

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: P199190

Luminaire Tested: **XNV-AF-01-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199190
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-SL3-8030-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4189 lumens
Efficiency: N/A
Efficacy: 72.2 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

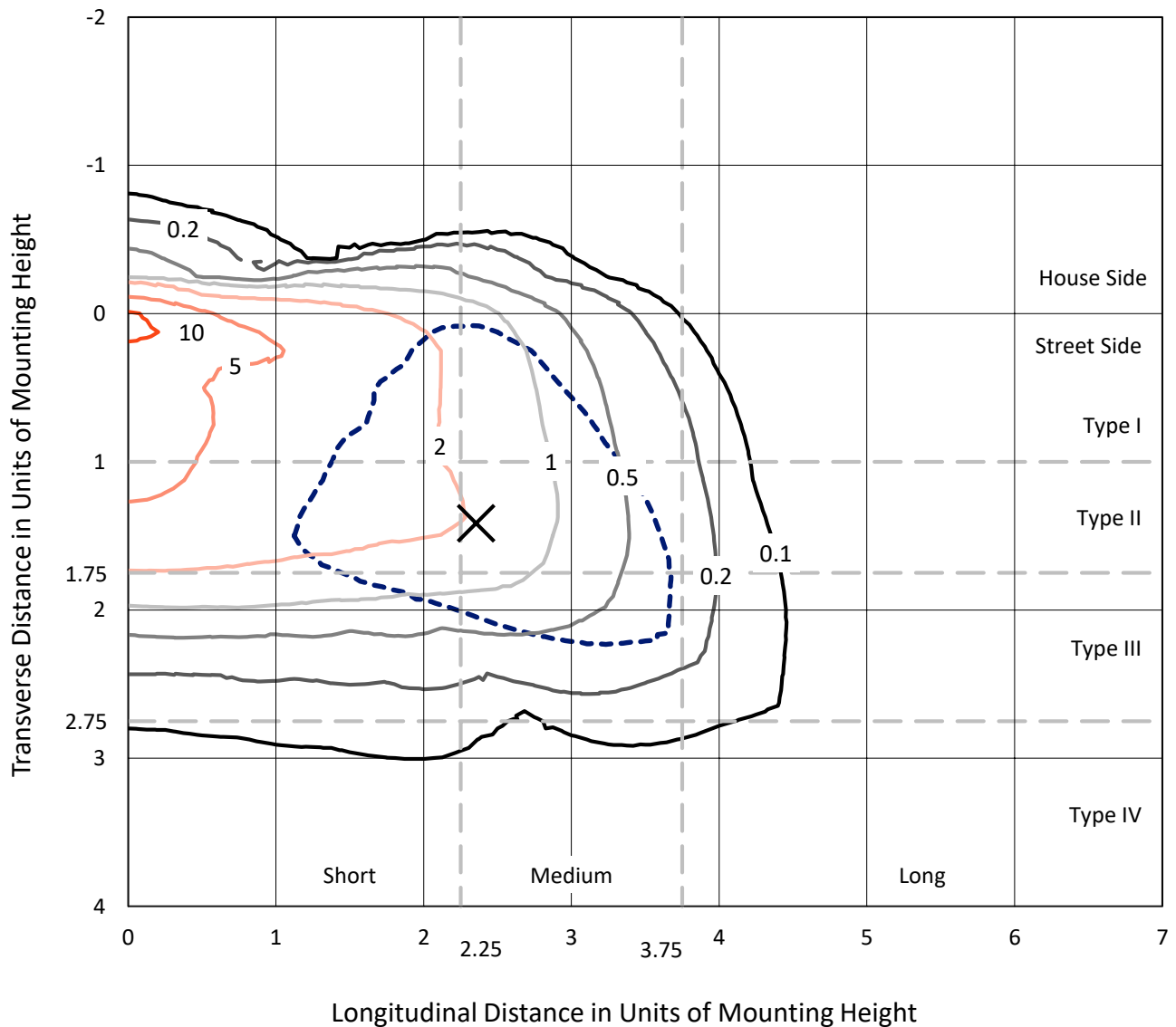
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

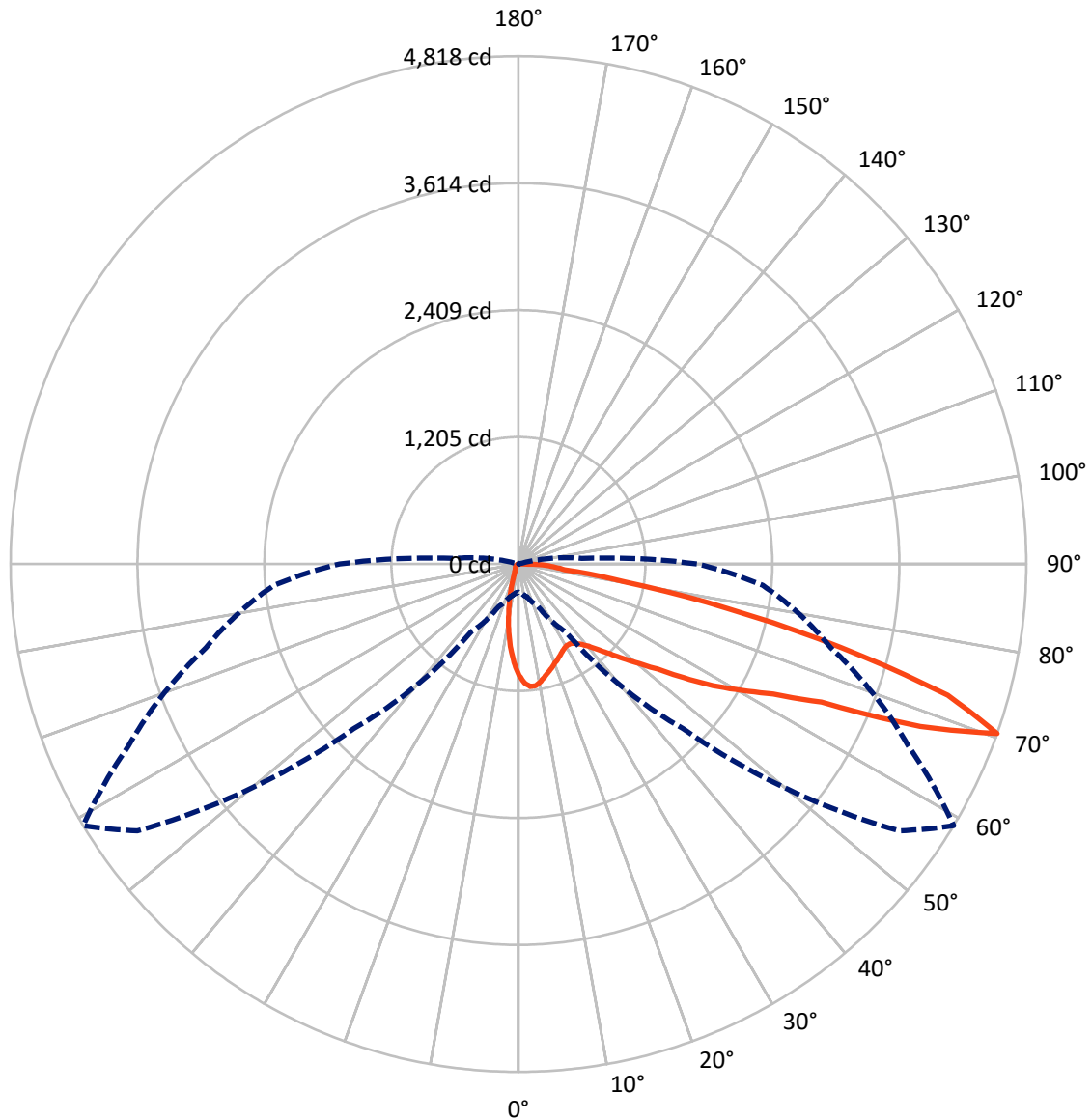
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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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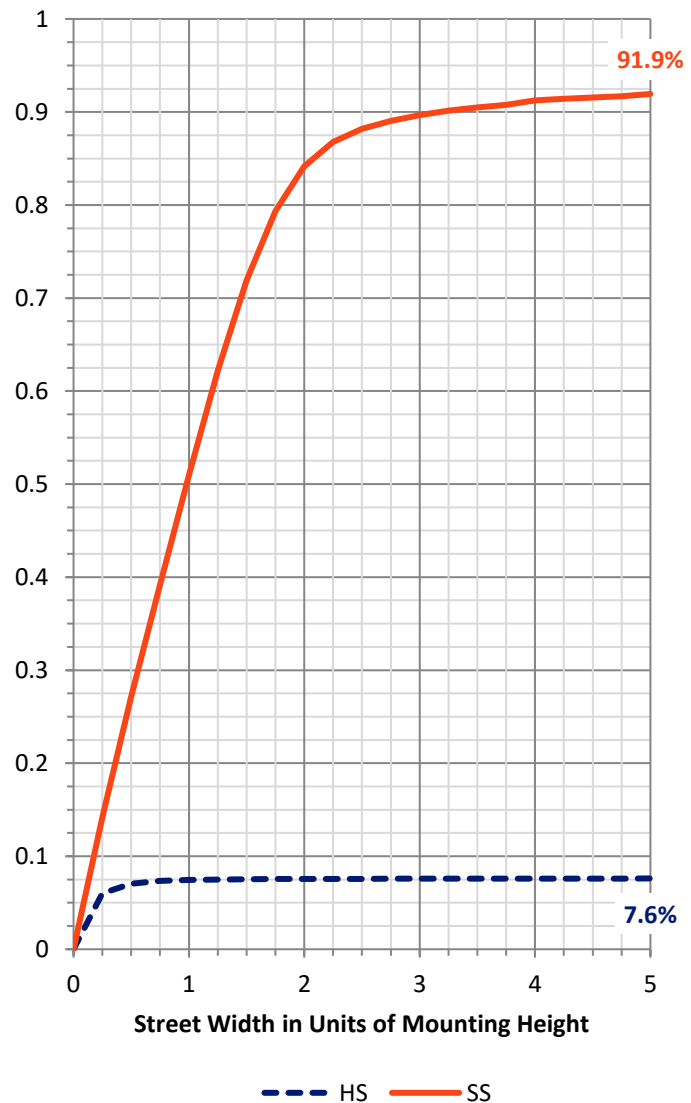
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	322.0	0.0	322.0
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	3867.0	0.0	3867.0
	% Fixture	92.3	0.0	92.3
Total	Lumens	4189.0	0.0	4189.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	2.1
10°-20°	182.7	4.4
20°-30°	247.3	5.9
30°-40°	356.9	8.5
40°-50°	592.7	14.1
50°-60°	906.6	21.6
60°-70°	1127.6	26.9
70°-80°	623.4	14.9
80°-90°	64.6	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°	4189.0	100.0
0°-180°	4189.0	100.0



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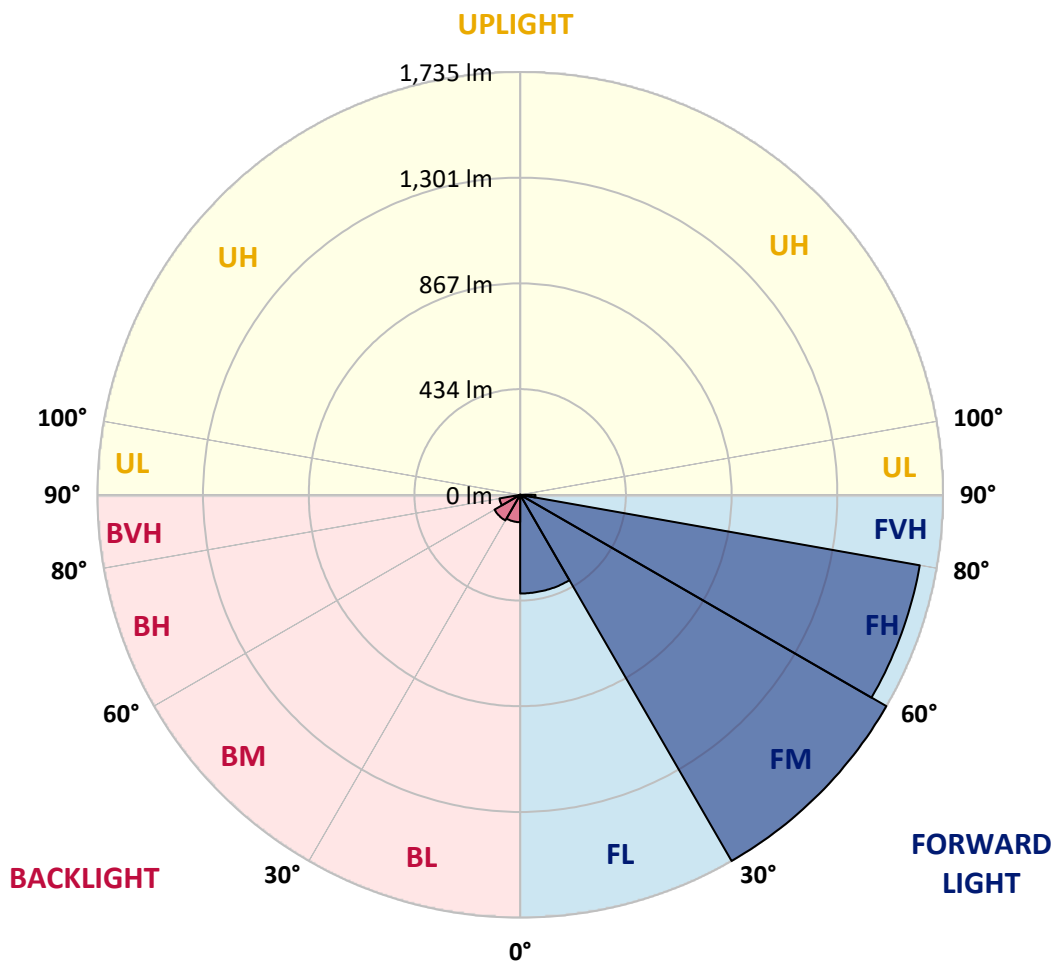
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.9	9.7			
FM	(30°-60°)	1734.7	41.4			
FH	(60°-80°)	1664.6	39.7			G1/1800
FVH	(80°-90°)	62.8	1.5			G1/100
BL	(0°-30°)	112.2	2.7	B1/500		
BM	(30°-60°)	121.5	2.9	B0/220		
BH	(60°-80°)	86.4	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°	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2
2.5°	1197.3	1195.4	1187.5	1186.0	1177.1	1159.4	1138.9	1130.7	1113.9	1087.4	1058.0
5°	1217.2	1218.2	1218.8	1215.4	1214.1	1199.6	1176.8	1167.0	1144.6	1101.0	1047.2
7.5°	1142.7	1145.2	1153.1	1156.6	1171.7	1177.4	1172.7	1166.4	1148.7	1097.2	1021.6
10°	1064.0	1068.7	1077.3	1082.9	1101.6	1116.8	1136.0	1137.6	1133.8	1084.5	992.9
12.5°	996.4	1000.8	1010.3	1021.6	1040.6	1060.2	1089.0	1099.1	1111.7	1076.3	972.3
15°	938.2	939.5	948.6	962.9	987.8	1014.7	1048.8	1063.7	1088.3	1073.2	956.5
17.5°	887.3	887.7	893.7	906.6	937.0	972.3	1012.2	1031.8	1063.0	1068.7	942.6
20°	853.8	853.5	853.8	860.8	887.7	929.7	978.0	998.6	1038.7	1063.4	928.4
22.5°	842.5	840.9	833.6	831.1	848.2	885.1	943.0	969.8	1016.9	1061.8	918.0
25°	856.4	855.4	839.9	825.4	827.0	850.1	907.2	940.1	999.8	1067.5	915.5
27.5°	901.2	899.3	875.6	847.2	829.2	833.3	880.7	915.1	986.3	1081.4	918.9
30°	960.0	960.3	935.1	900.6	858.3	834.9	866.5	899.0	977.1	1102.2	926.5
32.5°	1025.4	1025.1	1007.1	967.3	913.3	864.0	872.8	900.3	978.4	1132.9	941.1
35°	1093.1	1089.6	1083.6	1048.5	985.3	914.8	901.6	921.8	991.6	1173.3	965.7
37.5°	1171.1	1169.8	1175.9	1138.9	1074.4	989.7	952.1	965.7	1025.1	1233.0	1005.5
40°	1295.3	1288.4	1291.2	1240.9	1174.9	1090.5	1022.9	1026.4	1078.5	1312.1	1068.4
42.5°	1532.0	1503.9	1451.1	1356.9	1285.5	1202.4	1115.5	1109.5	1154.0	1407.8	1151.2
45°	1814.8	1782.6	1649.5	1484.9	1396.1	1322.5	1229.9	1213.8	1247.0	1521.9	1258.0
47.5°	2050.9	2016.1	1839.8	1618.6	1508.6	1446.4	1356.6	1337.6	1358.2	1654.3	1386.3
50°	2131.5	2112.2	1957.3	1729.8	1622.1	1585.4	1515.6	1484.0	1489.0	1797.1	1536.1
52.5°	2094.5	2087.8	1984.2	1806.0	1727.0	1739.0	1689.7	1656.5	1650.8	1953.2	1701.7
55°	2016.4	2013.3	1962.7	1848.3	1819.6	1879.6	1933.9	1905.2	1851.5	2119.1	1838.5
57.5°	1904.9	1916.9	1953.2	1929.8	1933.3	2028.1	2160.8	2175.7	2095.4	2251.2	1940.0
60°	1606.9	1639.1	1805.7	2017.4	2179.5	2275.2	2403.8	2431.7	2302.1	2341.6	2057.2
62.5°	1187.9	1234.0	1471.3	1860.3	2315.0	2745.1	2727.1	2714.8	2499.3	2462.6	2270.5
65°	697.7	751.8	952.4	1453.6	2110.6	3047.2	3330.7	3160.0	2799.8	2714.2	2610.2
67.5°	347.6	347.9	438.6	767.3	1559.8	2836.5	4211.7	4113.1	3438.8	3084.8	2744.2
70°	267.3	274.6	324.5	445.9	788.7	2209.2	4413.6	4818.4	4080.9	3068.4	2328.3
72.5°	226.6	231.3	288.8	388.1	589.7	1212.8	3820.8	4259.1	3894.1	2592.5	1716.2
75°	163.1	166.9	255.6	352.0	542.9	601.7	2620.9	3158.8	2921.8	1823.7	944.5
77.5°	40.4	40.1	89.1	285.7	485.7	501.2	1503.9	2025.6	1676.4	746.7	242.7
80°	18.0	17.4	20.2	60.0	451.9	473.1	661.4	1022.9	643.1	121.0	74.3
82.5°	12.6	12.0	12.6	22.1	151.1	438.9	399.7	443.4	235.4	41.4	31.6
85°	4.1	3.8	7.0	18.6	42.3	253.1	389.9	331.2	175.1	17.7	21.2
87.5°	0.6	0.6	2.5	10.1	12.3	84.4	228.8	229.4	78.7	10.4	9.5
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°	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2	1059.2
2.5°	1043.1	1024.5	998.3	972.0	948.3	924.0	904.4	895.2	891.1	885.4	873.1
5°	1019.1	985.3	927.8	871.2	818.5	767.9	724.6	700.0	673.4	672.1	659.2
7.5°	980.6	932.5	841.8	754.0	673.4	596.3	529.9	487.0	457.6	439.2	426.6
10°	937.6	876.0	755.9	632.3	522.7	419.7	334.3	278.7	244.9	227.8	218.0
12.5°	903.5	826.0	671.2	515.7	378.3	260.1	180.8	140.3	122.3	115.3	112.2
15°	874.1	780.2	591.9	411.4	252.5	149.5	104.6	91.3	88.5	88.5	88.2
17.5°	844.4	736.0	514.8	309.1	159.0	98.0	82.5	80.6	80.9	81.8	81.8
20°	816.2	693.9	440.5	220.3	104.3	78.4	74.9	74.3	75.2	76.5	76.2
22.5°	793.5	657.0	371.0	151.4	80.3	71.1	68.9	67.9	68.6	69.5	69.2
25°	777.4	625.4	307.2	105.5	69.8	64.8	62.3	61.0	60.4	61.0	60.7
27.5°	767.6	598.8	247.1	79.3	62.6	58.5	55.3	52.8	51.2	51.2	50.6
30°	761.3	573.9	193.7	65.7	56.6	52.1	47.7	44.2	41.7	41.1	40.8
32.5°	760.9	552.4	144.7	58.1	50.9	45.8	40.4	36.0	33.2	32.5	32.2
35°	768.8	535.0	106.5	52.5	45.8	39.8	33.8	29.1	26.5	26.5	26.2
37.5°	789.4	524.9	80.6	48.0	41.7	34.8	28.4	24.0	21.8	22.4	22.4
40°	827.6	523.0	65.7	44.6	38.2	30.3	23.1	19.6	18.6	19.6	19.6
42.5°	886.1	533.1	58.5	42.0	35.1	25.9	19.3	16.7	16.4	17.4	17.4
45°	962.2	553.0	54.4	39.8	31.6	21.5	16.1	14.5	14.2	15.5	15.5
47.5°	1054.5	579.9	50.6	37.3	28.1	17.7	13.6	12.3	12.3	13.6	13.9
50°	1163.8	616.2	46.8	34.8	25.3	14.9	11.4	10.4	10.7	12.0	12.3
52.5°	1289.6	660.8	43.3	32.5	22.1	12.0	9.5	8.8	9.2	10.4	10.7
55°	1398.0	699.6	39.2	30.3	18.0	9.8	7.9	7.6	7.9	9.5	9.5
57.5°	1492.5	736.9	35.4	26.9	14.2	7.9	6.3	6.3	7.0	8.5	8.8
60°	1617.9	795.7	32.2	22.8	10.7	6.0	5.1	5.4	6.3	7.6	7.9
62.5°	1840.1	895.6	28.1	19.0	7.9	4.7	4.1	4.4	5.7	7.3	7.6
65°	2118.2	990.0	23.4	15.8	6.0	3.5	3.2	4.1	5.7	7.3	7.6
67.5°	2089.7	861.1	18.3	12.6	4.4	2.8	2.5	3.8	5.4	7.3	7.6
70°	1694.7	603.6	13.6	8.5	3.5	2.5	2.5	3.8	5.4	7.0	7.3
72.5°	1175.5	335.9	10.4	5.7	3.2	2.5	2.2	3.5	5.1	7.0	7.3
75°	559.3	103.0	8.2	4.1	2.8	2.2	1.9	3.5	5.1	7.0	7.3
77.5°	107.4	26.2	6.6	3.5	2.5	2.2	1.9	3.2	5.1	6.6	7.0
80°	36.3	11.7	5.4	3.2	2.5	2.2	1.9	3.2	4.7	6.3	6.6
82.5°	19.9	6.6	4.7	2.8	2.5	1.9	1.6	2.8	4.4	6.3	6.6
85°	15.5	4.7	3.8	2.8	2.5	1.9	1.6	2.8	4.4	6.0	6.3
87.5°	7.9	3.5	3.2	2.8	2.5	1.9	1.6	2.5	4.1	5.7	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)