

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: P452450

Luminaire Tested: **GALN-SA3B-827-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9033 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

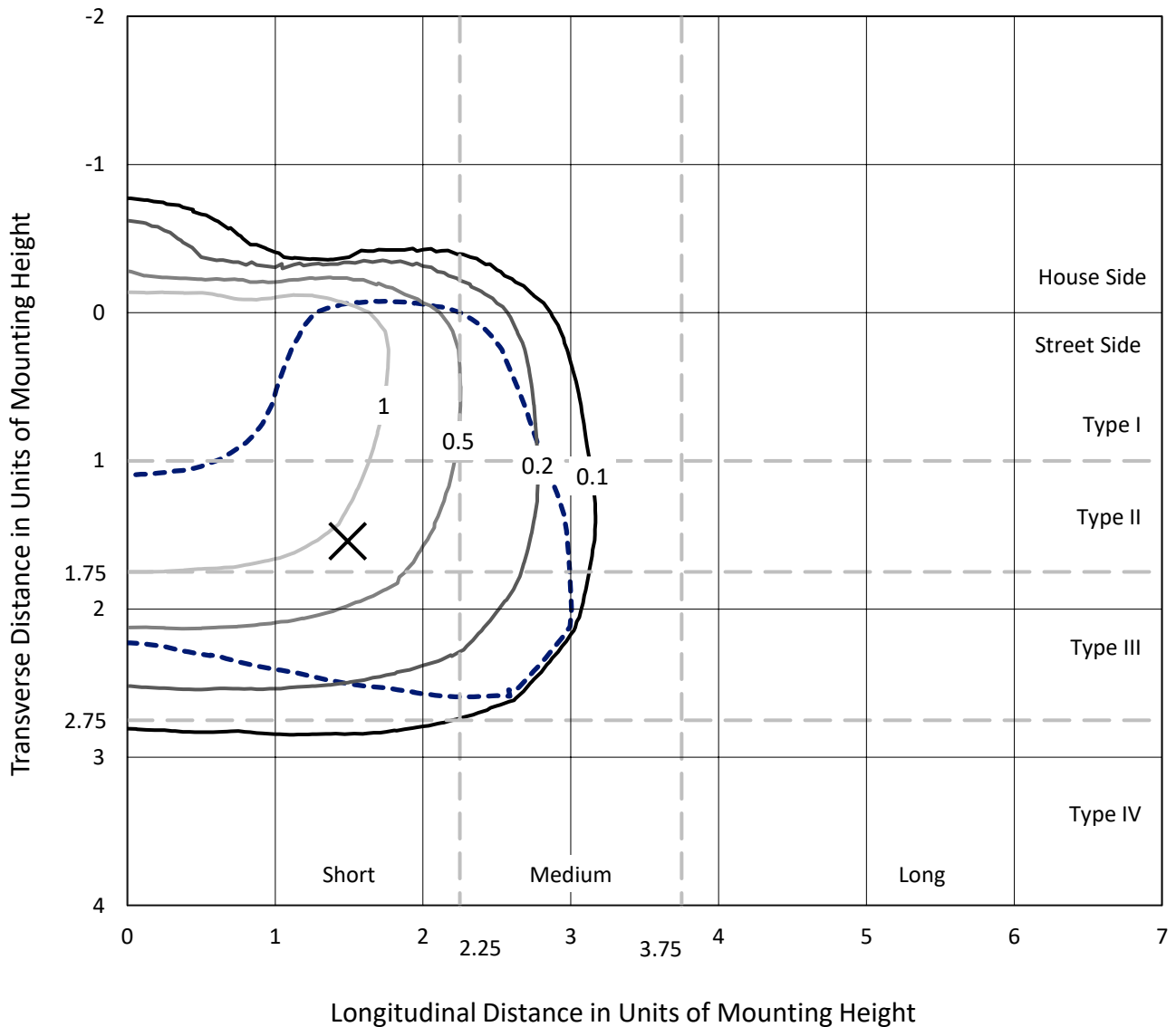
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

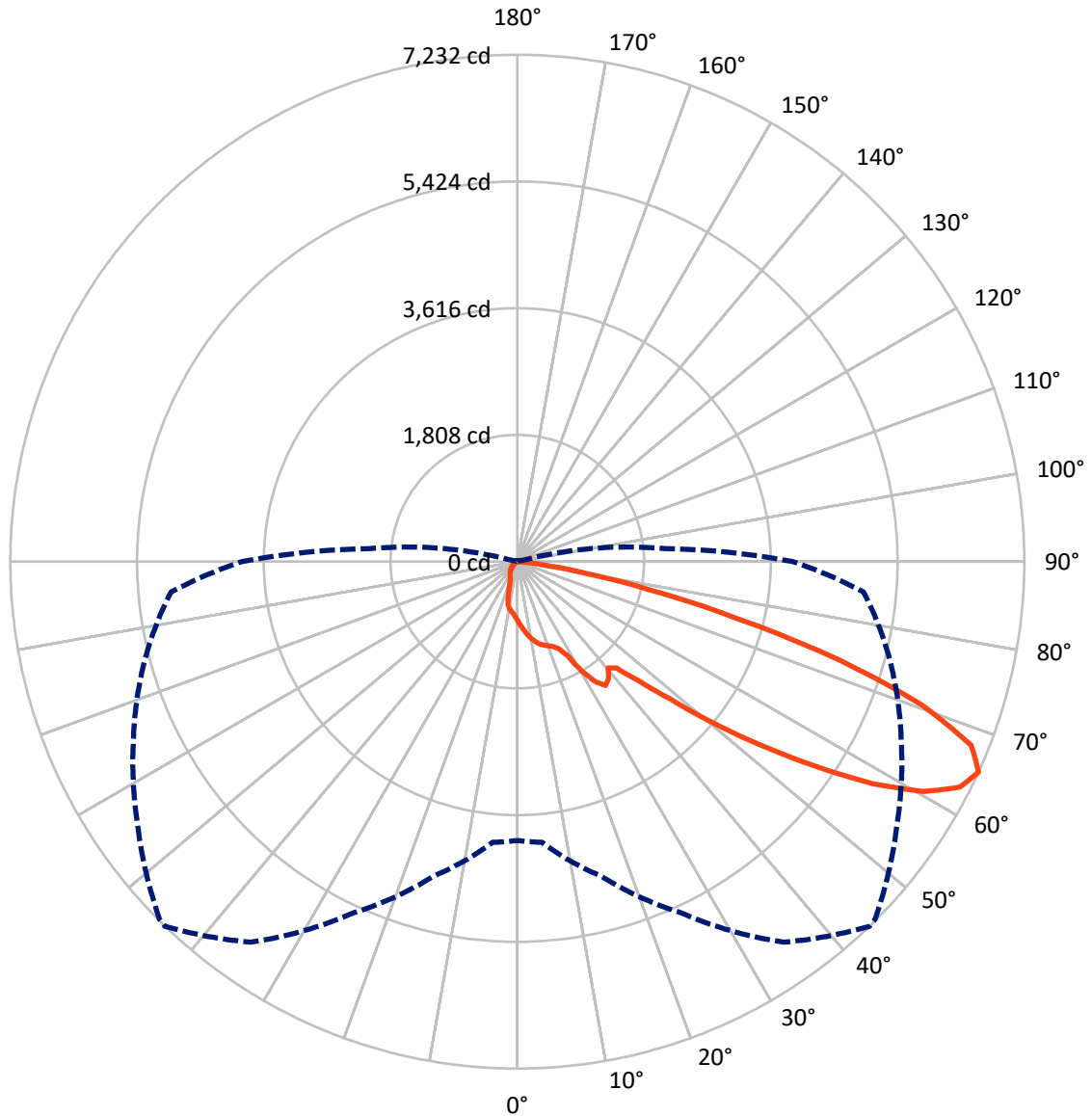
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	832.3	0.0	832.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	8200.8	0.0	8200.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	9033.0	0.0	9033.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	0.9
10°-20°	251.7	2.8
20°-30°	426.7	4.7
30°-40°	709.5	7.9
40°-50°	1238.8	13.7
50°-60°	2420.2	26.8
60°-70°	2808.0	31.1
70°-80°	1022.5	11.3
80°-90°	72.1	0.8
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°	9033.0	100.0
0°-180°	9033.0	100.0



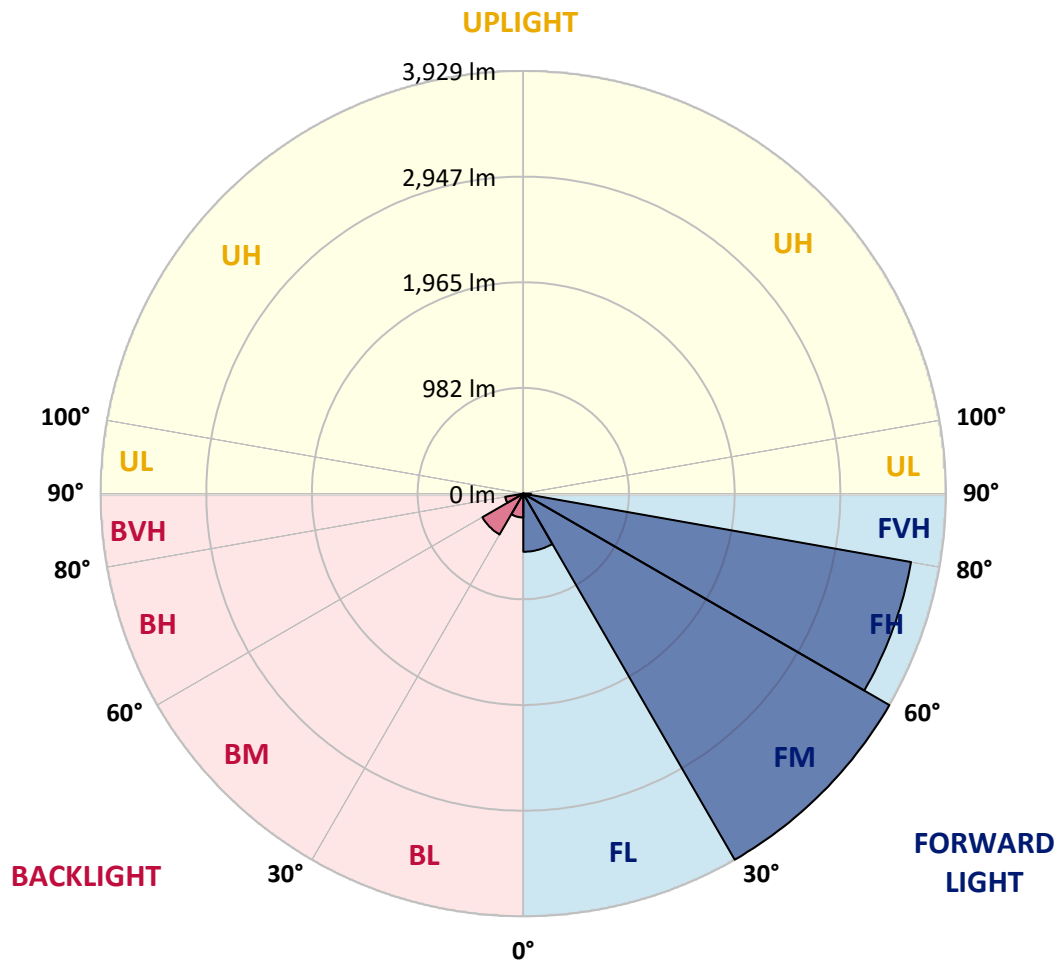
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.3	6.0			
FM (30°-60°)	3929.4	43.5			
FH (60°-80°)	3660.1	40.5			G2/5000
FVH (80°-90°)	71.1	0.8			G1/100
BL (0°-30°)	221.7	2.5	B1/500		
BM (30°-60°)	439.1	4.9	B1/1000		
BH (60°-80°)	170.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7
2.5°	946.3	942.2	940.1	929.1	920.8	910.4	910.4	897.3	882.1	865.6	850.4
5°	1051.9	1045.0	1036.0	1026.4	1007.0	979.4	979.4	951.8	920.1	891.8	860.7
7.5°	1153.4	1147.2	1132.0	1113.3	1081.6	1052.6	1050.5	1010.5	972.5	929.7	885.6
10°	1242.4	1237.6	1224.5	1188.6	1155.4	1117.5	1116.8	1071.9	1027.8	975.3	920.8
12.5°	1304.5	1305.2	1288.0	1253.5	1210.7	1174.8	1172.0	1127.8	1081.6	1025.0	958.0
15°	1348.7	1348.7	1330.8	1292.1	1253.5	1221.7	1219.0	1180.3	1132.7	1071.2	998.8
17.5°	1361.1	1365.3	1346.0	1311.4	1280.4	1252.8	1252.1	1219.6	1181.7	1122.3	1040.2
20°	1356.3	1360.4	1345.3	1318.3	1296.9	1281.1	1279.0	1265.9	1230.7	1174.8	1084.4
22.5°	1346.0	1350.1	1339.1	1323.2	1312.8	1317.7	1314.2	1325.2	1306.6	1239.0	1136.8
25°	1348.0	1352.2	1343.9	1334.9	1343.9	1373.6	1382.5	1430.2	1413.6	1320.4	1193.4
27.5°	1412.9	1421.2	1409.5	1413.6	1445.3	1514.4	1531.6	1613.8	1540.6	1423.9	1281.8
30°	1557.2	1551.6	1529.6	1549.6	1660.0	1806.3	1801.5	1788.4	1673.8	1543.4	1386.7
32.5°	1688.3	1683.5	1682.1	1768.4	1968.5	2039.6	2036.2	1909.2	1793.2	1680.0	1490.2
35°	1741.5	1722.8	1718.7	1927.8	2262.6	2168.7	2147.3	1958.9	1938.2	1829.1	1595.8
37.5°	1901.6	1888.5	1824.3	1954.0	2145.2	2114.2	2097.6	2044.5	2092.8	1960.9	1715.2
40°	2231.5	2194.9	2137.0	2010.0	1978.9	1992.0	2008.6	2154.2	2275.7	2141.1	1874.7
42.5°	2641.5	2633.2	2525.6	2288.8	2056.2	2074.1	2095.5	2383.4	2538.7	2412.4	2134.9
45°	3133.7	3145.4	2990.1	2710.5	2405.5	2420.6	2451.7	2721.6	2894.8	2834.1	2544.2
47.5°	3580.9	3572.0	3519.5	3228.9	2947.3	2913.5	2963.9	3155.7	3387.7	3397.3	3052.2
50°	4031.0	4078.6	4000.6	3886.7	3677.6	3606.5	3587.8	3681.7	4035.1	3988.9	3662.4
52.5°	4677.7	4702.6	4556.2	4527.2	4574.9	4344.3	4325.7	4348.5	4664.6	4505.8	4119.3
55°	5084.3	5069.8	5015.2	5241.6	5430.1	5142.2	5118.8	5027.0	5187.1	4871.0	4559.0
57.5°	5212.6	5233.3	5360.3	5769.7	6215.5	5971.2	5928.4	5667.5	5564.0	5211.3	4963.5
60°	5155.3	5193.3	5467.3	6076.1	6694.6	6658.0	6621.4	6183.1	5834.5	5495.6	5247.1
62.5°	4747.4	4800.6	5238.9	6021.6	6856.8	7085.2	7039.7	6504.7	6014.7	5633.7	5296.8
65°	3978.5	4017.8	4647.3	5526.7	6626.2	7231.6	7215.0	6605.5	6043.0	5507.4	4956.6
67.5°	2836.2	2970.1	3553.3	4657.7	5944.3	6981.7	7010.0	6484.7	5777.2	4961.4	4104.8
70°	1782.9	1874.0	2292.3	3334.5	4765.4	6125.1	6218.3	5931.9	5013.8	3867.4	2747.8
72.5°	850.4	918.0	1216.2	2110.7	3363.5	4819.2	4893.1	4869.6	3877.0	2436.5	1417.7
75°	378.9	404.5	580.5	1077.5	2171.5	3239.3	3430.5	3462.2	2422.7	1192.0	551.5
77.5°	193.3	194.0	272.0	521.8	1084.4	1932.7	1970.6	2081.7	1313.5	525.3	191.9
80°	102.8	109.7	144.3	246.4	562.5	951.8	947.0	1040.9	582.6	257.5	64.2
82.5°	46.2	51.1	81.4	129.1	274.7	361.0	389.3	425.9	249.9	164.3	28.3
85°	13.8	16.6	40.0	64.9	99.4	104.2	116.6	150.5	141.5	116.6	14.5
87.5°	2.1	2.1	16.6	17.9	14.5	18.6	19.3	21.4	45.6	42.8	7.6
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°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7
2.5°	842.1	837.3	820.0	805.5	793.1	785.5	776.5	771.0	768.2	766.2	766.8
5°	845.5	833.8	804.1	780.7	762.7	743.4	730.3	722.7	719.2	713.7	713.7
7.5°	864.9	846.2	804.8	768.9	737.9	711.6	686.8	677.8	671.6	670.2	668.8
10°	892.5	869.0	812.4	762.7	718.5	682.6	647.4	616.4	592.2	577.7	575.7
12.5°	927.0	893.2	824.1	758.6	702.0	638.5	545.3	482.5	440.4	427.3	429.3
15°	958.7	922.2	835.9	755.1	671.6	529.4	423.8	352.0	330.6	328.6	329.2
17.5°	996.7	953.2	849.7	750.3	588.1	404.5	314.7	295.4	299.6	306.5	305.8
20°	1036.0	986.3	866.2	721.3	469.4	304.4	278.2	280.2	286.4	292.7	294.0
22.5°	1078.1	1024.3	885.6	651.6	358.2	265.0	263.7	266.4	272.6	279.5	280.9
25°	1136.1	1071.9	900.1	560.5	271.3	245.0	247.8	252.6	258.1	265.7	267.1
27.5°	1210.7	1136.1	907.7	441.7	234.7	227.1	227.8	234.7	241.6	248.5	248.5
30°	1307.3	1212.7	892.5	334.1	216.7	209.8	207.1	211.2	220.2	227.1	227.8
32.5°	1393.6	1285.2	852.4	255.4	203.6	194.0	187.1	187.7	191.2	195.3	196.0
35°	1479.9	1355.6	784.1	214.7	189.8	178.8	168.4	162.9	160.1	158.1	160.1
37.5°	1590.3	1443.3	693.0	195.3	178.1	164.3	149.8	138.0	128.4	122.2	123.6
40°	1732.5	1564.8	585.3	182.9	167.0	150.5	131.1	116.0	99.4	93.9	91.1
42.5°	1967.2	1749.0	472.1	172.6	156.0	136.0	111.8	91.1	75.9	70.4	71.8
45°	2337.8	1981.7	363.8	161.5	144.9	120.1	93.9	71.8	59.4	56.6	58.0
47.5°	2829.3	2282.6	280.2	149.1	131.1	102.8	73.9	56.6	49.0	48.3	47.6
50°	3291.7	2562.8	234.0	135.3	114.6	85.6	60.7	47.6	42.8	42.1	42.1
52.5°	3710.0	2763.7	190.5	119.4	96.6	70.4	51.1	42.1	38.0	35.9	35.9
55°	4082.0	2894.8	154.6	100.1	75.9	55.9	44.2	38.0	33.1	30.4	29.7
57.5°	4363.0	2910.7	116.0	80.1	56.6	43.5	38.0	33.1	27.6	24.2	22.8
60°	4483.1	2773.4	85.6	60.7	42.1	34.5	30.4	26.9	20.7	17.3	16.6
62.5°	4362.3	2506.2	63.5	46.2	32.4	25.5	21.4	20.0	14.5	10.4	9.7
65°	3929.5	2120.4	50.4	35.2	24.2	18.6	13.8	13.1	9.0	4.8	4.1
67.5°	3148.1	1660.7	40.0	26.2	17.3	12.4	9.0	8.3	4.8	1.4	1.4
70°	2047.2	1061.6	32.4	19.3	11.0	8.3	5.5	4.1	2.8	0.7	0.0
72.5°	1012.6	496.3	26.2	15.2	7.6	4.1	2.1	1.4	2.1	0.0	0.0
75°	392.7	176.7	19.3	10.4	4.1	2.1	1.4	0.0	0.7	0.0	0.0
77.5°	130.5	58.7	11.7	5.5	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	48.3	22.8	6.2	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.3	9.0	4.1	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	5.5	2.8	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.1	2.8	2.1	1.4	0.7	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)