

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198856

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL2-7050-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

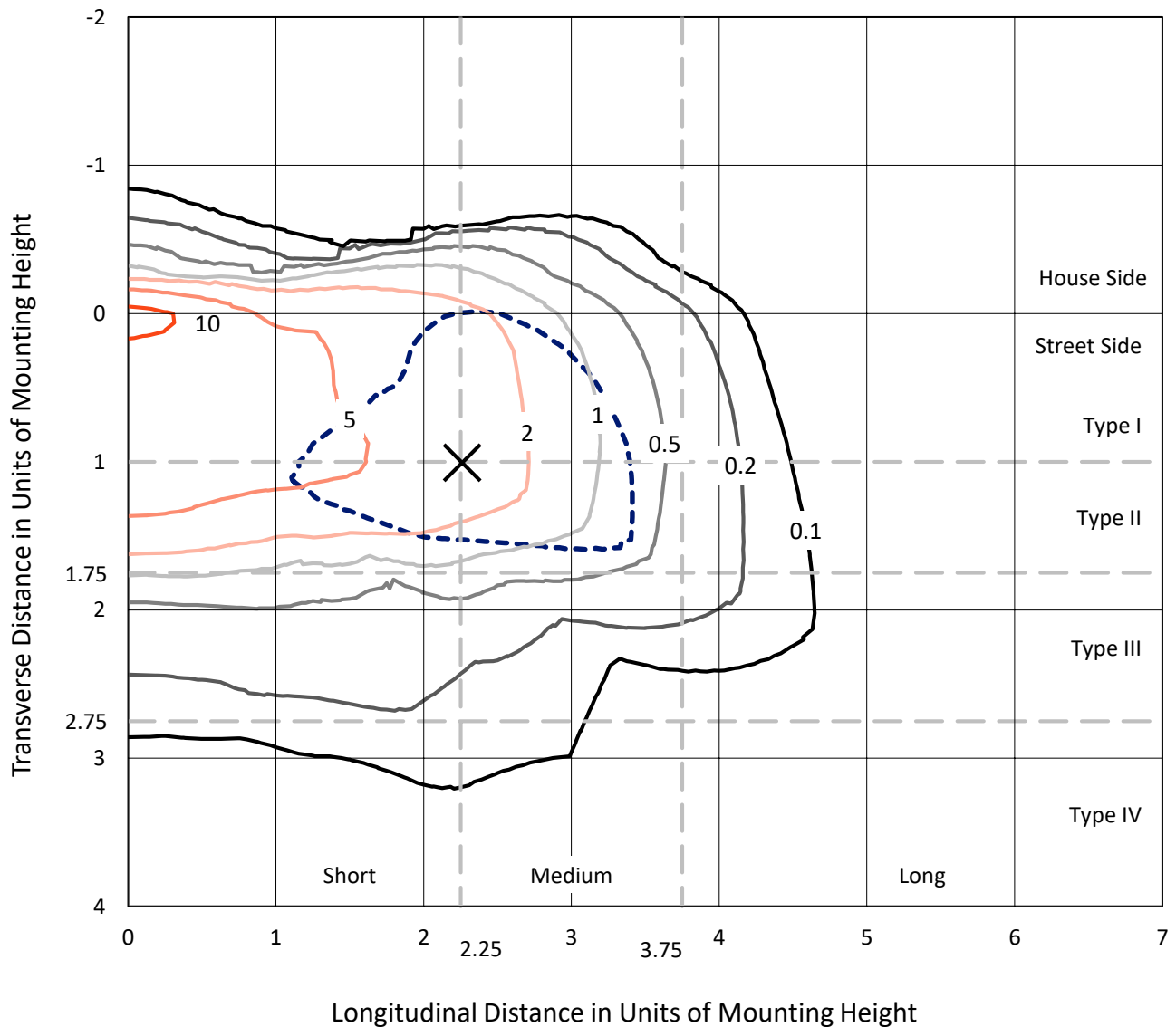


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

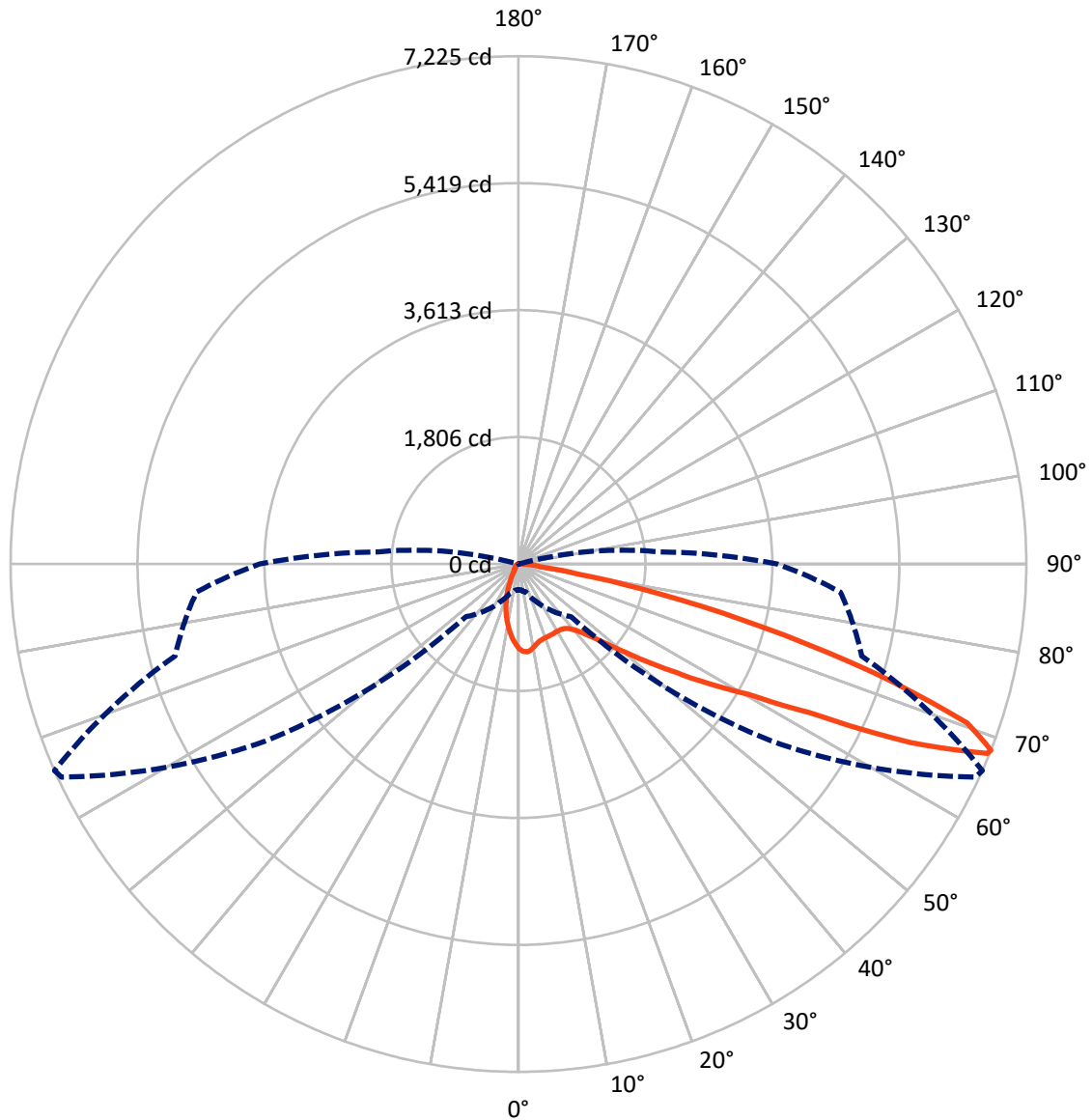


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.2	0.0	548.2
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	4863.8	0.0	4863.8
	% Fixture	89.9	0.0	89.9
Total	Lumens	5412.0	0.0	5412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.8
10°-20°	212.7	3.9
20°-30°	308.2	5.7
30°-40°	471.8	8.7
40°-50°	806.9	14.9
50°-60°	1262.3	23.3
60°-70°	1453.5	26.9
70°-80°	727.3	13.4
80°-90°	70.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5412.0	100.0
0°-180°	5412.0	100.0

Coefficient of Utilization



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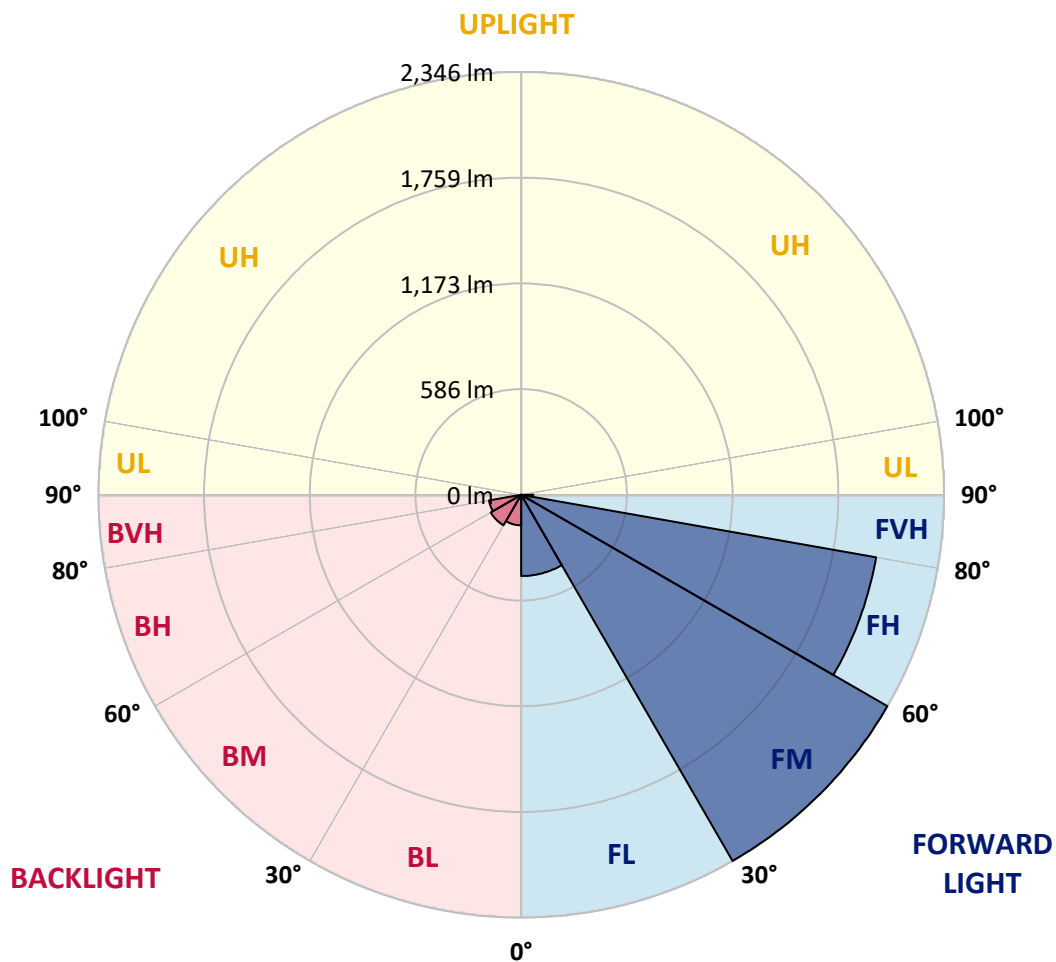
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.5	8.3			
FM (30°-60°)	2345.8	43.3			
FH (60°-80°)	1999.7	36.9			G2/5000
FVH (80°-90°)	67.8	1.3			G1/100
BL (0°-30°)	169.2	3.1	B1/500		
BM (30°-60°)	195.2	3.6	B0/220		
BH (60°-80°)	181.1	3.3	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1268.2	1269.0	1268.6	1269.9	1269.0	1262.7	1255.9	1241.4	1242.7	1224.0	1203.2
5°	1179.0	1186.2	1193.4	1200.6	1218.1	1233.4	1251.6	1255.9	1255.9	1239.7	1209.1
7.5°	1088.1	1088.5	1096.6	1106.3	1129.7	1157.7	1200.2	1238.5	1239.3	1243.6	1210.0
10°	1019.7	1021.8	1027.3	1037.9	1061.3	1088.9	1136.5	1196.4	1201.1	1232.5	1201.5
12.5°	966.5	969.1	975.0	987.4	1008.6	1037.1	1087.2	1155.6	1162.0	1221.9	1198.9
15°	925.8	929.2	933.8	946.2	969.1	999.3	1054.1	1128.4	1136.1	1217.6	1207.0
17.5°	908.8	908.8	908.3	916.8	939.8	970.4	1027.7	1114.0	1123.7	1221.0	1220.6
20°	916.0	914.7	905.8	903.7	917.7	948.3	1006.9	1104.6	1115.7	1227.4	1237.2
22.5°	954.2	951.7	931.7	915.1	910.9	931.3	992.9	1098.3	1111.4	1240.6	1259.3
25°	1035.4	1027.7	1000.1	962.7	929.2	927.0	983.1	1094.9	1108.9	1255.9	1283.5
27.5°	1140.7	1138.6	1094.4	1044.3	979.7	941.1	980.1	1092.3	1106.3	1266.9	1303.0
30°	1271.6	1272.4	1221.5	1156.0	1058.3	980.6	989.5	1091.0	1105.5	1267.8	1311.5
32.5°	1406.7	1407.5	1365.1	1295.0	1165.8	1048.5	1015.8	1097.0	1110.1	1264.4	1311.1
35°	1536.7	1538.0	1512.5	1456.0	1309.4	1142.9	1065.5	1117.4	1126.7	1266.5	1310.3
37.5°	1701.1	1706.2	1674.8	1622.1	1489.5	1281.4	1146.7	1158.6	1166.2	1283.9	1316.6
40°	1981.5	1974.7	1884.7	1795.4	1685.0	1450.0	1263.9	1229.5	1232.1	1329.0	1340.8
42.5°	2308.2	2299.7	2145.5	1991.7	1885.9	1653.5	1413.9	1338.3	1337.9	1404.6	1393.5
45°	2589.5	2584.4	2422.1	2216.9	2108.6	1878.3	1598.7	1495.1	1490.0	1535.4	1489.5
47.5°	2789.2	2784.9	2662.2	2456.5	2366.0	2125.6	1829.4	1708.8	1698.2	1706.6	1645.5
50°	2808.7	2804.1	2761.1	2629.0	2666.8	2488.4	2114.5	1988.8	1975.2	1962.0	1881.3
52.5°	2626.0	2625.6	2648.1	2639.6	2877.6	2955.3	2464.2	2335.0	2318.9	2285.3	2205.0
55°	2252.6	2250.5	2335.9	2459.9	2872.9	3437.1	2997.4	2747.1	2725.9	2658.8	2553.4
57.5°	1645.9	1634.8	1813.3	2076.3	2671.1	3647.8	3844.1	3259.1	3223.8	3011.0	2848.7
60°	908.8	913.0	1142.4	1453.9	2193.1	3606.2	4623.3	3856.0	3763.4	3314.7	3151.2
62.5°	509.4	520.0	690.8	944.9	1398.2	3268.4	5041.3	4883.3	4660.2	3669.1	3533.5
65°	385.3	391.7	477.5	729.1	881.6	2284.0	5108.0	6319.7	6127.3	4206.1	4142.3
67.5°	362.8	367.9	410.0	604.6	803.0	1184.5	4605.9	7169.5	7193.7	4938.5	4613.9
68°	365.4	371.7	413.8	581.6	801.7	1059.6	4391.7	7173.7	7225.1	5056.6	4597.8
70°	335.6	337.3	437.6	570.6	777.1	834.8	3177.1	6682.1	6774.3	5197.3	4173.8
72.5°	128.3	128.7	196.3	494.1	814.0	839.5	1600.4	5281.4	5286.1	4523.0	3254.0
75°	66.7	56.1	61.6	154.6	777.5	818.3	803.0	3606.2	3583.7	3059.0	1993.9
77.5°	45.9	39.1	41.2	53.5	323.3	817.8	579.9	2073.7	2069.1	1301.3	568.9
80°	25.9	22.5	24.6	45.0	113.4	767.7	540.4	891.3	839.9	228.6	92.2
82.5°	13.2	11.0	13.2	37.8	70.5	483.1	525.5	349.7	311.4	54.4	59.9
85°	3.4	3.4	6.4	26.3	43.8	158.5	471.2	252.4	226.9	23.8	42.5
87.5°	0.8	0.4	2.5	9.8	15.7	34.4	261.3	140.6	121.1	12.3	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1194.7	1182.8	1159.4	1133.1	1114.4	1094.0	1082.1	1067.7	1056.6	1046.8	1054.1
5°	1190.4	1167.5	1115.7	1057.5	1008.6	961.9	927.0	893.9	868.8	853.1	859.5
7.5°	1179.4	1145.4	1061.3	970.4	890.5	815.3	754.1	699.3	656.8	633.9	641.1
10°	1160.7	1112.7	999.7	873.5	761.8	655.6	564.6	483.1	421.5	392.6	399.4
12.5°	1147.1	1083.8	936.0	780.0	633.0	482.2	361.6	268.1	220.1	191.2	193.7
15°	1141.2	1061.3	876.5	681.5	492.4	309.7	195.4	141.5	124.9	119.0	119.4
17.5°	1142.0	1043.4	820.0	579.1	350.5	178.0	119.8	107.9	105.4	104.1	104.1
20°	1144.1	1025.6	761.3	472.4	224.3	114.7	99.8	96.0	94.7	93.0	93.5
22.5°	1150.5	1012.0	702.3	365.4	138.1	93.5	88.4	85.0	82.8	80.3	80.7
25°	1160.3	1001.8	644.1	263.0	97.3	81.6	76.9	72.2	68.4	65.4	65.9
27.5°	1166.2	987.4	582.1	179.3	80.7	71.4	65.0	58.6	54.4	51.8	51.4
30°	1162.0	964.0	511.5	117.7	71.4	61.6	54.0	46.7	42.5	40.4	40.4
32.5°	1150.5	933.8	433.8	85.8	63.3	53.1	43.8	37.4	34.4	33.1	33.6
35°	1137.3	902.4	350.9	72.7	56.9	45.0	35.7	30.6	29.3	28.9	28.9
37.5°	1130.1	875.2	271.5	65.9	51.0	37.4	29.3	26.3	25.1	25.1	25.1
40°	1138.2	854.4	201.0	60.8	45.0	31.0	24.6	22.5	22.1	22.1	22.1
42.5°	1172.6	847.2	147.0	56.5	39.1	25.9	21.2	19.5	19.1	19.5	19.5
45°	1239.7	862.9	111.3	52.3	33.6	21.2	18.3	17.0	17.0	17.4	17.4
47.5°	1353.6	903.2	91.3	48.0	28.0	17.8	15.7	14.9	14.9	15.3	15.3
50°	1530.3	978.0	82.0	43.3	23.4	15.3	13.2	12.7	12.7	13.2	13.6
52.5°	1798.8	1120.3	77.3	38.7	19.1	12.7	11.0	10.6	11.0	11.5	11.5
55°	2097.5	1302.6	71.8	34.0	16.1	10.6	8.9	8.9	9.3	10.2	10.2
57.5°	2375.8	1478.5	66.7	28.0	14.0	8.5	7.2	7.2	8.1	8.9	8.9
60°	2669.8	1651.0	59.9	22.5	11.9	6.8	5.9	5.9	7.2	8.1	8.5
62.5°	3033.0	1851.5	51.0	17.8	9.3	5.1	4.2	5.5	6.8	8.1	8.1
65°	3558.2	2100.9	39.9	14.0	7.2	3.8	3.4	5.1	6.4	7.6	8.1
67.5°	3748.9	2069.1	30.2	11.5	5.5	3.0	3.0	4.7	6.4	7.6	7.6
68°	3679.3	1999.4	28.9	11.0	5.1	3.0	3.0	4.7	6.4	7.6	7.6
70°	3206.0	1634.4	23.8	8.5	4.2	2.5	2.5	4.2	6.4	7.2	7.6
72.5°	2400.4	1085.9	20.4	5.5	3.8	2.5	2.1	4.2	5.9	7.2	7.2
75°	1377.0	450.8	17.4	4.2	3.4	2.1	2.1	3.8	5.9	7.2	7.2
77.5°	389.2	105.4	14.0	3.4	3.0	2.1	1.7	3.8	5.5	6.8	6.8
80°	71.4	31.4	11.0	3.0	2.5	2.1	1.7	3.8	5.5	6.8	6.8
82.5°	47.2	14.9	8.1	3.0	2.5	2.1	1.7	3.4	5.1	6.4	6.4
85°	35.3	10.6	5.1	3.0	2.5	2.1	1.7	3.4	5.1	6.4	6.4
87.5°	19.5	4.7	3.8	3.4	3.0	2.1	1.7	3.0	4.7	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)