

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: P300720

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300720  
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-7027-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K 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: 2652.9 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

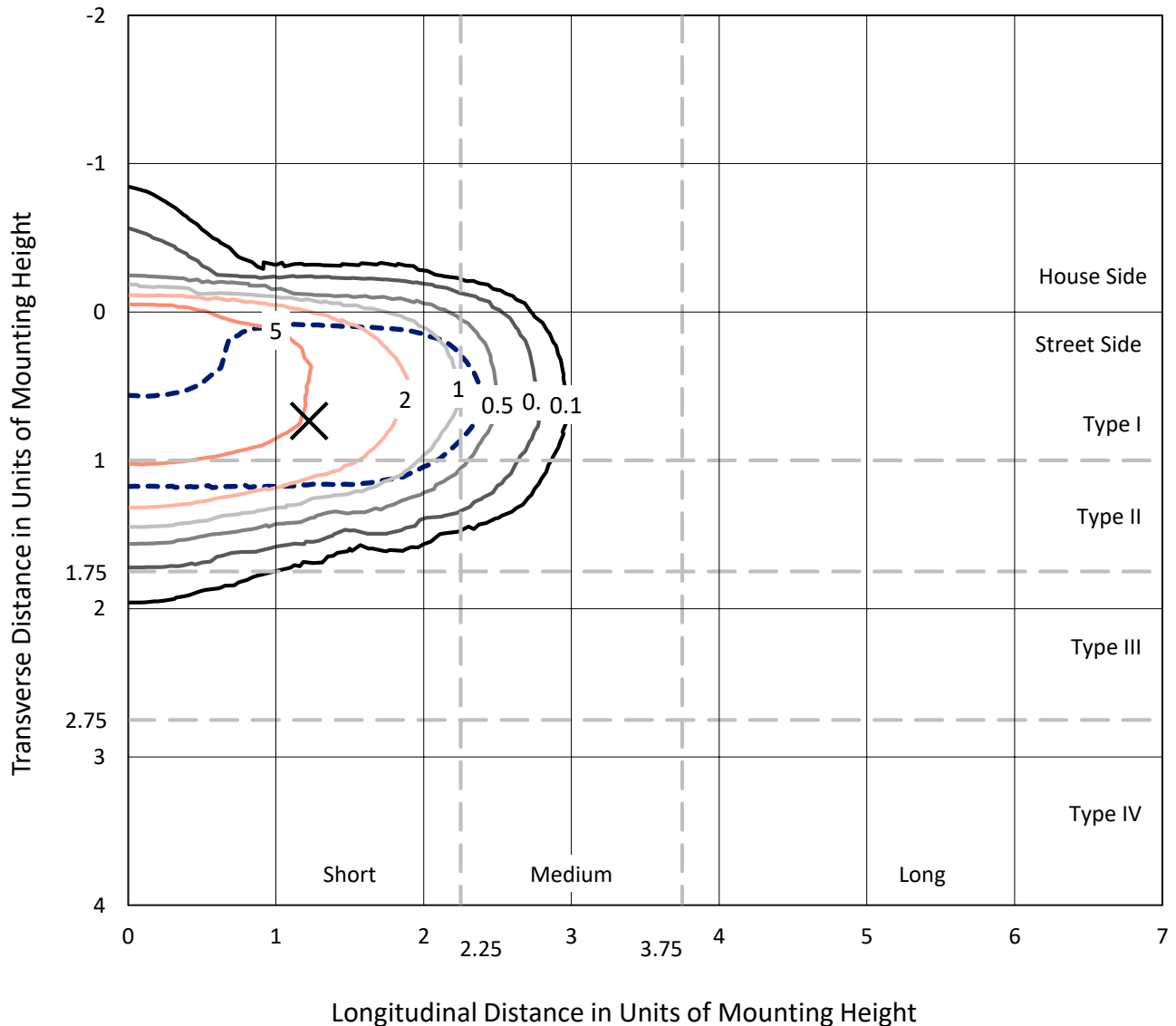


REPORT NUMBER: P300720

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7027-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

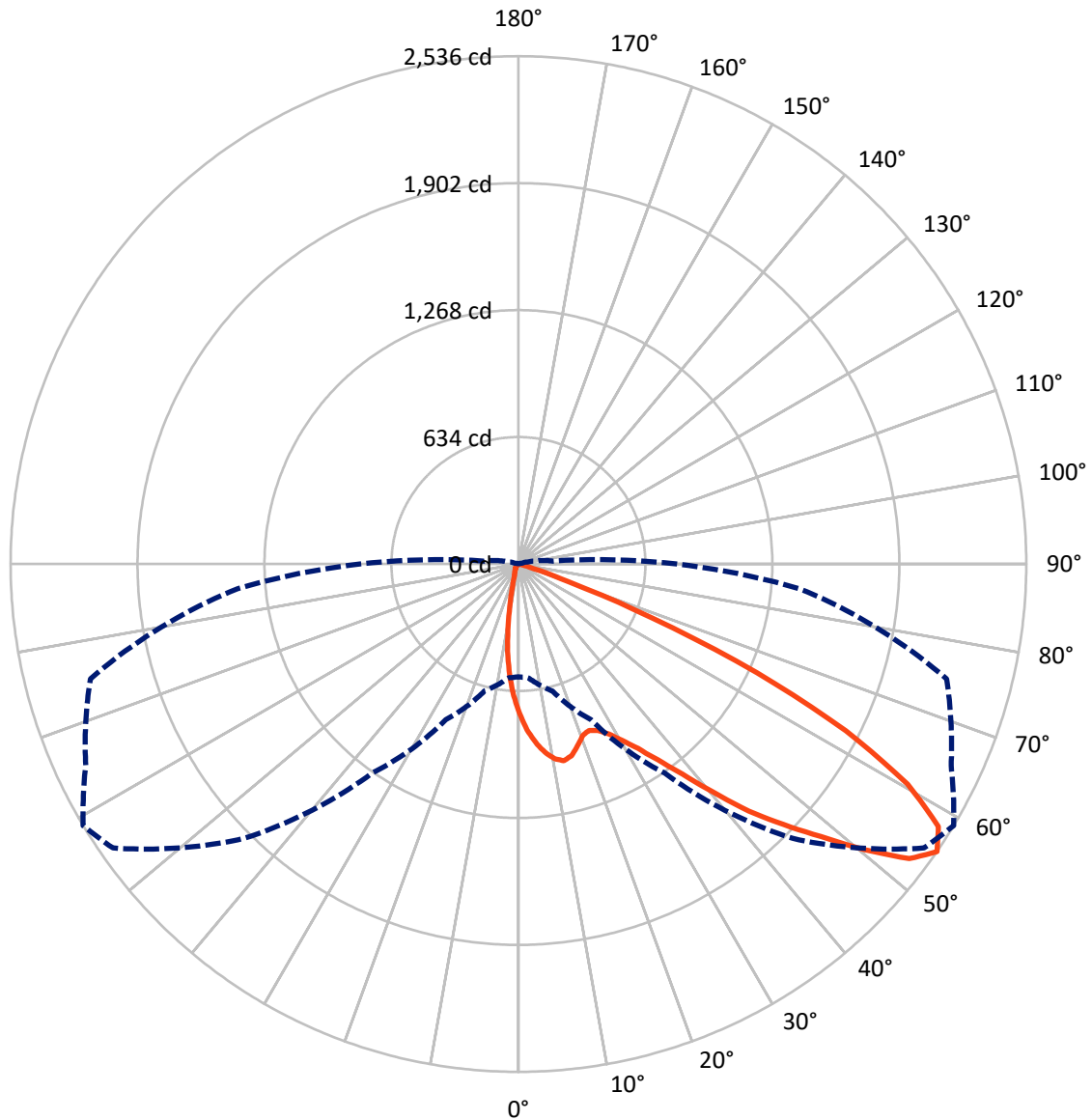


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300720

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7027-600-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300720

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7027-600-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	148.2	0.0	148.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	2504.7	0.0	2504.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	2652.9	0.0	2652.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.5	2.4
10°-20°	149.8	5.6
20°-30°	254.8	9.6
30°-40°	438.3	16.5
40°-50°	676.6	25.5
50°-60°	680.2	25.6
60°-70°	348.8	13.1
70°-80°	37.8	1.4
80°-90°	4.0	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°	2652.9	100.0
0°-180°	2652.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300720

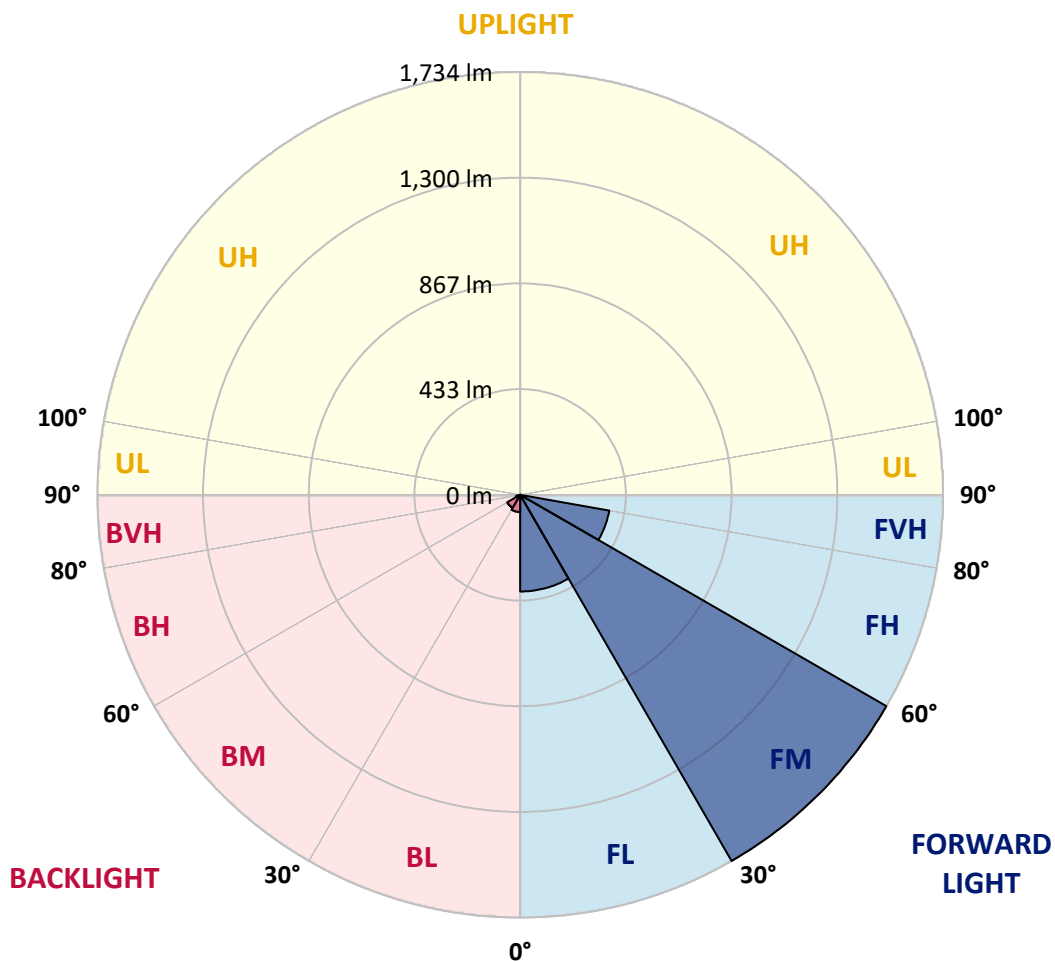
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.4	14.9			
FM	(30°-60°)	1733.6	65.3			
FH	(60°-80°)	370.8	14.0			G0/660
FVH	(80°-90°)	3.9	0.1			G0/10
BL	(0°-30°)	70.7	2.7	B0/110		
BM	(30°-60°)	61.5	2.3	B0/220		
BH	(60°-80°)	15.9	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





REPORT NUMBER: P300720

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7027-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8
2.5°	883.6	874.2	871.4	869.5	860.9	850.1	835.4	828.5	814.4	791.7	763.8
5°	964.5	962.8	956.6	953.1	943.9	928.5	905.0	893.8	871.4	833.2	783.2
7.5°	929.2	940.0	948.6	963.0	981.1	980.5	960.8	949.0	924.0	873.6	804.9
10°	792.5	801.3	815.3	848.1	914.8	973.6	996.8	988.3	968.3	910.7	825.7
12.5°	765.7	764.8	767.3	776.8	811.7	895.7	990.7	1007.7	1003.7	944.7	845.4
15°	780.0	778.9	778.6	781.8	790.3	825.7	944.8	993.8	1025.3	976.1	862.2
17.5°	819.9	815.2	812.7	810.0	807.5	816.3	889.7	954.8	1028.6	1003.7	876.1
20°	888.3	880.5	871.2	856.2	842.1	837.7	866.5	914.8	1016.8	1024.7	885.2
22.5°	974.2	964.2	948.3	920.9	892.2	875.6	878.0	902.1	999.3	1047.5	889.4
25°	1070.8	1058.0	1036.7	998.7	956.6	927.1	911.8	920.2	991.3	1074.3	894.2
27.5°	1174.3	1160.1	1132.2	1080.4	1032.6	992.9	961.6	960.5	1004.9	1109.4	902.1
30°	1276.9	1274.7	1238.4	1183.6	1120.3	1071.9	1026.8	1021.1	1043.0	1157.9	917.6
32.5°	1413.7	1397.3	1352.8	1296.4	1223.5	1165.4	1112.0	1098.6	1101.4	1214.4	941.5
35°	1586.2	1568.2	1505.6	1427.8	1346.2	1277.7	1218.6	1200.3	1193.4	1306.9	981.9
37.5°	1697.7	1697.4	1658.1	1578.9	1491.3	1415.7	1351.5	1330.1	1316.2	1418.7	1044.5
40°	1700.7	1708.0	1713.2	1712.4	1650.1	1580.4	1523.4	1497.0	1464.6	1568.1	1125.5
42.5°	1609.4	1628.3	1673.9	1751.2	1788.2	1760.5	1712.4	1686.4	1638.2	1727.9	1224.1
45°	1486.0	1499.2	1578.9	1721.3	1863.0	1938.9	1902.3	1855.8	1792.2	1894.6	1312.6
47.5°	1430.8	1433.1	1484.6	1641.0	1868.6	2085.2	2107.4	2031.8	1932.2	2029.0	1381.8
50°	1265.6	1269.8	1340.9	1501.8	1802.6	2154.2	2313.4	2241.7	2084.9	2132.4	1407.0
52.5°	953.9	959.8	1050.0	1273.1	1621.0	2124.8	2460.9	2443.5	2252.1	2183.0	1408.4
55°	562.8	570.6	656.8	857.0	1275.0	1937.5	2471.9	2535.7	2384.0	2212.9	1406.2
57.5°	262.9	268.3	317.7	441.5	793.0	1531.3	2306.8	2472.5	2456.8	2228.7	1421.7
60°	139.6	141.2	153.1	191.2	358.4	971.0	1984.8	2232.6	2390.4	2250.6	1440.6
62.5°	106.8	107.2	106.6	111.2	150.6	431.0	1500.3	1835.5	2123.2	2234.2	1419.6
65°	92.5	93.3	88.9	87.8	96.6	153.7	891.3	1308.3	1668.4	2012.4	1276.7
67.5°	83.0	83.3	78.0	73.4	75.0	83.1	351.6	716.2	1104.3	1475.1	925.4
70°	76.4	76.1	70.3	63.1	61.1	56.8	111.8	262.5	527.7	748.0	430.4
72.5°	67.6	67.8	65.0	55.6	50.7	39.8	51.8	76.6	157.5	203.8	100.8
75°	60.0	59.2	55.7	49.8	41.8	26.1	25.7	34.1	48.5	48.2	21.8
77.5°	43.4	42.6	43.7	40.9	32.1	16.9	12.8	16.4	19.7	19.1	6.1
80°	31.8	31.3	28.2	34.0	28.3	11.6	8.0	8.8	10.2	8.6	1.9
82.5°	21.8	21.6	19.9	18.8	16.1	7.0	5.0	5.5	6.6	4.9	0.9
85°	3.4	3.9	14.4	11.4	9.5	3.1	3.4	3.8	4.4	2.7	0.3
87.5°	0.0	0.0	6.7	5.9	1.9	1.3	2.0	2.2	2.2	1.4	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



REPORT NUMBER: P300720

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7027-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8	746.8
2.5°	749.6	733.9	705.0	675.1	647.4	614.3	591.6	574.6	554.8	549.5	561.1
5°	754.8	725.2	662.9	595.1	531.3	460.7	406.7	364.0	325.3	312.2	324.1
7.5°	762.9	718.9	617.3	505.7	394.8	284.6	209.2	159.5	127.9	118.5	123.5
10°	771.0	709.8	564.5	399.8	248.3	138.6	90.2	72.0	65.3	63.9	64.7
12.5°	777.8	697.6	500.2	284.3	132.8	74.2	59.0	56.0	55.1	55.1	55.4
15°	781.8	679.1	424.0	180.8	76.4	56.0	51.5	50.6	50.6	50.7	51.0
17.5°	781.4	655.7	340.5	109.4	57.1	49.6	47.0	46.2	46.0	46.3	46.5
20°	775.6	625.0	256.8	72.2	49.8	45.2	42.6	41.2	41.0	41.3	41.6
22.5°	764.6	587.1	183.6	55.6	44.9	41.0	37.7	36.5	36.5	36.8	37.1
25°	751.3	540.7	125.6	47.1	40.5	36.5	33.3	32.3	32.6	33.3	33.5
27.5°	734.7	488.6	85.3	40.4	35.2	31.9	29.6	28.8	29.6	30.7	31.0
30°	720.5	434.3	60.9	34.9	29.9	27.6	26.1	26.1	27.2	29.3	29.7
32.5°	709.5	381.7	47.0	30.8	26.0	24.0	23.2	24.0	25.7	27.7	28.2
35°	708.1	338.3	39.8	27.6	23.2	21.1	20.8	22.2	24.0	25.5	25.8
37.5°	718.9	298.2	35.9	24.9	20.7	18.8	18.5	20.2	21.9	23.8	24.3
40°	739.4	266.8	33.0	22.4	18.6	16.6	16.0	17.2	19.6	22.1	22.7
42.5°	766.0	240.8	29.9	19.9	16.6	13.8	13.0	14.4	16.9	19.6	20.4
45°	791.4	218.4	26.5	17.1	13.9	10.6	10.3	12.2	13.5	16.1	16.8
47.5°	805.3	198.7	23.5	13.9	10.8	8.6	8.6	9.1	10.3	13.5	14.1
50°	800.6	182.9	20.4	10.3	7.5	6.6	6.6	6.4	8.3	10.8	11.3
52.5°	791.2	173.8	17.5	8.0	5.2	4.7	4.2	4.7	5.8	6.9	7.0
55°	789.8	172.2	14.7	6.4	3.6	3.1	2.3	2.3	2.3	2.2	1.9
57.5°	800.8	174.7	12.4	5.2	2.7	2.0	1.3	0.0	0.0	0.0	0.0
60°	812.1	177.4	10.6	3.6	1.9	1.1	0.2	0.0	0.0	0.0	0.0
62.5°	793.3	171.4	8.9	2.2	1.4	0.5	0.0	0.0	0.0	0.0	0.0
65°	696.8	145.9	7.0	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	495.7	97.7	4.7	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	226.2	40.9	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	48.4	12.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.9	9.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.3	1.6	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)