

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: P450441

Luminaire Tested: **GALN-SA1B-727-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3855 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

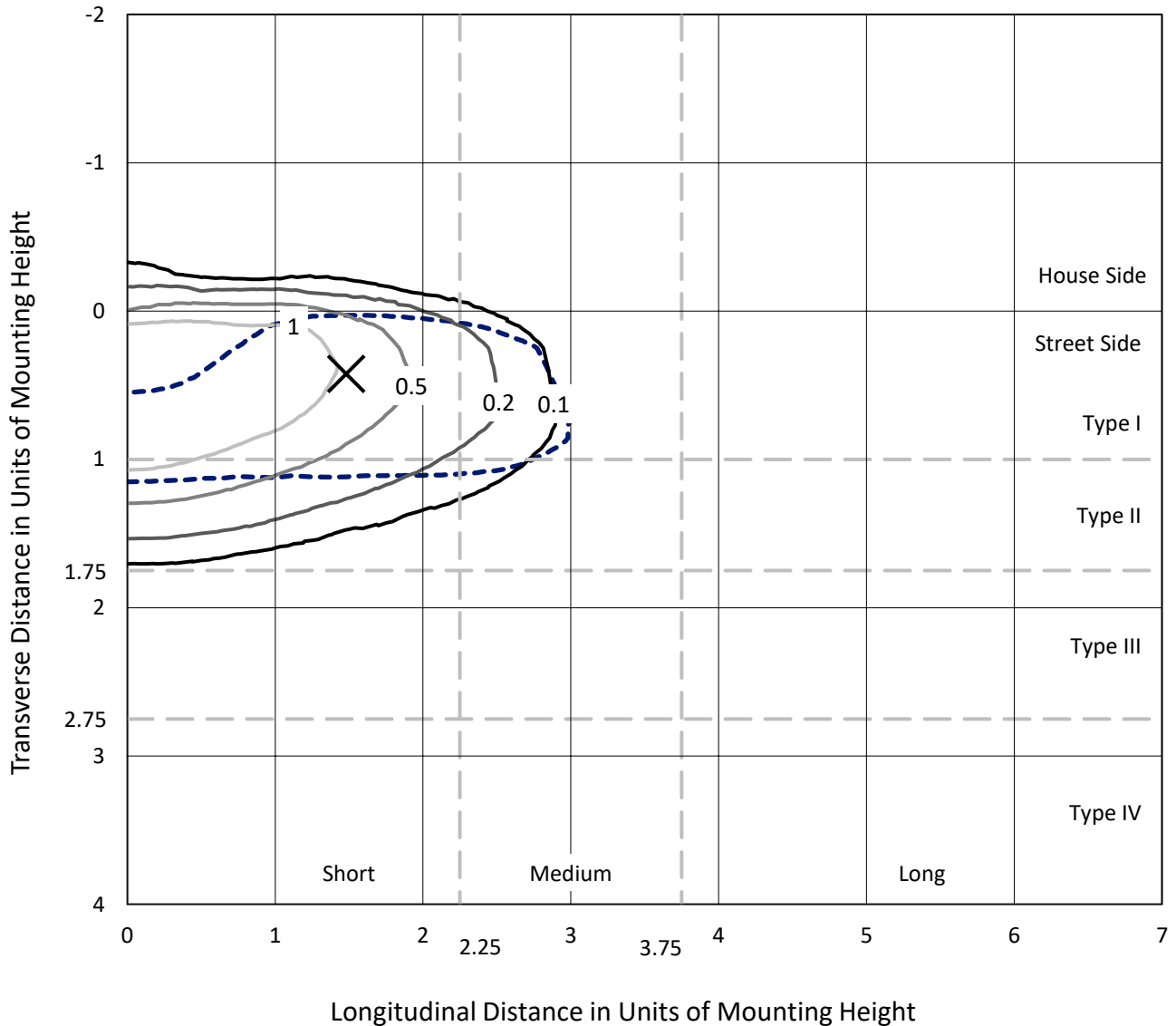
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

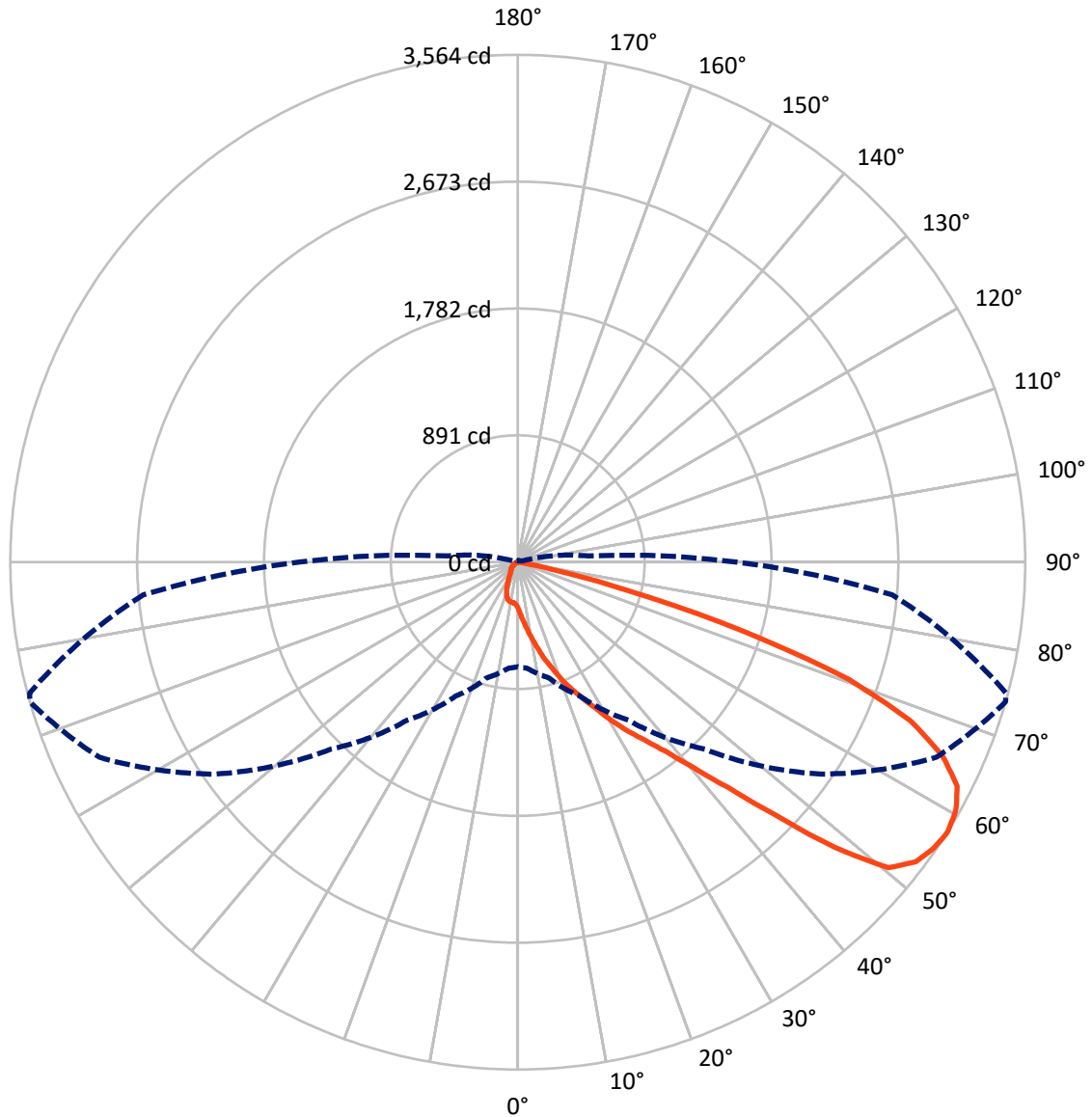
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	222.4	0.0	222.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	3632.7	0.0	3632.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	3855.0	0.0	3855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	153.6	4.0
20°-30°	328.7	8.5
30°-40°	604.1	15.7
40°-50°	926.1	24.0
50°-60°	979.7	25.4
60°-70°	639.8	16.6
70°-80°	174.8	4.5
80°-90°	9.4	0.2
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°	3855.0	100.0
0°-180°	3855.0	100.0

**Coefficient of Utilization**



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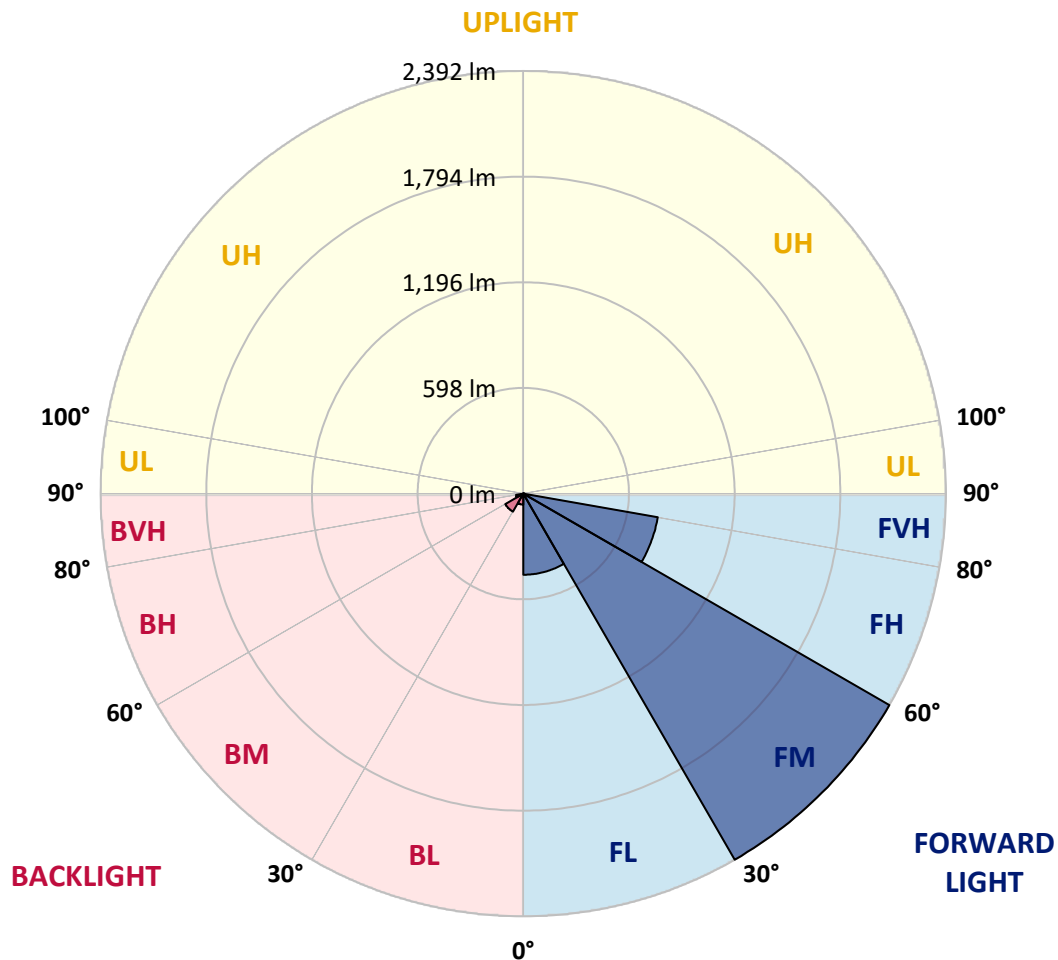
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.1	11.9			
FM (30°-60°)	2392.1	62.1			
FH (60°-80°)	772.8	20.0			G1/1800
FVH (80°-90°)	8.6	0.2			G0/10
BL (0°-30°)	62.1	1.6	B0/110		
BM (30°-60°)	117.7	3.1	B0/220		
BH (60°-80°)	41.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9
2.5°	472.4	468.2	459.7	456.7	444.2	424.8	407.8	384.9	366.8	364.9	343.1
5°	632.7	623.1	619.1	599.9	569.8	541.6	493.2	456.5	414.1	410.9	367.0
7.5°	787.0	773.7	769.7	751.6	716.5	672.1	609.2	542.4	475.4	469.2	399.2
10°	898.8	900.7	893.5	881.5	853.0	807.8	730.3	639.0	543.5	535.8	435.4
12.5°	978.9	978.7	980.0	979.7	964.6	930.2	848.8	743.6	618.6	603.4	477.0
15°	1031.1	1031.9	1035.9	1049.7	1051.3	1030.0	962.2	843.7	705.6	686.7	521.9
17.5°	1083.8	1089.4	1095.8	1108.8	1120.5	1112.0	1064.1	948.1	784.4	770.3	570.1
20°	1170.8	1178.6	1174.8	1182.8	1188.9	1189.7	1152.7	1044.4	879.9	856.2	625.2
22.5°	1310.0	1309.8	1300.2	1285.8	1273.8	1273.3	1239.8	1143.4	966.7	943.8	680.6
25°	1486.0	1486.8	1468.1	1427.1	1397.3	1360.9	1322.3	1230.2	1059.6	1031.4	738.9
27.5°	1687.7	1682.7	1654.4	1598.0	1538.9	1476.7	1421.0	1331.1	1158.1	1134.6	805.7
30°	1869.0	1867.1	1834.1	1765.2	1687.4	1624.9	1544.3	1457.5	1285.5	1256.8	880.5
32.5°	2037.7	2040.4	1994.6	1923.3	1848.2	1776.1	1690.9	1578.3	1410.6	1369.9	961.9
35°	2169.5	2172.1	2124.7	2065.4	1988.2	1928.3	1847.1	1707.1	1534.1	1499.8	1055.6
37.5°	2239.7	2243.2	2215.8	2171.1	2122.9	2092.8	2017.2	1873.0	1684.3	1663.5	1166.3
40°	2253.0	2257.0	2245.1	2233.1	2230.4	2252.0	2229.9	2068.3	1892.4	1859.9	1331.3
42.5°	2213.1	2218.4	2223.8	2250.4	2304.7	2383.7	2460.6	2333.4	2160.4	2116.8	1533.1
45°	2108.2	2107.7	2128.7	2197.7	2319.3	2488.1	2701.8	2665.3	2525.6	2473.7	1818.1
47.5°	1928.9	1926.2	1971.7	2069.9	2259.4	2507.2	2898.5	3068.3	2991.6	2943.7	2124.5
50°	1655.5	1668.6	1740.1	1877.2	2110.6	2449.2	2959.2	3332.6	3374.1	3323.3	2372.0
52.5°	1335.3	1334.8	1447.1	1633.2	1890.3	2321.4	2916.8	3380.5	3498.4	3459.5	2493.9
55°	988.2	995.2	1112.0	1299.7	1604.1	2088.3	2778.7	3331.2	3545.8	3518.4	2574.3
57°	735.1	747.4	841.1	1039.6	1355.0	1857.5	2594.8	3243.2	3564.4	3549.5	2641.1
57.5°	686.2	686.7	778.0	958.4	1282.1	1768.9	2542.1	3206.4	3563.9	3555.6	2652.0
60°	422.4	435.7	498.8	647.8	938.5	1380.6	2188.9	2995.4	3536.2	3548.2	2698.6
62.5°	252.9	258.4	299.4	390.5	605.0	1007.7	1791.3	2725.2	3464.1	3500.5	2695.4
65°	162.6	164.0	182.6	236.3	378.2	681.1	1380.3	2368.3	3277.5	3344.6	2590.0
67.5°	125.6	127.8	135.2	155.2	219.3	424.3	976.3	1987.4	2975.7	3062.2	2334.5
70°	111.5	112.6	115.2	121.6	145.1	239.5	607.4	1552.5	2467.6	2492.0	1826.9
72.5°	91.0	94.0	102.2	104.3	115.0	149.6	338.0	1042.0	1657.9	1664.0	1022.1
75°	70.5	71.1	83.3	89.4	96.9	103.0	150.9	525.4	796.3	753.8	393.9
77.5°	52.7	55.1	60.7	68.4	79.0	73.7	67.6	198.0	247.3	242.7	114.4
80°	33.8	35.1	42.3	51.4	61.5	48.2	38.1	58.0	54.3	55.9	27.4
82.5°	17.0	17.3	27.1	41.8	39.1	24.2	24.0	23.7	20.2	20.0	12.8
85°	1.9	4.0	17.6	24.0	17.6	8.0	11.2	10.9	10.6	10.9	7.5
87.5°	0.3	0.3	2.9	3.5	2.4	2.7	3.2	3.5	4.3	4.0	3.2
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°	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9
2.5°	332.4	321.8	302.1	283.2	269.1	260.0	248.3	244.1	237.9	237.1	234.2
5°	346.8	326.6	292.2	265.1	243.3	226.8	212.4	200.4	190.8	188.7	189.8
7.5°	367.3	337.2	289.3	252.3	222.0	193.8	170.9	156.8	146.7	142.9	143.5
10°	390.5	351.3	288.8	238.7	192.4	157.8	132.8	120.3	114.4	112.3	109.9
12.5°	417.9	367.6	287.5	217.7	160.0	125.9	108.1	100.6	95.0	93.4	93.4
15°	448.7	384.9	281.1	191.6	129.9	104.1	92.1	86.2	84.4	82.8	82.8
17.5°	480.9	401.9	267.8	159.4	107.8	89.2	81.7	78.3	75.6	73.7	73.7
20°	517.7	418.7	246.5	131.0	91.0	79.6	73.7	69.7	67.6	66.0	65.5
22.5°	552.5	432.2	219.3	107.5	79.3	71.6	66.3	62.0	59.9	59.1	59.1
25°	588.7	440.5	186.6	88.9	72.4	64.9	59.1	55.6	53.8	53.2	53.0
27.5°	623.9	445.3	157.8	77.7	66.0	58.8	53.2	50.6	48.7	48.2	48.4
30°	666.5	446.1	129.9	69.7	60.4	53.0	47.9	45.5	44.4	43.9	43.7
32.5°	709.6	445.0	109.1	64.9	55.1	47.9	43.7	41.8	41.0	40.2	40.2
35°	758.0	439.4	92.9	60.2	50.0	43.7	39.9	38.3	37.3	36.5	36.2
37.5°	818.2	436.5	83.6	54.8	45.5	39.7	36.2	34.6	33.8	32.7	32.5
40°	912.9	449.5	80.6	50.0	41.0	35.9	32.7	30.9	29.8	28.7	28.5
42.5°	1031.1	472.4	75.9	45.2	37.0	32.5	29.3	27.1	25.3	24.0	23.4
45°	1184.1	502.5	68.4	40.2	33.5	28.7	25.8	23.2	20.8	19.7	19.4
47.5°	1344.6	531.5	61.7	36.2	29.8	25.6	22.4	19.4	17.3	16.5	16.2
50°	1443.1	537.4	57.5	31.7	26.1	22.1	18.9	16.2	14.9	14.1	14.1
52.5°	1488.1	528.1	51.6	27.7	22.6	19.4	16.2	14.1	13.3	12.8	12.5
55°	1519.5	513.7	43.9	24.0	19.4	16.5	14.4	12.8	11.7	11.2	10.9
57°	1537.9	494.3	38.1	21.0	16.8	14.4	12.8	11.4	10.4	9.3	9.3
57.5°	1538.7	486.8	36.5	20.8	16.0	13.8	12.5	11.2	9.8	8.8	8.5
60°	1515.0	435.7	29.3	17.6	12.8	11.7	10.4	8.8	6.9	5.9	5.6
62.5°	1438.9	370.8	24.2	14.9	10.4	9.0	7.5	6.7	4.8	3.5	3.5
65°	1323.6	300.8	20.8	12.0	8.5	6.7	5.1	4.8	2.9	1.6	1.3
67.5°	1157.0	234.2	17.6	9.8	7.2	4.8	3.5	3.2	1.6	0.5	0.0
70°	881.5	159.7	14.6	8.0	5.3	3.5	2.4	1.9	1.1	0.3	0.0
72.5°	508.1	87.8	12.2	6.1	4.0	2.7	1.9	1.1	1.1	0.0	0.0
75°	181.5	37.8	9.3	4.5	3.2	2.1	1.3	0.5	0.8	0.3	0.0
77.5°	57.8	20.2	6.1	3.5	2.7	1.6	1.1	0.5	0.5	0.3	0.0
80°	17.0	10.6	3.7	2.9	1.9	1.3	0.8	0.3	0.5	0.3	0.0
82.5°	9.3	5.3	2.9	2.1	1.9	1.1	0.8	0.3	0.3	0.3	0.0
85°	4.8	3.2	2.4	2.1	1.9	1.1	0.8	0.3	0.0	0.3	0.3
87.5°	2.7	2.4	2.4	2.1	1.9	1.3	0.8	0.3	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)