

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: P198868

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7050-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4148 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

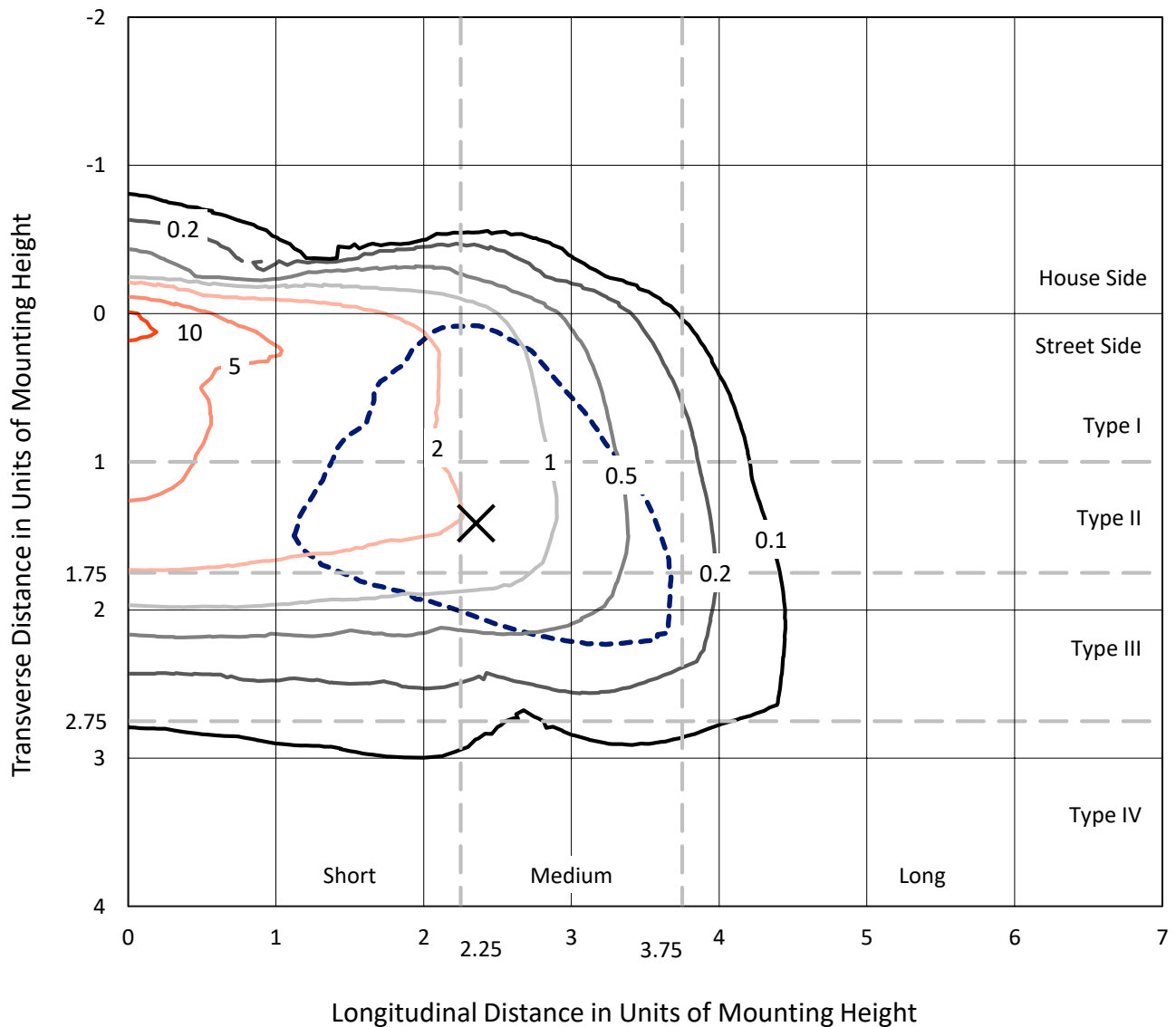


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

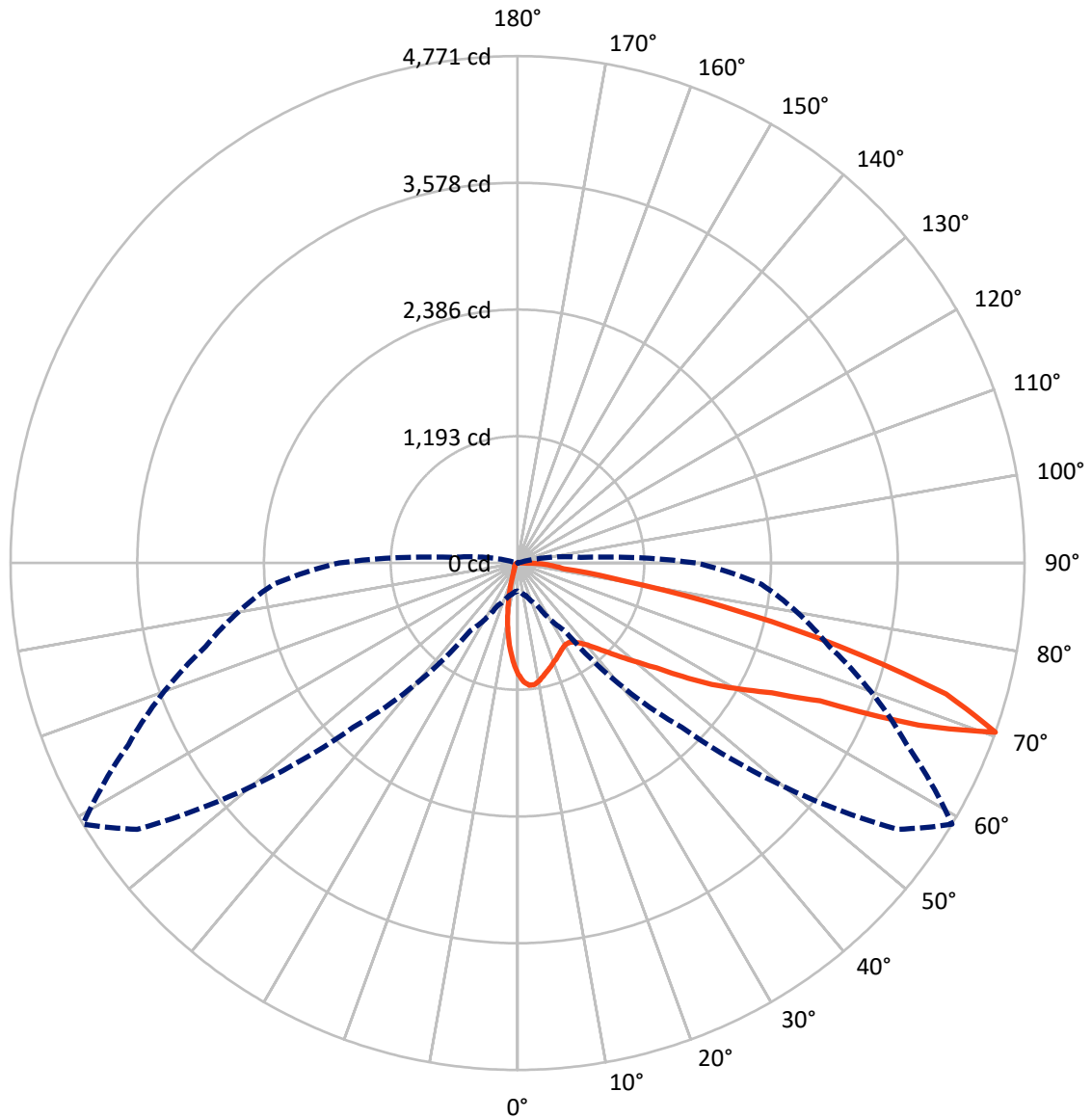


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.9	0.0	318.9
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3829.1	0.0	3829.1
	% Fixture	92.3	0.0	92.3
Total	Lumens	4148.0	0.0	4148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	2.1
10°-20°	180.9	4.4
20°-30°	244.9	5.9
30°-40°	353.4	8.5
40°-50°	586.9	14.1
50°-60°	897.8	21.6
60°-70°	1116.6	26.9
70°-80°	617.3	14.9
80°-90°	64.0	1.5
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°	4148.0	100.0
0°-180°	4148.0	100.0

Coefficient of Utilization



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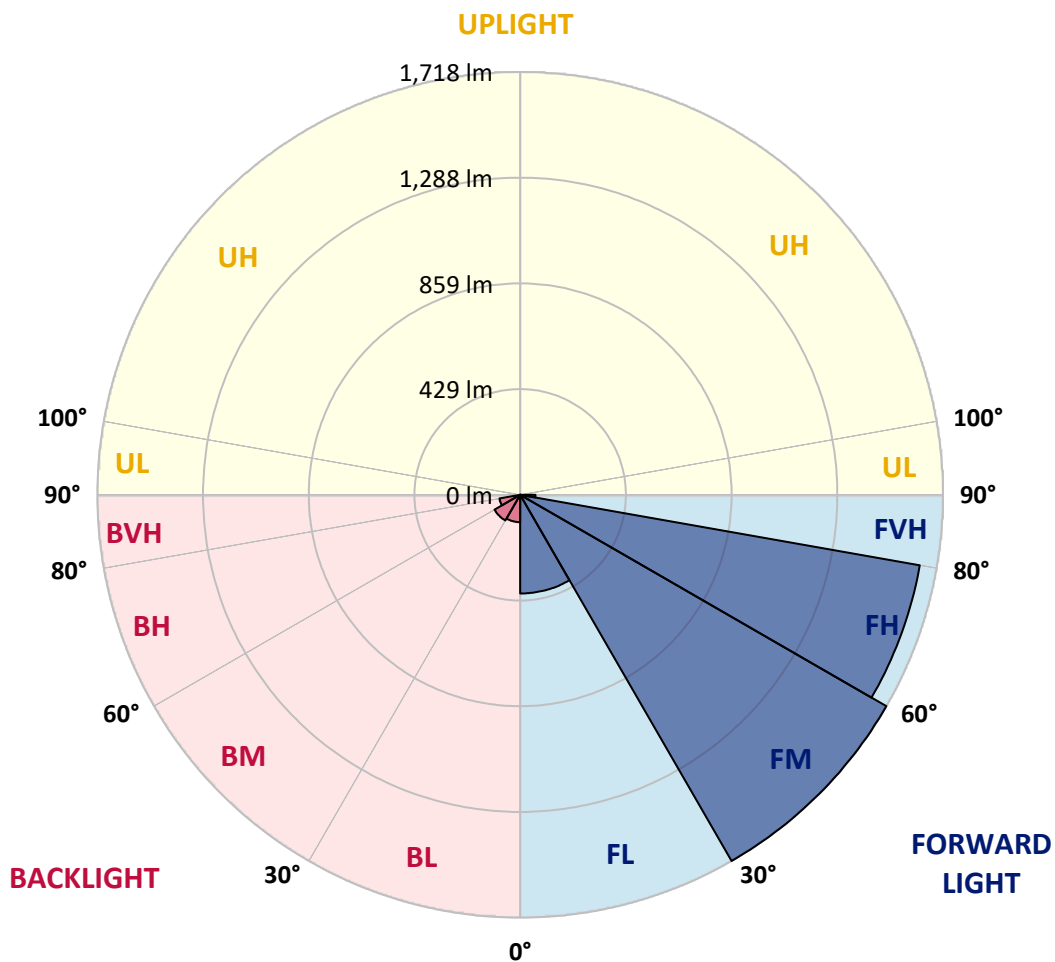
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.9	9.7			
FM	(30°-60°)	1717.7	41.4			
FH	(60°-80°)	1648.3	39.7			G1/1800
FVH	(80°-90°)	62.2	1.5			G1/100
BL	(0°-30°)	111.1	2.7	B1/500		
BM	(30°-60°)	120.4	2.9	B0/220		
BH	(60°-80°)	85.5	2.1	B0/110		G0/110
BVH	(80°-90°)	1.9	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9
2.5°	1185.6	1183.7	1175.9	1174.4	1165.6	1148.1	1127.7	1119.6	1103.0	1076.7	1047.6
5°	1205.3	1206.3	1206.9	1203.5	1202.2	1187.8	1165.3	1155.6	1133.4	1090.2	1037.0
7.5°	1131.5	1134.0	1141.8	1145.3	1160.3	1165.9	1161.2	1155.0	1137.4	1086.4	1011.6
10°	1053.6	1058.3	1066.7	1072.3	1090.8	1105.8	1124.9	1126.5	1122.7	1073.9	983.2
12.5°	986.6	991.0	1000.4	1011.6	1030.4	1049.8	1078.3	1088.3	1100.8	1065.8	962.8
15°	929.0	930.3	939.4	953.4	978.2	1004.8	1038.6	1053.3	1077.7	1062.6	947.2
17.5°	878.7	879.0	884.9	897.7	927.8	962.8	1002.3	1021.7	1052.6	1058.3	933.4
20°	845.5	845.2	845.5	852.4	879.0	920.6	968.5	988.8	1028.5	1052.9	919.3
22.5°	834.2	832.7	825.5	823.0	839.9	876.5	933.7	960.3	1006.9	1051.4	909.0
25°	848.0	847.1	831.7	817.3	818.9	841.7	898.4	930.9	990.1	1057.0	906.5
27.5°	892.4	890.5	867.1	838.9	821.1	825.1	872.1	906.2	976.6	1070.8	909.9
30°	950.6	950.9	925.9	891.8	849.9	826.7	858.0	890.2	967.5	1091.4	917.5
32.5°	1015.4	1015.1	997.2	957.8	904.3	855.5	864.3	891.5	968.8	1121.8	931.9
35°	1082.4	1078.9	1073.0	1038.2	975.7	905.9	892.7	912.8	981.9	1161.8	956.3
37.5°	1159.7	1158.4	1164.3	1127.7	1063.9	980.0	942.8	956.3	1015.1	1221.0	995.7
40°	1282.6	1275.7	1278.6	1228.8	1163.4	1079.9	1012.9	1016.3	1068.0	1299.2	1058.0
42.5°	1517.0	1489.1	1436.9	1343.6	1272.9	1190.6	1104.6	1098.6	1142.8	1394.0	1139.9
45°	1797.1	1765.1	1633.4	1470.4	1382.4	1309.5	1217.9	1201.9	1234.7	1507.0	1245.7
47.5°	2030.8	1996.4	1821.8	1602.7	1493.8	1432.2	1343.3	1324.6	1344.9	1638.1	1372.7
50°	2110.6	2091.5	1938.2	1712.9	1606.2	1569.9	1500.7	1469.4	1474.4	1779.5	1521.1
52.5°	2074.0	2067.4	1964.8	1788.3	1710.1	1722.0	1673.1	1640.3	1634.7	1934.1	1685.0
55°	1996.7	1993.6	1943.5	1830.2	1801.7	1861.2	1915.0	1886.5	1833.3	2098.4	1820.5
57.5°	1886.2	1898.1	1934.1	1911.0	1914.4	2008.3	2139.7	2154.4	2074.9	2229.2	1921.0
60°	1591.2	1623.1	1788.0	1997.6	2158.2	2253.0	2380.3	2407.9	2279.6	2318.7	2037.1
62.5°	1176.2	1221.9	1456.9	1842.1	2292.4	2718.3	2700.4	2688.2	2474.8	2438.5	2248.3
65°	690.9	744.4	943.1	1439.4	2089.9	3017.4	3298.1	3129.1	2772.4	2687.6	2584.7
67.5°	344.2	344.5	434.3	759.7	1544.5	2808.7	4170.5	4072.9	3405.1	3054.6	2717.3
70°	264.7	271.9	321.4	441.5	781.0	2187.6	4370.4	4771.3	4040.9	3038.4	2305.5
72.5°	224.4	229.1	286.0	384.3	583.9	1201.0	3783.4	4217.4	3856.0	2567.1	1699.4
75°	161.5	165.2	253.1	348.6	537.6	595.8	2595.3	3127.9	2893.2	1805.8	935.3
77.5°	40.1	39.7	88.2	282.9	480.9	496.3	1489.1	2005.8	1660.0	739.4	240.3
80°	17.8	17.2	20.0	59.5	447.5	468.4	654.9	1012.9	636.8	119.8	73.5
82.5°	12.5	11.9	12.5	21.9	149.6	434.6	395.8	439.0	233.1	41.0	31.3
85°	4.1	3.8	6.9	18.5	41.9	250.6	386.1	327.9	173.4	17.5	21.0
87.5°	0.6	0.6	2.5	10.0	12.2	83.5	226.5	227.2	77.9	10.3	9.4
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°	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9	1048.9
2.5°	1032.9	1014.5	988.5	962.5	939.0	915.0	895.6	886.5	882.4	876.8	864.6
5°	1009.1	975.7	918.7	862.7	810.4	760.4	717.5	693.1	666.8	665.6	652.7
7.5°	971.0	923.4	833.6	746.6	666.8	590.5	524.8	482.2	453.1	434.9	422.4
10°	928.4	867.4	748.5	626.1	517.6	415.5	331.1	276.0	242.5	225.6	215.9
12.5°	894.6	818.0	664.6	510.7	374.6	257.5	179.0	138.9	121.1	114.2	111.1
15°	865.5	772.6	586.1	407.4	250.0	148.0	103.6	90.4	87.6	87.6	87.3
17.5°	836.1	728.8	509.7	306.0	157.4	97.0	81.7	79.8	80.1	81.0	81.0
20°	808.3	687.2	436.2	218.1	103.3	77.6	74.2	73.5	74.5	75.7	75.4
22.5°	785.7	650.5	367.4	149.9	79.5	70.4	68.2	67.3	67.9	68.8	68.5
25°	769.8	619.3	304.2	104.5	69.2	64.1	61.6	60.4	59.8	60.4	60.1
27.5°	760.1	593.0	244.7	78.5	62.0	57.9	54.8	52.3	50.7	50.7	50.1
30°	753.8	568.2	191.8	65.1	56.0	51.6	47.2	43.8	41.3	40.7	40.4
32.5°	753.5	547.0	143.3	57.6	50.4	45.4	40.1	35.7	32.9	32.2	31.9
35°	761.3	529.8	105.5	51.9	45.4	39.4	33.5	28.8	26.3	26.3	26.0
37.5°	781.7	519.7	79.8	47.6	41.3	34.4	28.2	23.8	21.6	22.2	22.2
40°	819.5	517.9	65.1	44.1	37.9	30.0	22.8	19.4	18.5	19.4	19.4
42.5°	877.4	527.9	57.9	41.6	34.7	25.7	19.1	16.6	16.3	17.2	17.2
45°	952.8	547.6	53.8	39.4	31.3	21.3	16.0	14.4	14.1	15.3	15.3
47.5°	1044.2	574.2	50.1	36.9	27.8	17.5	13.5	12.2	12.2	13.5	13.8
50°	1152.5	610.2	46.3	34.4	25.0	14.7	11.3	10.3	10.6	11.9	12.2
52.5°	1277.0	654.3	42.9	32.2	21.9	11.9	9.4	8.8	9.1	10.3	10.6
55°	1384.3	692.8	38.8	30.0	17.8	9.7	7.8	7.5	7.8	9.4	9.4
57.5°	1477.9	729.7	35.0	26.6	14.1	7.8	6.3	6.3	6.9	8.4	8.8
60°	1602.1	787.9	31.9	22.5	10.6	5.9	5.0	5.3	6.3	7.5	7.8
62.5°	1822.1	886.8	27.8	18.8	7.8	4.7	4.1	4.4	5.6	7.2	7.5
65°	2097.4	980.4	23.2	15.6	5.9	3.4	3.1	4.1	5.6	7.2	7.5
67.5°	2069.3	852.7	18.1	12.5	4.4	2.8	2.5	3.8	5.3	7.2	7.5
70°	1678.1	597.7	13.5	8.4	3.4	2.5	2.5	3.8	5.3	6.9	7.2
72.5°	1164.0	332.6	10.3	5.6	3.1	2.5	2.2	3.4	5.0	6.9	7.2
75°	553.9	102.0	8.1	4.1	2.8	2.2	1.9	3.4	5.0	6.9	7.2
77.5°	106.4	26.0	6.6	3.4	2.5	2.2	1.9	3.1	5.0	6.6	6.9
80°	36.0	11.6	5.3	3.1	2.5	2.2	1.9	3.1	4.7	6.3	6.6
82.5°	19.7	6.6	4.7	2.8	2.5	1.9	1.6	2.8	4.4	6.3	6.6
85°	15.3	4.7	3.8	2.8	2.5	1.9	1.6	2.8	4.4	5.9	6.3
87.5°	7.8	3.4	3.1	2.8	2.5	1.9	1.6	2.5	4.1	5.6	6.3
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)