

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: P300661

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300661  
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-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K 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: 3622 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

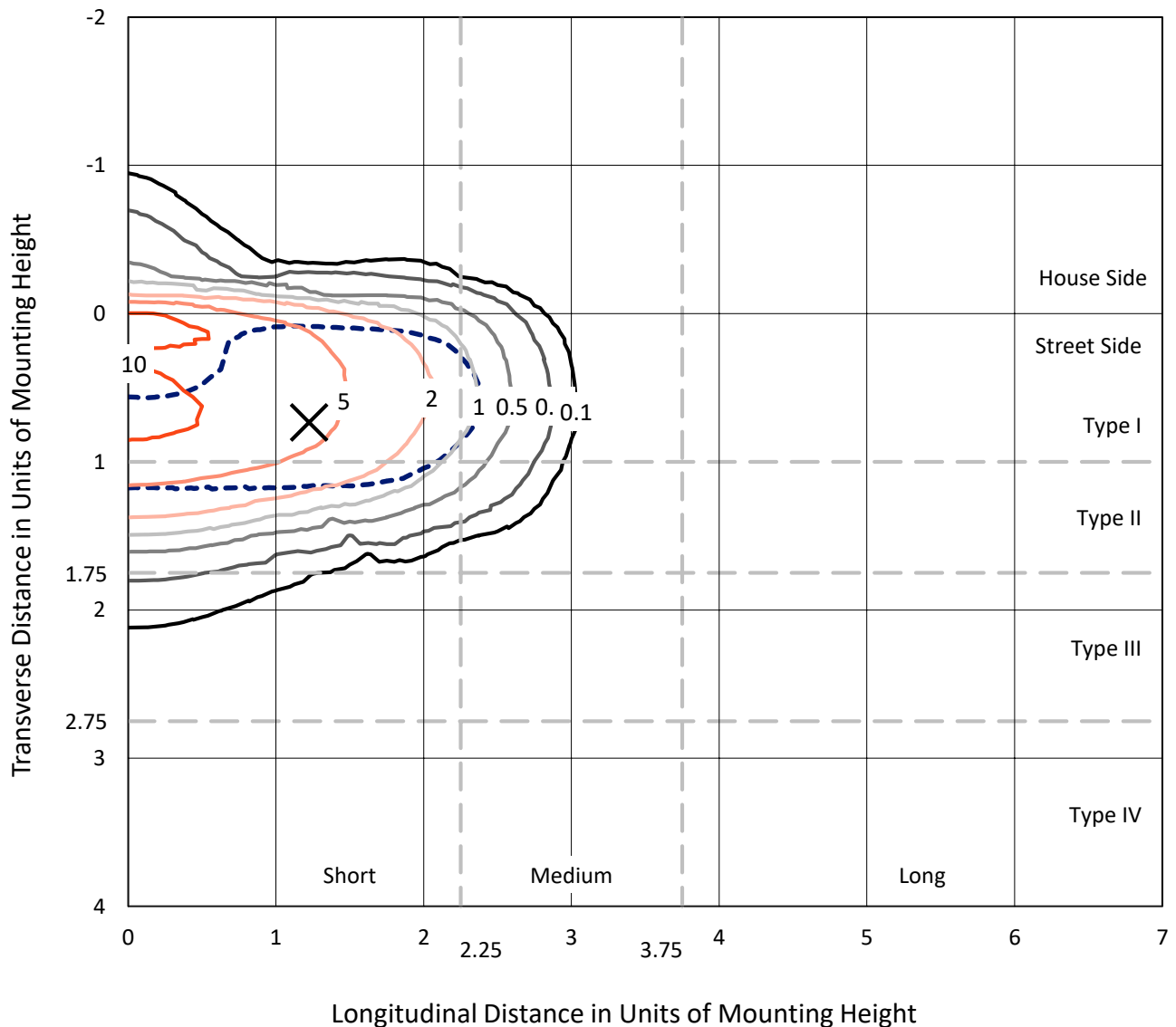


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

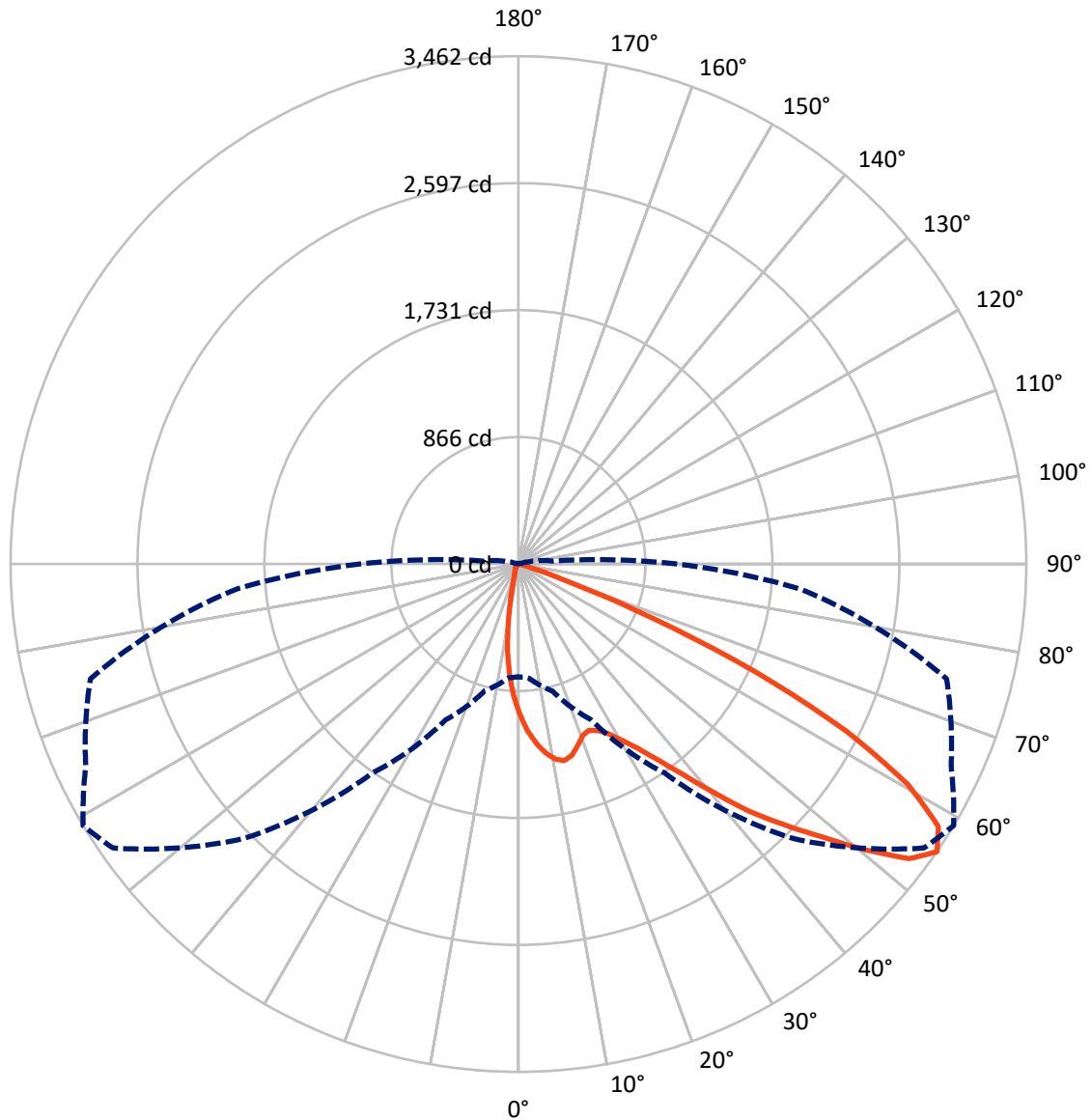


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - Full Cutoff

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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	202.3	0.0	202.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	3419.7	0.0	3419.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	3622.0	0.0	3622.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	2.4
10°-20°	204.5	5.6
20°-30°	347.9	9.6
30°-40°	598.4	16.5
40°-50°	923.8	25.5
50°-60°	928.7	25.6
60°-70°	476.3	13.1
70°-80°	51.6	1.4
80°-90°	5.4	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°	3622.0	100.0
0°-180°	3622.0	100.0

**Coefficient of Utilization**



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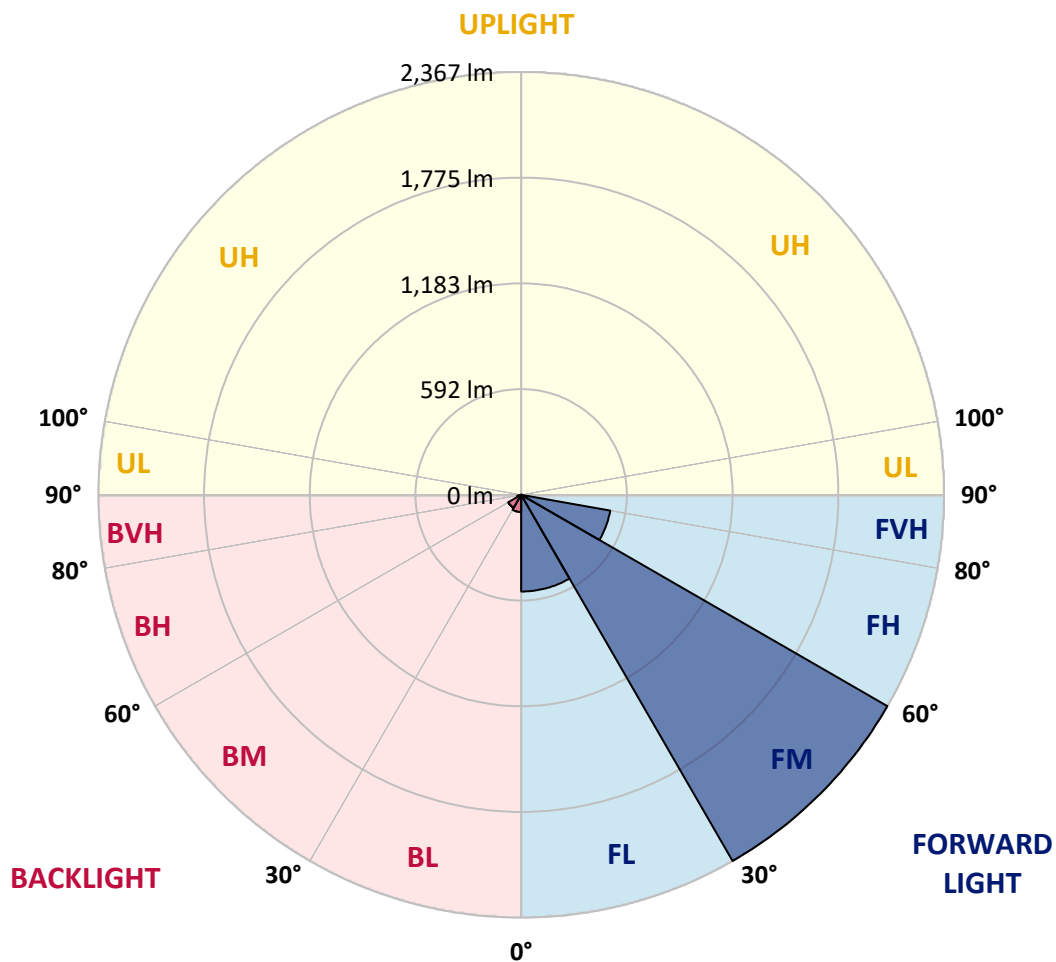
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	541.2	14.9			
FM	(30°-60°)	2366.9	65.3			
FH	(60°-80°)	506.2	14.0			G0/660
FVH	(80°-90°)	5.3	0.1			G0/10
BL	(0°-30°)	96.6	2.7	B0/110		
BM	(30°-60°)	84.0	2.3	B0/220		
BH	(60°-80°)	21.7	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°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
2.5°	1206.4	1193.6	1189.7	1187.1	1175.4	1160.6	1140.6	1131.1	1111.9	1080.9	1042.9
5°	1316.9	1314.5	1306.0	1301.3	1288.7	1267.7	1235.7	1220.3	1189.7	1137.6	1069.4
7.5°	1268.6	1283.3	1295.1	1314.8	1339.5	1338.7	1311.8	1295.7	1261.5	1192.7	1098.9
10°	1082.0	1094.0	1113.2	1157.9	1248.9	1329.3	1360.9	1349.4	1322.0	1243.4	1127.3
12.5°	1045.4	1044.2	1047.6	1060.6	1108.3	1222.8	1352.6	1375.9	1370.3	1289.7	1154.2
15°	1064.9	1063.4	1063.0	1067.4	1079.0	1127.3	1290.0	1356.9	1399.8	1332.7	1177.1
17.5°	1119.4	1113.0	1109.6	1105.9	1102.5	1114.5	1214.7	1303.6	1404.3	1370.3	1196.1
20°	1212.8	1202.1	1189.5	1169.0	1149.7	1143.8	1183.1	1248.9	1388.3	1399.0	1208.5
22.5°	1330.1	1316.5	1294.7	1257.3	1218.1	1195.5	1198.7	1231.6	1364.3	1430.2	1214.3
25°	1462.0	1444.5	1415.4	1363.5	1306.0	1265.8	1244.9	1256.4	1353.4	1466.7	1220.9
27.5°	1603.3	1583.9	1545.8	1475.1	1409.9	1355.6	1312.8	1311.3	1372.0	1514.6	1231.6
30°	1743.3	1740.3	1690.7	1615.9	1529.6	1463.5	1402.0	1394.1	1424.0	1580.9	1252.8
32.5°	1930.1	1907.7	1847.0	1770.0	1670.4	1591.1	1518.2	1499.9	1503.7	1658.0	1285.5
35°	2165.7	2141.1	2055.6	1949.4	1838.0	1744.4	1663.8	1638.8	1629.4	1784.4	1340.6
37.5°	2317.9	2317.4	2263.8	2155.6	2036.1	1932.9	1845.3	1816.0	1797.0	1937.0	1426.1
40°	2321.9	2332.0	2339.0	2338.0	2252.9	2157.8	2080.0	2043.8	1999.6	2140.9	1536.6
42.5°	2197.3	2223.2	2285.4	2391.0	2441.4	2403.6	2338.0	2302.5	2236.6	2359.1	1671.3
45°	2028.9	2046.8	2155.6	2350.1	2543.6	2647.2	2597.2	2533.7	2447.0	2586.8	1792.0
47.5°	1953.4	1956.6	2027.0	2240.5	2551.3	2846.9	2877.2	2774.0	2638.1	2770.2	1886.5
50°	1727.9	1733.7	1830.7	2050.5	2461.1	2941.2	3158.5	3060.6	2846.5	2911.4	1920.9
52.5°	1302.4	1310.5	1433.6	1738.2	2213.1	2901.0	3359.9	3336.2	3074.7	2980.5	1922.9
55°	768.4	779.1	896.7	1170.0	1740.8	2645.3	3374.8	3462.1	3254.9	3021.3	1919.9
57.5°	358.9	366.4	433.7	602.8	1082.6	2090.7	3149.6	3375.7	3354.3	3042.9	1941.0
60°	190.7	192.8	209.0	261.0	489.3	1325.7	2709.9	3048.2	3263.7	3072.8	1966.9
62.5°	145.8	146.4	145.6	151.8	205.6	588.4	2048.3	2506.0	2898.8	3050.4	1938.3
65°	126.3	127.4	121.4	119.9	131.9	209.9	1216.9	1786.3	2277.9	2747.5	1743.1
67.5°	113.3	113.7	106.4	100.2	102.4	113.5	480.1	977.9	1507.8	2013.9	1263.5
70°	104.3	103.9	96.0	86.1	83.4	77.6	152.6	358.5	720.5	1021.3	587.6
72.5°	92.3	92.6	88.7	75.9	69.3	54.3	70.8	104.5	215.0	278.3	137.7
75°	81.9	80.8	76.1	68.0	57.1	35.7	35.1	46.6	66.3	65.8	29.7
77.5°	59.2	58.1	59.6	55.8	43.8	23.1	17.5	22.4	26.9	26.1	8.3
80°	43.4	42.7	38.5	46.4	38.7	15.8	10.9	12.0	13.9	11.8	2.6
82.5°	29.7	29.5	27.1	25.6	22.0	9.6	6.8	7.5	9.0	6.6	1.3
85°	4.7	5.3	19.7	15.6	13.0	4.3	4.7	5.1	6.0	3.6	0.4
87.5°	0.0	0.0	9.2	8.1	2.6	1.7	2.8	3.0	3.0	1.9	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°	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6	1019.6
2.5°	1023.4	1002.0	962.5	921.7	883.8	838.7	807.7	784.4	757.5	750.2	766.1
5°	1030.5	990.1	905.0	812.5	725.5	629.1	555.3	497.0	444.2	426.2	442.5
7.5°	1041.6	981.5	842.8	690.4	539.1	388.6	285.6	217.8	174.6	161.8	168.6
10°	1052.7	969.1	770.8	545.9	339.0	189.2	123.1	98.3	89.1	87.2	88.3
12.5°	1061.9	952.5	682.9	388.2	181.3	101.3	80.6	76.5	75.2	75.2	75.7
15°	1067.4	927.2	578.8	246.9	104.3	76.5	70.3	69.0	69.0	69.3	69.7
17.5°	1066.8	895.2	464.9	149.4	78.0	67.8	64.1	63.1	62.8	63.3	63.5
20°	1058.9	853.3	350.5	98.5	68.0	61.8	58.1	56.2	56.0	56.4	56.9
22.5°	1043.9	801.5	250.7	75.9	61.3	56.0	51.5	49.8	49.8	50.2	50.7
25°	1025.8	738.3	171.4	64.3	55.4	49.8	45.5	44.0	44.5	45.5	45.7
27.5°	1003.1	667.1	116.5	55.1	48.1	43.6	40.4	39.3	40.4	41.9	42.3
30°	983.7	592.9	83.1	47.7	40.8	37.6	35.7	35.7	37.2	40.0	40.6
32.5°	968.7	521.1	64.1	42.1	35.5	32.7	31.6	32.7	35.1	37.8	38.5
35°	966.8	461.9	54.3	37.6	31.6	28.9	28.4	30.4	32.7	34.8	35.3
37.5°	981.5	407.2	48.9	34.0	28.2	25.6	25.2	27.6	29.9	32.5	33.1
40°	1009.5	364.2	45.1	30.6	25.4	22.7	21.8	23.5	26.7	30.1	31.0
42.5°	1045.9	328.7	40.8	27.1	22.7	18.8	17.7	19.7	23.1	26.7	27.8
45°	1080.5	298.2	36.1	23.3	19.0	14.5	14.1	16.7	18.4	22.0	22.9
47.5°	1099.5	271.2	32.1	19.0	14.7	11.8	11.8	12.4	14.1	18.4	19.2
50°	1093.1	249.7	27.8	14.1	10.3	9.0	9.0	8.8	11.3	14.7	15.4
52.5°	1080.3	237.3	23.9	10.9	7.1	6.4	5.8	6.4	7.9	9.4	9.6
55°	1078.4	235.1	20.1	8.8	4.9	4.3	3.2	3.2	3.2	3.0	2.6
57.5°	1093.3	238.5	16.9	7.1	3.6	2.8	1.7	0.0	0.0	0.0	0.0
60°	1108.7	242.2	14.5	4.9	2.6	1.5	0.2	0.0	0.0	0.0	0.0
62.5°	1083.1	234.1	12.2	3.0	1.9	0.6	0.0	0.0	0.0	0.0	0.0
65°	951.4	199.2	9.6	2.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	676.7	133.4	6.4	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	308.9	55.8	4.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	66.0	17.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.5	12.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.6	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.1	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)