

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: P300721

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300721  
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-7030-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2953.4 lumens  
Efficiency: N/A  
Efficacy: 86.9 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): 34  
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

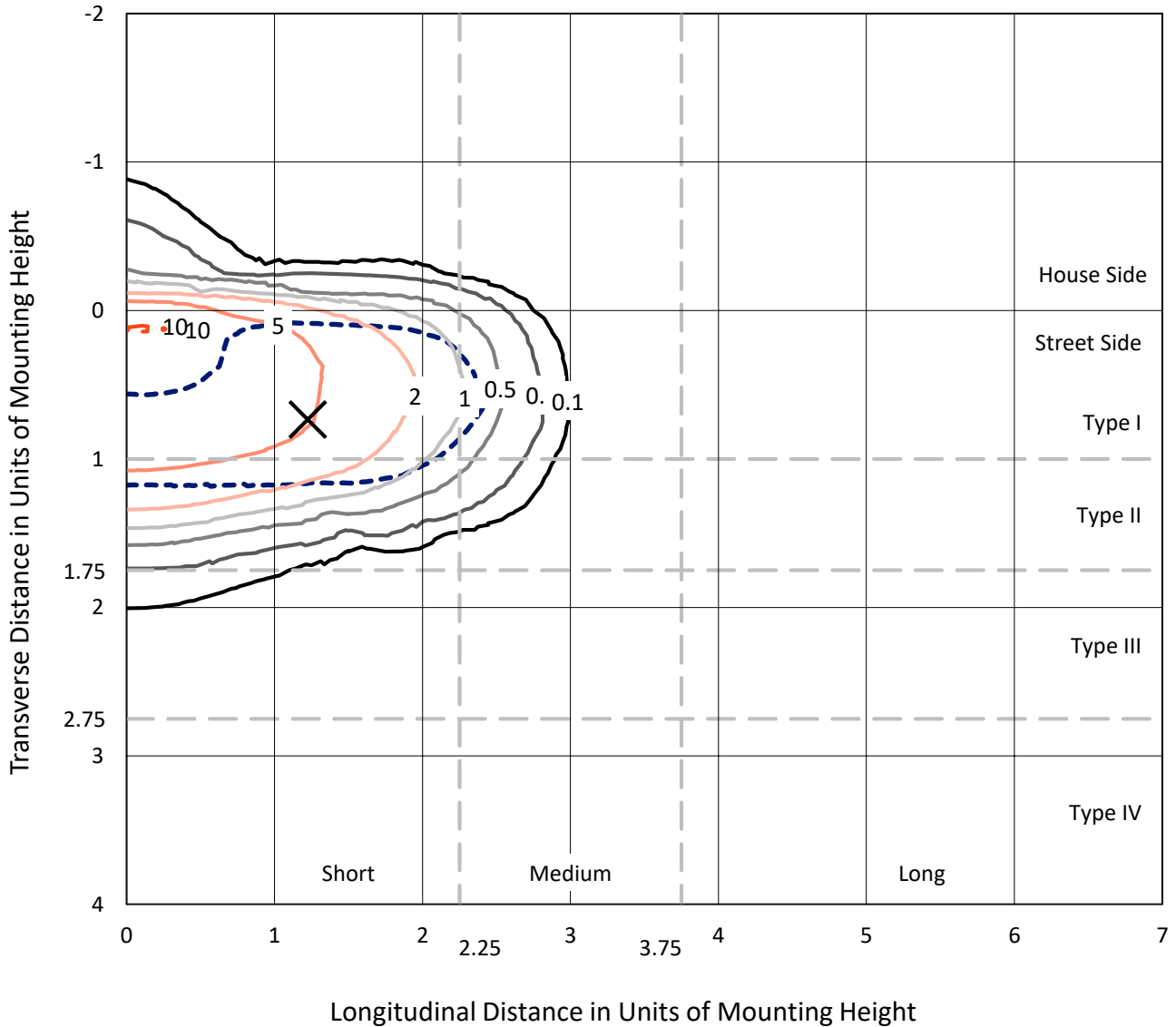


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

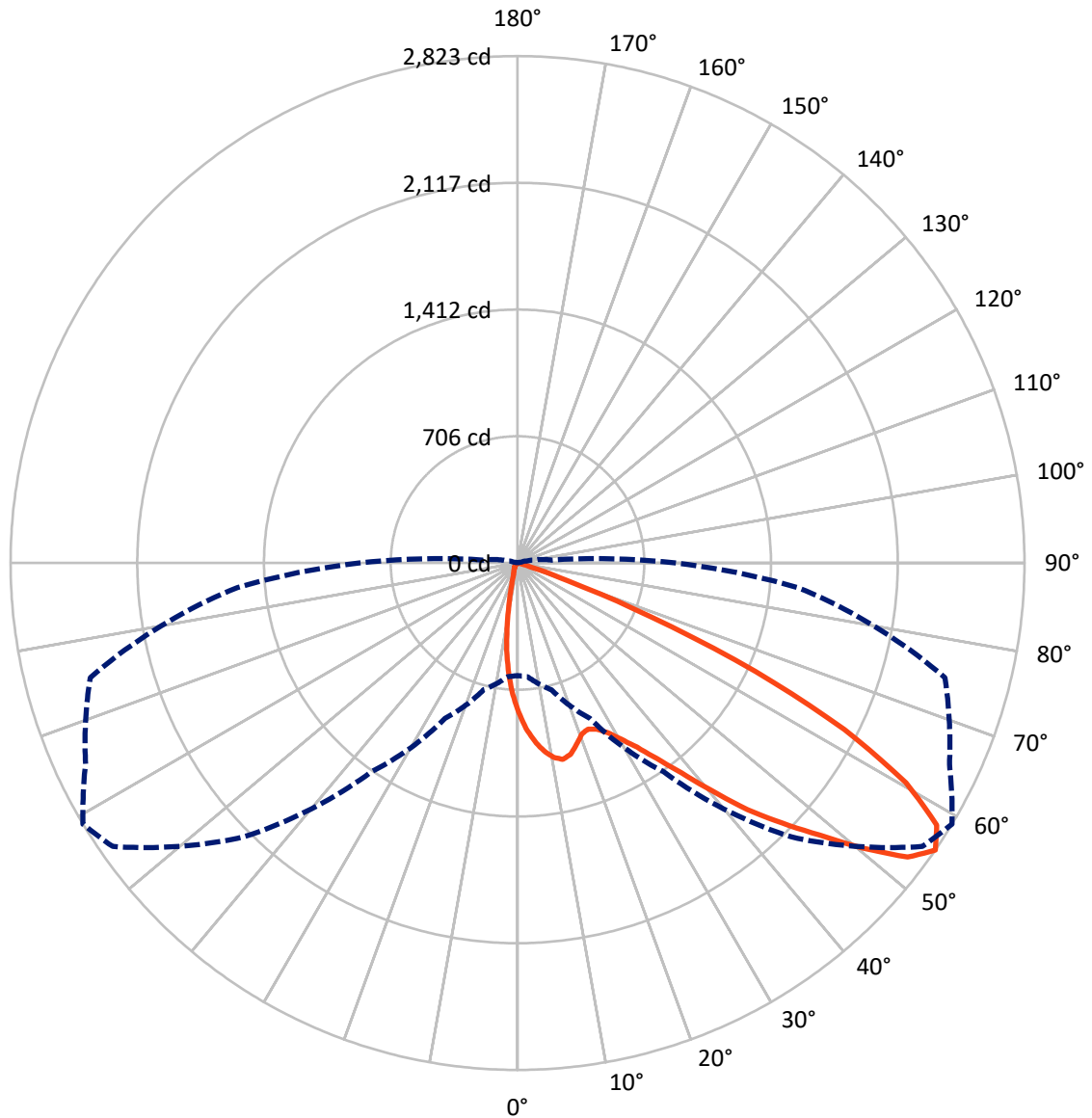


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	165.0	0.0	165.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	2788.5	0.0	2788.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	2953.4	0.0	2953.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	2.4
10°-20°	166.7	5.6
20°-30°	283.7	9.6
30°-40°	487.9	16.5
40°-50°	753.3	25.5
50°-60°	757.3	25.6
60°-70°	388.3	13.1
70°-80°	42.1	1.4
80°-90°	4.4	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°	2953.4	100.0
0°-180°	2953.4	100.0



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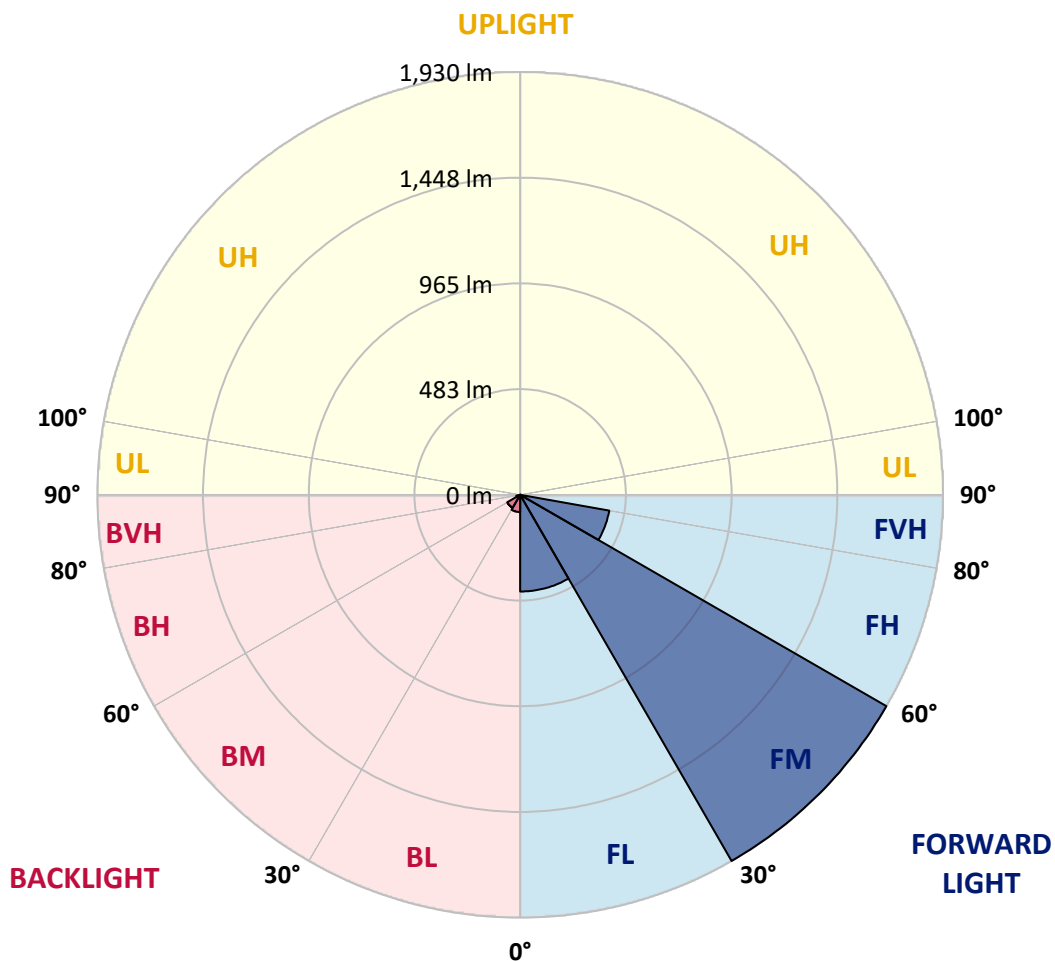
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.3	14.9			
FM	(30°-60°)	1930.1	65.3			
FH	(60°-80°)	412.8	14.0			G0/660
FVH	(80°-90°)	4.3	0.1			G0/10
BL	(0°-30°)	78.7	2.7	B0/110		
BM	(30°-60°)	68.5	2.3	B0/220		
BH	(60°-80°)	17.7	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°	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4
2.5°	983.7	973.3	970.1	968.0	958.4	946.4	930.0	922.4	906.7	881.4	850.4
5°	1073.8	1071.9	1064.9	1061.1	1050.8	1033.7	1007.6	995.0	970.1	927.6	872.0
7.5°	1034.4	1046.5	1056.0	1072.1	1092.3	1091.6	1069.6	1056.6	1028.7	972.6	896.0
10°	882.3	892.0	907.7	944.1	1018.4	1083.9	1109.7	1100.3	1078.0	1013.9	919.2
12.5°	852.5	851.4	854.2	864.8	903.7	997.1	1102.9	1121.9	1117.4	1051.7	941.2
15°	868.3	867.1	866.8	870.4	879.8	919.2	1051.9	1106.4	1141.4	1086.7	959.8
17.5°	912.8	907.5	904.8	901.8	899.0	908.8	990.5	1063.0	1145.1	1117.4	975.3
20°	988.9	980.2	969.9	953.2	937.5	932.6	964.7	1018.4	1132.0	1140.8	985.5
22.5°	1084.6	1073.5	1055.7	1025.2	993.3	974.8	977.4	1004.3	1112.5	1166.2	990.2
25°	1192.2	1177.9	1154.2	1111.8	1064.9	1032.2	1015.1	1024.5	1103.6	1196.0	995.6
27.5°	1307.4	1291.5	1260.5	1202.8	1149.6	1105.4	1070.5	1069.3	1118.8	1235.0	1004.3
30°	1421.5	1419.1	1378.7	1317.7	1247.2	1193.4	1143.2	1136.7	1161.1	1289.1	1021.5
32.5°	1573.9	1555.6	1506.1	1443.3	1362.1	1297.4	1238.0	1223.0	1226.2	1352.0	1048.2
35°	1765.9	1745.9	1676.2	1589.6	1498.7	1422.4	1356.7	1336.3	1328.6	1455.0	1093.2
37.5°	1890.0	1889.7	1845.9	1757.8	1660.3	1576.1	1504.7	1480.8	1465.3	1579.4	1162.9
40°	1893.4	1901.5	1907.3	1906.4	1837.1	1759.5	1696.1	1666.6	1630.5	1745.7	1253.0
42.5°	1791.7	1812.8	1863.5	1949.6	1990.8	1959.9	1906.4	1877.5	1823.8	1923.7	1362.8
45°	1654.4	1669.0	1757.8	1916.4	2074.1	2158.6	2117.8	2066.1	1995.3	2109.3	1461.3
47.5°	1592.9	1595.5	1652.8	1826.9	2080.4	2321.4	2346.2	2262.0	2151.1	2258.8	1538.3
50°	1409.0	1413.7	1492.8	1672.0	2006.8	2398.3	2575.5	2495.7	2321.1	2374.1	1566.4
52.5°	1062.0	1068.6	1169.0	1417.4	1804.6	2365.5	2739.7	2720.4	2507.2	2430.3	1567.9
55°	626.6	635.3	731.2	954.1	1419.4	2157.1	2751.9	2823.0	2654.1	2463.6	1565.5
57.5°	292.6	298.7	353.6	491.5	882.8	1704.8	2568.2	2752.6	2735.2	2481.2	1582.8
60°	155.5	157.2	170.5	212.8	399.0	1081.0	2209.7	2485.6	2661.3	2505.6	1603.8
62.5°	118.9	119.4	118.7	123.7	167.7	479.8	1670.3	2043.4	2363.8	2487.3	1580.5
65°	103.0	103.9	99.0	97.8	107.5	171.2	992.3	1456.6	1857.4	2240.4	1421.4
67.5°	92.4	92.7	86.8	81.7	83.5	92.5	391.5	797.4	1229.5	1642.2	1030.2
70°	85.1	84.7	78.3	70.2	68.0	63.3	124.4	292.3	587.5	832.8	479.1
72.5°	75.3	75.5	72.3	61.9	56.5	44.3	57.7	85.2	175.3	226.9	112.2
75°	66.8	65.9	62.0	55.4	46.5	29.1	28.6	38.0	54.0	53.7	24.2
77.5°	48.3	47.4	48.6	45.5	35.7	18.8	14.3	18.3	22.0	21.3	6.8
80°	35.4	34.9	31.4	37.8	31.5	12.9	8.9	9.8	11.3	9.6	2.1
82.5°	24.2	24.1	22.1	20.9	18.0	7.8	5.6	6.1	7.3	5.4	1.0
85°	3.8	4.4	16.0	12.7	10.6	3.5	3.8	4.2	4.9	3.0	0.3
87.5°	0.0	0.0	7.5	6.6	2.1	1.4	2.3	2.4	2.4	1.6	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°	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4
2.5°	834.5	817.1	784.8	751.6	720.7	683.9	658.7	639.7	617.7	611.8	624.7
5°	840.3	807.3	738.0	662.5	591.6	512.9	452.8	405.2	362.2	347.5	360.8
7.5°	849.3	800.4	687.2	563.0	439.6	316.9	232.9	177.6	142.4	131.9	137.5
10°	858.4	790.2	628.5	445.1	276.4	154.2	100.4	80.2	72.7	71.1	72.0
12.5°	865.9	776.7	556.9	316.5	147.8	82.6	65.7	62.4	61.4	61.4	61.7
15°	870.4	756.1	472.0	201.3	85.1	62.4	57.3	56.3	56.3	56.5	56.8
17.5°	869.9	729.9	379.1	121.8	63.6	55.3	52.3	51.4	51.2	51.6	51.8
20°	863.5	695.8	285.8	80.3	55.4	50.4	47.4	45.8	45.7	46.0	46.4
22.5°	851.2	653.6	204.4	61.9	50.0	45.7	42.0	40.6	40.6	41.0	41.3
25°	836.4	602.0	139.8	52.5	45.1	40.6	37.1	35.9	36.3	37.1	37.3
27.5°	818.0	544.0	95.0	45.0	39.2	35.6	32.9	32.1	32.9	34.2	34.5
30°	802.1	483.5	67.8	38.9	33.3	30.7	29.1	29.1	30.3	32.6	33.1
32.5°	789.9	424.9	52.3	34.3	28.9	26.7	25.8	26.7	28.6	30.8	31.4
35°	788.3	376.6	44.3	30.7	25.8	23.5	23.2	24.7	26.7	28.4	28.8
37.5°	800.4	332.0	39.9	27.7	23.0	20.9	20.6	22.5	24.4	26.5	27.0
40°	823.2	297.0	36.8	24.9	20.7	18.5	17.8	19.2	21.8	24.6	25.3
42.5°	852.8	268.1	33.3	22.1	18.5	15.3	14.5	16.0	18.8	21.8	22.7
45°	881.1	243.1	29.5	19.0	15.5	11.9	11.5	13.6	15.0	18.0	18.6
47.5°	896.6	221.2	26.1	15.5	12.0	9.6	9.6	10.1	11.5	15.0	15.7
50°	891.3	203.6	22.7	11.5	8.4	7.3	7.3	7.1	9.2	12.0	12.5
52.5°	880.9	193.5	19.5	8.9	5.8	5.2	4.7	5.2	6.4	7.7	7.8
55°	879.3	191.7	16.4	7.1	4.0	3.5	2.6	2.6	2.6	2.4	2.1
57.5°	891.5	194.5	13.8	5.8	3.0	2.3	1.4	0.0	0.0	0.0	0.0
60°	904.1	197.5	11.9	4.0	2.1	1.2	0.2	0.0	0.0	0.0	0.0
62.5°	883.1	190.9	9.9	2.4	1.6	0.5	0.0	0.0	0.0	0.0	0.0
65°	775.8	162.4	7.8	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	551.8	108.8	5.2	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	251.9	45.5	3.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	53.9	14.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.0	10.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.3	1.7	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)