

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: McGRAW-EDISON

Report Number: P300660

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-AFL-7027-800-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3253.4 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

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: 25 FT

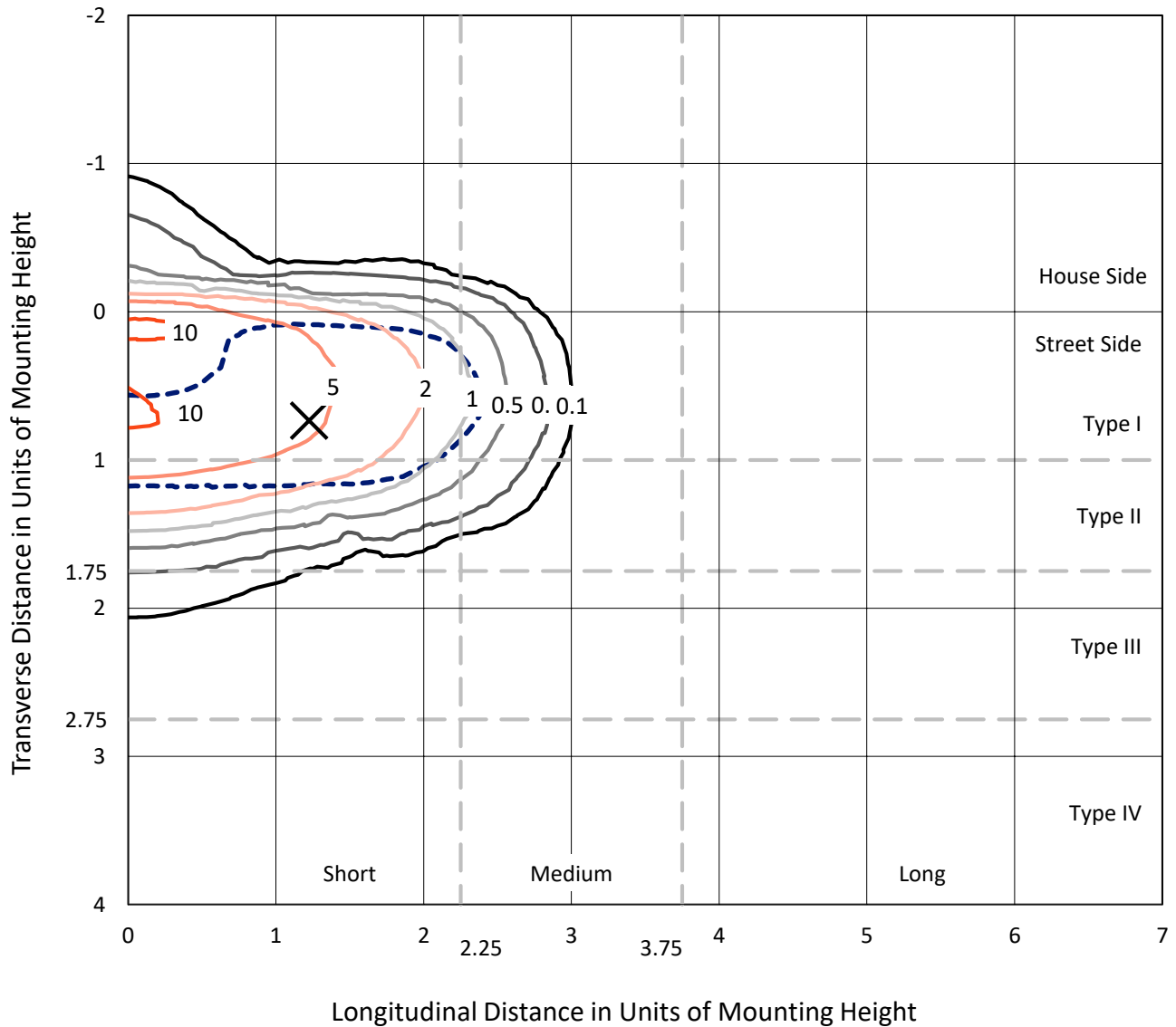


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

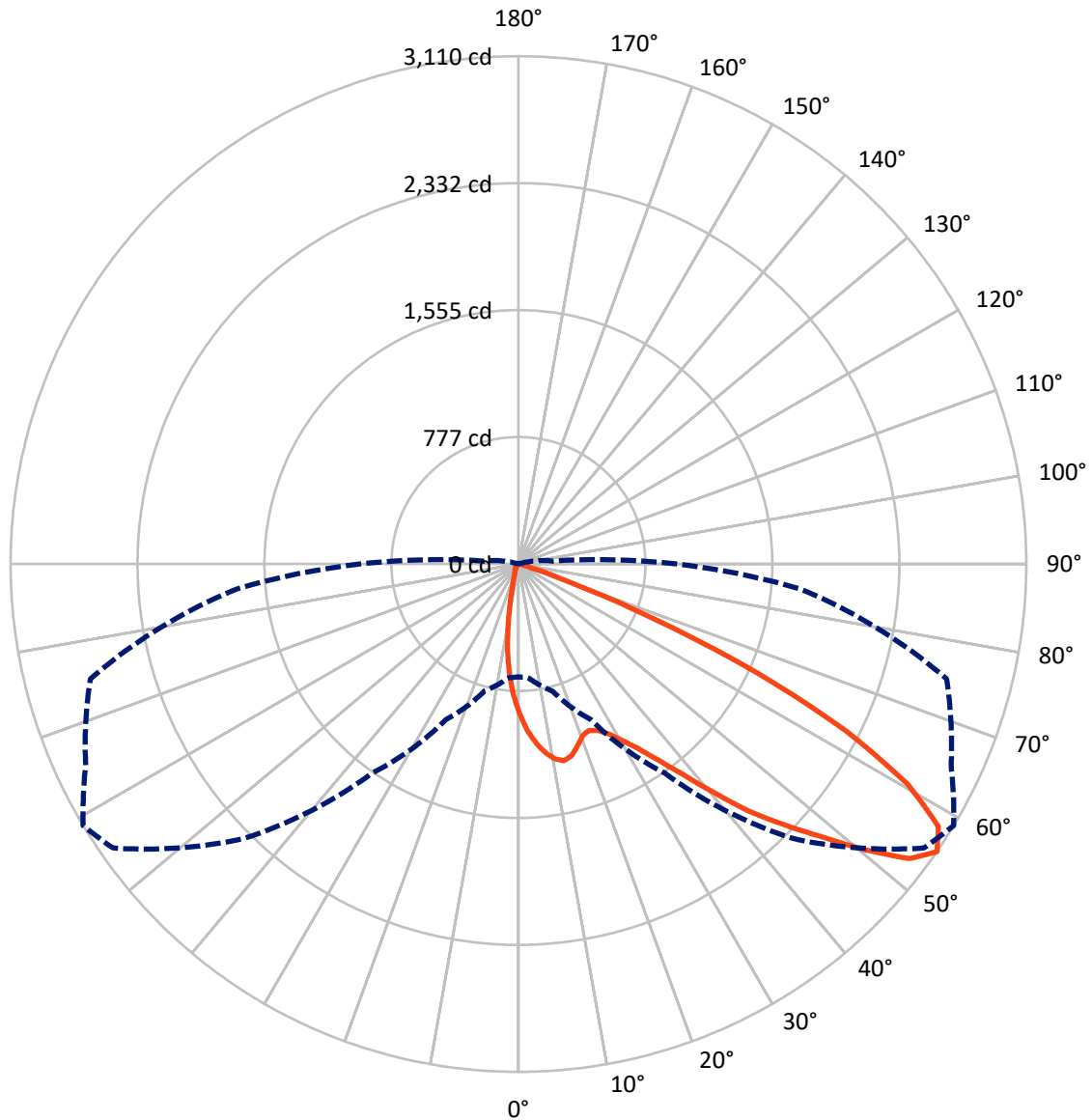


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.7	0.0	181.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3071.6	0.0	3071.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	3253.4	0.0	3253.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	2.4
10°-20°	183.7	5.6
20°-30°	312.5	9.6
30°-40°	537.5	16.5
40°-50°	829.8	25.5
50°-60°	834.2	25.6
60°-70°	427.8	13.1
70°-80°	46.4	1.4
80°-90°	4.8	0.1
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°	3253.4	100.0
0°-180°	3253.4	100.0



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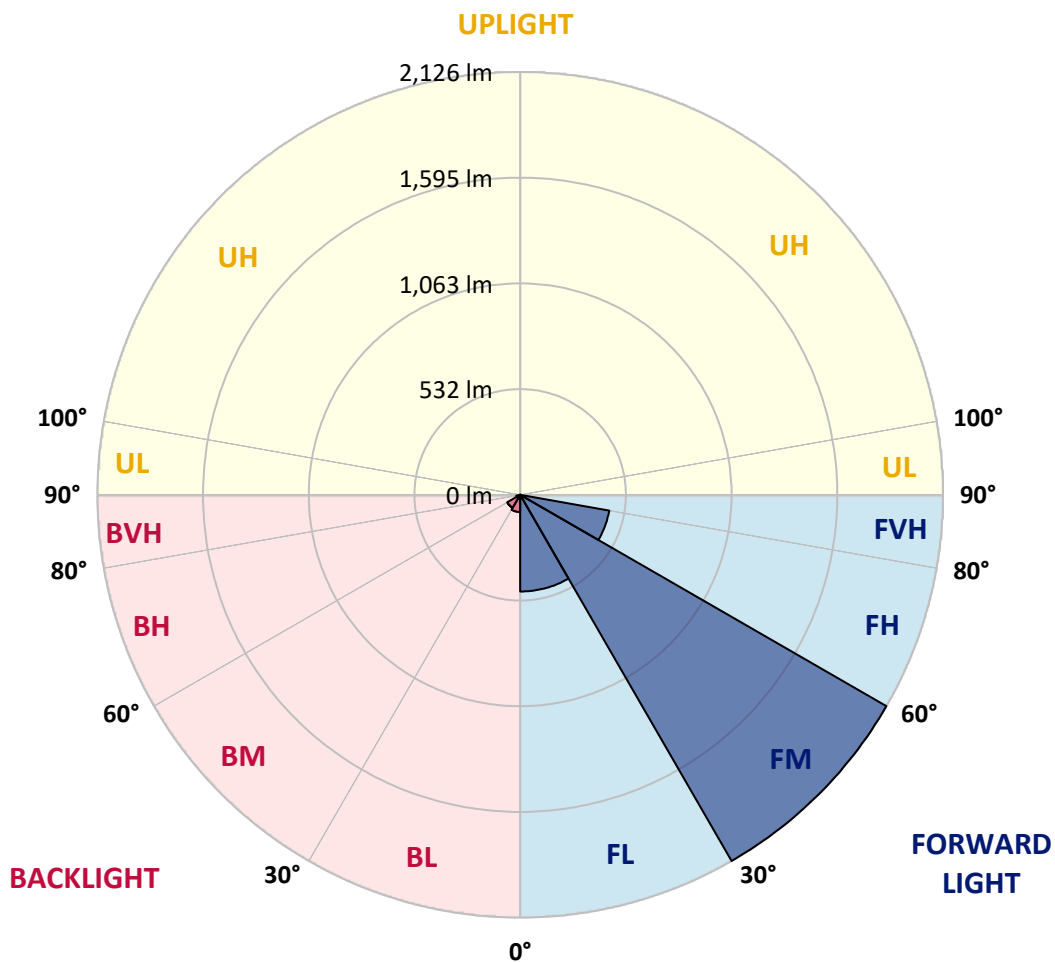
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.2	14.9			
FM (30°-60°)	2126.1	65.3			
FH (60°-80°)	454.7	14.0			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	86.7	2.7	B0/110		
BM (30°-60°)	75.4	2.3	B0/220		
BH (60°-80°)	19.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8
2.5°	1083.6	1072.1	1068.6	1066.3	1055.8	1042.5	1024.5	1016.0	998.7	970.9	936.7
5°	1182.9	1180.8	1173.1	1168.9	1157.5	1138.7	1109.9	1096.1	1068.6	1021.8	960.5
7.5°	1139.5	1152.7	1163.3	1181.0	1203.2	1202.5	1178.3	1163.9	1133.1	1071.3	987.0
10°	971.9	982.6	999.9	1040.0	1121.8	1194.0	1222.4	1212.1	1187.5	1116.8	1012.6
12.5°	939.0	937.9	941.0	952.7	995.5	1098.4	1214.9	1235.9	1230.9	1158.5	1036.8
15°	956.5	955.2	954.8	958.8	969.2	1012.6	1158.7	1218.8	1257.4	1197.1	1057.3
17.5°	1005.5	999.7	996.6	993.4	990.3	1001.1	1091.1	1171.0	1261.4	1230.9	1074.4
20°	1089.4	1079.8	1068.4	1050.0	1032.7	1027.4	1062.7	1121.8	1247.0	1256.6	1085.5
22.5°	1194.8	1182.5	1162.9	1129.3	1094.2	1073.8	1076.7	1106.3	1225.5	1284.6	1090.7
25°	1313.2	1297.5	1271.4	1224.7	1173.1	1137.0	1118.2	1128.5	1215.7	1317.5	1096.7
27.5°	1440.1	1422.7	1388.5	1324.9	1266.4	1217.6	1179.2	1177.9	1232.4	1360.5	1106.3
30°	1565.9	1563.2	1518.7	1451.5	1373.9	1314.6	1259.3	1252.2	1279.1	1420.0	1125.3
32.5°	1733.7	1713.5	1659.0	1589.9	1500.4	1429.2	1363.7	1347.2	1350.7	1489.3	1154.6
35°	1945.3	1923.2	1846.4	1751.0	1651.0	1566.9	1494.5	1472.0	1463.6	1602.8	1204.2
37.5°	2082.0	2081.6	2033.4	1936.3	1828.9	1736.2	1657.5	1631.2	1614.1	1739.8	1281.0
40°	2085.6	2094.6	2101.0	2100.0	2023.6	1938.2	1868.3	1835.8	1796.1	1923.0	1380.2
42.5°	1973.7	1996.9	2052.8	2147.6	2192.9	2159.0	2100.0	2068.2	2009.0	2119.0	1501.2
45°	1822.4	1838.5	1936.3	2111.0	2284.7	2377.8	2332.9	2275.9	2197.9	2323.5	1609.7
47.5°	1754.6	1757.5	1820.7	2012.5	2291.6	2557.2	2584.4	2491.7	2369.6	2488.2	1694.5
50°	1552.1	1557.3	1644.4	1841.8	2210.6	2641.8	2837.1	2749.2	2556.8	2615.1	1725.4
52.5°	1169.8	1177.1	1287.7	1561.3	1987.9	2605.7	3017.9	2996.6	2761.8	2677.2	1727.2
55°	690.2	699.8	805.4	1051.0	1563.6	2376.1	3031.4	3109.7	2923.7	2713.8	1724.5
57.5°	322.4	329.1	389.6	541.4	972.4	1877.9	2829.0	3032.2	3013.0	2733.2	1743.5
60°	171.3	173.2	187.8	234.4	439.5	1190.7	2434.1	2738.0	2931.5	2760.1	1766.7
62.5°	130.9	131.5	130.7	136.3	184.7	528.6	1839.9	2250.9	2603.8	2739.9	1741.0
65°	113.5	114.4	109.1	107.7	118.5	188.5	1093.0	1604.5	2046.1	2467.9	1565.7
67.5°	101.8	102.1	95.6	90.0	92.0	101.9	431.2	878.4	1354.3	1809.0	1134.9
70°	93.7	93.3	86.2	77.4	74.9	69.7	137.1	322.0	647.2	917.3	527.8
72.5°	82.9	83.1	79.7	68.2	62.2	48.8	63.5	93.9	193.1	250.0	123.6
75°	73.5	72.6	68.3	61.1	51.3	32.1	31.5	41.9	59.5	59.1	26.7
77.5°	53.2	52.2	53.6	50.1	39.4	20.7	15.7	20.2	24.2	23.4	7.5
80°	39.0	38.4	34.6	41.7	34.8	14.2	9.8	10.8	12.5	10.6	2.3
82.5°	26.7	26.5	24.4	23.0	19.8	8.6	6.1	6.7	8.1	6.0	1.2
85°	4.2	4.8	17.7	14.0	11.7	3.8	4.2	4.6	5.4	3.3	0.4
87.5°	0.0	0.0	8.3	7.3	2.3	1.5	2.5	2.7	2.7	1.7	0.0
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°	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8	915.8
2.5°	919.3	900.1	864.5	827.9	793.9	753.4	725.5	704.6	680.4	673.9	688.1
5°	925.6	889.3	812.9	729.8	651.6	565.0	498.8	446.4	399.0	382.8	397.4
7.5°	935.6	881.6	757.0	620.1	484.2	349.0	256.5	195.6	156.9	145.3	151.5
10°	945.6	870.5	692.3	490.4	304.5	169.9	110.6	88.3	80.1	78.3	79.3
12.5°	953.8	855.5	613.4	348.7	162.8	91.0	72.4	68.7	67.6	67.6	68.0
15°	958.8	832.9	519.9	221.8	93.7	68.7	63.2	62.0	62.0	62.2	62.6
17.5°	958.2	804.1	417.6	134.2	70.1	60.9	57.6	56.6	56.4	56.8	57.0
20°	951.1	766.4	314.9	88.5	61.1	55.5	52.2	50.5	50.3	50.7	51.1
22.5°	937.7	720.0	225.2	68.2	55.1	50.3	46.3	44.7	44.7	45.1	45.5
25°	921.4	663.1	154.0	57.8	49.7	44.7	40.9	39.6	39.9	40.9	41.1
27.5°	901.0	599.2	104.6	49.5	43.2	39.2	36.3	35.3	36.3	37.6	38.0
30°	883.6	532.6	74.7	42.8	36.7	33.8	32.1	32.1	33.4	35.9	36.5
32.5°	870.1	468.1	57.6	37.8	31.9	29.4	28.4	29.4	31.5	34.0	34.6
35°	868.4	414.9	48.8	33.8	28.4	25.9	25.5	27.3	29.4	31.3	31.7
37.5°	881.6	365.7	44.0	30.5	25.3	23.0	22.7	24.8	26.9	29.2	29.8
40°	906.8	327.2	40.5	27.5	22.8	20.4	19.6	21.1	24.0	27.1	27.8
42.5°	939.4	295.3	36.7	24.4	20.4	16.9	15.9	17.7	20.7	24.0	25.0
45°	970.5	267.8	32.4	20.9	17.1	13.1	12.7	15.0	16.5	19.8	20.5
47.5°	987.6	243.6	28.8	17.1	13.2	10.6	10.6	11.1	12.7	16.5	17.3
50°	981.9	224.2	25.0	12.7	9.2	8.1	8.1	7.9	10.2	13.2	13.8
52.5°	970.3	213.1	21.5	9.8	6.3	5.8	5.2	5.8	7.1	8.4	8.6
55°	968.6	211.2	18.0	7.9	4.4	3.8	2.9	2.9	2.9	2.7	2.3
57.5°	982.0	214.3	15.2	6.3	3.3	2.5	1.5	0.0	0.0	0.0	0.0
60°	995.9	217.5	13.1	4.4	2.3	1.3	0.2	0.0	0.0	0.0	0.0
62.5°	972.8	210.2	10.9	2.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0
65°	854.6	178.9	8.6	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	607.9	119.8	5.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	277.4	50.1	3.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	59.3	15.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.1	11.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)