

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: P450296

Luminaire Tested: **GALN-SA1A-750-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450296  
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-SA1A-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA 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: 3705 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

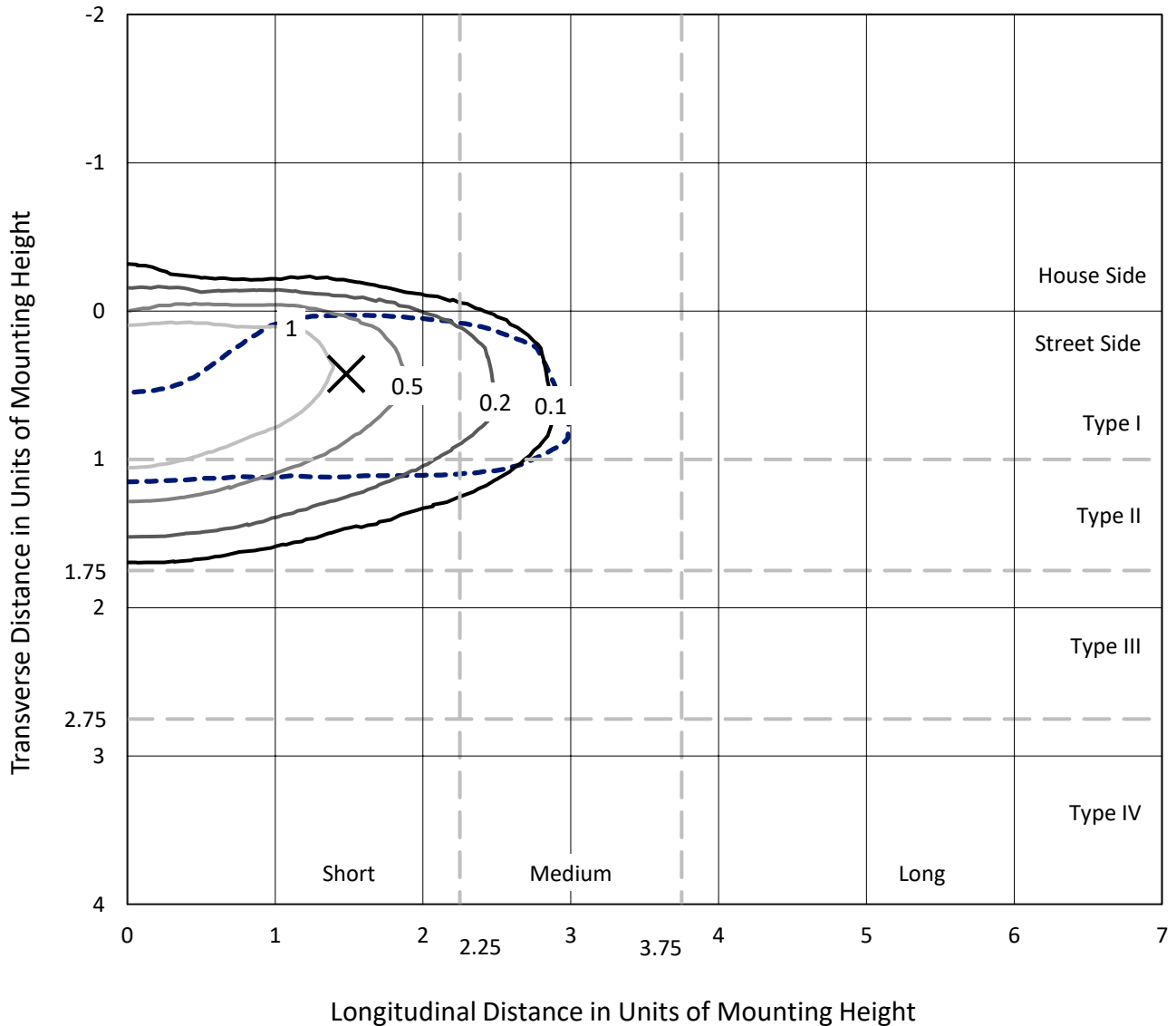
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

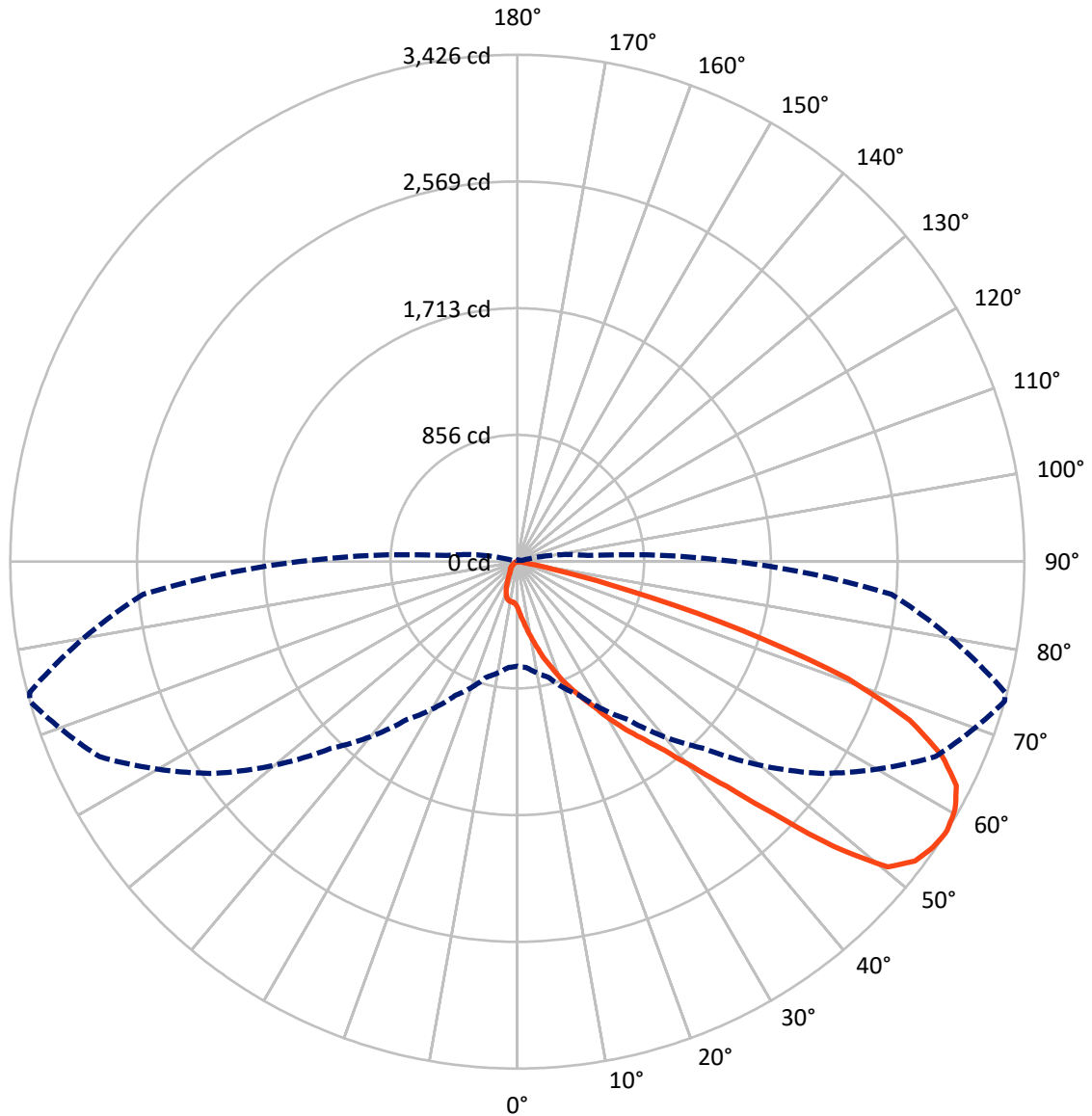
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type 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	213.7	0.0	213.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	3491.3	0.0	3491.3
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	3705.0	0.0	3705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.0
10°-20°	147.6	4.0
20°-30°	315.9	8.5
30°-40°	580.6	15.7
40°-50°	890.0	24.0
50°-60°	941.5	25.4
60°-70°	614.9	16.6
70°-80°	168.0	4.5
80°-90°	9.1	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°	3705.0	100.0
0°-180°	3705.0	100.0

**Coefficient of Utilization**



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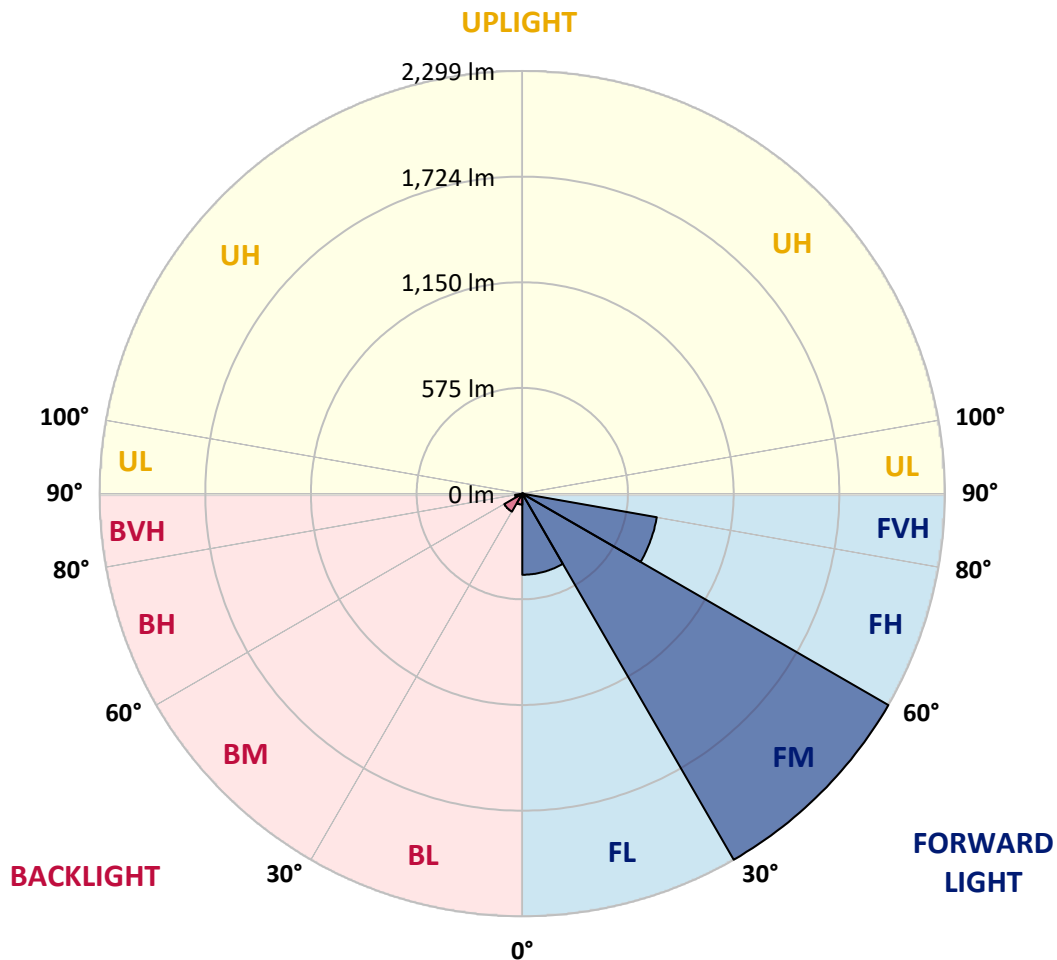
CATALOG NUMBER: GALN-SA1A-750-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.3	11.9			
FM (30°-60°)	2299.0	62.1			
FH (60°-80°)	742.7	20.0			G1/1800
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	59.7	1.6	B0/110		
BM (30°-60°)	113.1	3.1	B0/220		
BH (60°-80°)	40.1	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°	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3
2.5°	454.1	450.0	441.8	439.0	426.9	408.3	391.9	369.9	352.5	350.7	329.7
5°	608.0	598.8	595.0	576.6	547.7	520.6	474.0	438.7	398.0	395.0	352.8
7.5°	756.4	743.6	739.8	722.4	688.6	645.9	585.5	521.3	456.9	451.0	383.7
10°	863.8	865.6	858.7	847.2	819.8	776.4	701.9	614.2	522.3	514.9	418.5
12.5°	940.8	940.6	941.9	941.6	927.0	894.0	815.8	714.7	594.5	579.9	458.4
15°	991.0	991.7	995.6	1008.9	1010.4	990.0	924.7	810.9	678.1	660.0	501.6
17.5°	1041.6	1047.0	1053.1	1065.7	1076.9	1068.7	1022.7	911.2	753.9	740.3	547.9
20°	1125.3	1132.7	1129.1	1136.8	1142.7	1143.4	1107.9	1003.8	845.7	822.9	600.9
22.5°	1259.1	1258.8	1249.6	1235.8	1224.3	1223.8	1191.5	1098.9	929.1	907.1	654.1
25°	1428.1	1428.9	1411.0	1371.6	1343.0	1307.9	1270.8	1182.3	1018.4	991.2	710.1
27.5°	1622.0	1617.2	1590.1	1535.8	1479.1	1419.2	1365.7	1279.3	1113.0	1090.5	774.3
30°	1796.2	1794.5	1762.7	1696.5	1621.8	1561.7	1484.2	1400.8	1235.5	1207.9	846.2
32.5°	1958.4	1961.0	1917.0	1848.4	1776.3	1707.0	1625.1	1516.9	1355.8	1316.6	924.5
35°	2085.0	2087.6	2042.1	1985.0	1910.8	1853.3	1775.3	1640.7	1474.4	1441.4	1014.5
37.5°	2152.6	2155.9	2129.6	2086.6	2040.3	2011.4	1938.7	1800.1	1618.7	1598.8	1120.9
40°	2165.4	2169.2	2157.7	2146.2	2143.6	2164.3	2143.1	1987.8	1818.8	1787.6	1279.5
42.5°	2127.0	2132.1	2137.2	2162.8	2215.0	2291.0	2364.9	2242.6	2076.4	2034.4	1473.4
45°	2026.2	2025.7	2045.9	2112.2	2229.1	2391.2	2596.7	2561.6	2427.3	2377.4	1747.4
47.5°	1853.8	1851.2	1895.0	1989.4	2171.5	2409.7	2785.7	2948.9	2875.2	2829.2	2041.8
50°	1591.1	1603.6	1672.4	1804.2	2028.5	2353.9	2844.0	3202.9	3242.8	3194.0	2279.7
52.5°	1283.4	1282.9	1390.8	1569.6	1816.7	2231.1	2803.3	3249.0	3362.3	3324.9	2396.9
55°	949.8	956.4	1068.7	1249.1	1541.7	2007.0	2670.6	3201.6	3407.8	3381.5	2474.1
57°	706.5	718.3	808.3	999.2	1302.3	1785.2	2493.8	3117.0	3425.7	3411.4	2538.3
57.5°	659.5	660.0	747.7	921.1	1232.2	1700.1	2443.2	3081.7	3425.2	3417.3	2548.8
60°	406.0	418.7	479.4	622.6	902.0	1326.8	2103.7	2878.8	3398.6	3410.1	2593.6
62.5°	243.0	248.4	287.8	375.3	581.4	968.5	1721.6	2619.2	3329.3	3364.3	2590.5
65°	156.3	157.6	175.5	227.2	363.5	654.6	1326.6	2276.1	3150.0	3214.4	2489.2
67.5°	120.7	122.8	129.9	149.1	210.8	407.7	938.3	1910.1	2859.9	2943.0	2243.6
70°	107.2	108.2	110.8	116.9	139.4	230.2	583.7	1492.1	2371.5	2395.1	1755.8
72.5°	87.5	90.3	98.2	100.3	110.5	143.8	324.9	1001.5	1593.4	1599.3	982.3
75°	67.8	68.3	80.1	85.9	93.1	99.0	145.0	505.0	765.4	724.4	378.6
77.5°	50.6	53.0	58.3	65.7	76.0	70.9	65.0	190.3	237.6	233.3	110.0
80°	32.5	33.8	40.7	49.4	59.1	46.3	36.6	55.8	52.2	53.7	26.3
82.5°	16.4	16.6	26.1	40.2	37.6	23.3	23.0	22.8	19.4	19.2	12.3
85°	1.8	3.8	16.9	23.0	16.9	7.7	10.7	10.5	10.2	10.5	7.2
87.5°	0.3	0.3	2.8	3.3	2.3	2.6	3.1	3.3	4.1	3.8	3.1
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°	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3
2.5°	319.5	309.3	290.3	272.2	258.6	249.9	238.7	234.6	228.7	227.9	225.1
5°	333.3	313.9	280.9	254.8	233.8	217.9	204.1	192.6	183.4	181.4	182.4
7.5°	353.0	324.1	278.1	242.5	213.3	186.2	164.2	150.7	140.9	137.4	137.9
10°	375.3	337.7	277.5	229.5	184.9	151.7	127.6	115.6	110.0	107.9	105.6
12.5°	401.6	353.3	276.3	209.2	153.7	121.0	103.9	96.7	91.3	89.8	89.8
15°	431.3	369.9	270.1	184.2	124.8	100.0	88.5	82.9	81.1	79.6	79.6
17.5°	462.2	386.3	257.3	153.2	103.6	85.7	78.5	75.2	72.6	70.9	70.9
20°	497.5	402.4	236.9	125.9	87.5	76.5	70.9	67.0	65.0	63.4	62.9
22.5°	531.0	415.4	210.8	103.3	76.2	68.8	63.7	59.6	57.6	56.8	56.8
25°	565.8	423.4	179.3	85.4	69.6	62.4	56.8	53.5	51.7	51.2	50.9
27.5°	599.6	428.0	151.7	74.7	63.4	56.5	51.2	48.6	46.8	46.3	46.6
30°	640.5	428.7	124.8	67.0	58.1	50.9	46.0	43.7	42.7	42.2	42.0
32.5°	682.0	427.7	104.9	62.4	53.0	46.0	42.0	40.2	39.4	38.6	38.6
35°	728.5	422.3	89.3	57.8	48.1	42.0	38.4	36.8	35.8	35.0	34.8
37.5°	786.3	419.5	80.3	52.7	43.7	38.1	34.8	33.3	32.5	31.5	31.2
40°	877.4	432.1	77.5	48.1	39.4	34.5	31.5	29.7	28.6	27.6	27.4
42.5°	991.0	454.1	72.9	43.5	35.6	31.2	28.1	26.1	24.3	23.0	22.5
45°	1138.1	483.0	65.7	38.6	32.2	27.6	24.8	22.3	20.0	18.9	18.7
47.5°	1292.3	510.8	59.3	34.8	28.6	24.6	21.5	18.7	16.6	15.9	15.6
50°	1387.0	516.5	55.3	30.4	25.1	21.2	18.2	15.6	14.3	13.6	13.6
52.5°	1430.2	507.5	49.6	26.6	21.7	18.7	15.6	13.6	12.8	12.3	12.0
55°	1460.4	493.7	42.2	23.0	18.7	15.9	13.8	12.3	11.3	10.7	10.5
57°	1478.0	475.0	36.6	20.2	16.1	13.8	12.3	11.0	10.0	9.0	9.0
57.5°	1478.8	467.9	35.0	20.0	15.3	13.3	12.0	10.7	9.5	8.4	8.2
60°	1456.0	418.7	28.1	16.9	12.3	11.3	10.0	8.4	6.7	5.6	5.4
62.5°	1382.9	356.3	23.3	14.3	10.0	8.7	7.2	6.4	4.6	3.3	3.3
65°	1272.1	289.1	20.0	11.5	8.2	6.4	4.9	4.6	2.8	1.5	1.3
67.5°	1112.0	225.1	16.9	9.5	6.9	4.6	3.3	3.1	1.5	0.5	0.0
70°	847.2	153.5	14.1	7.7	5.1	3.3	2.3	1.8	1.0	0.3	0.0
72.5°	488.3	84.4	11.8	5.9	3.8	2.6	1.8	1.0	1.0	0.0	0.0
75°	174.5	36.3	9.0	4.3	3.1	2.0	1.3	0.5	0.8	0.3	0.0
77.5°	55.5	19.4	5.9	3.3	2.6	1.5	1.0	0.5	0.5	0.3	0.0
80°	16.4	10.2	3.6	2.8	1.8	1.3	0.8	0.3	0.5	0.3	0.0
82.5°	9.0	5.1	2.8	2.0	1.8	1.0	0.8	0.3	0.3	0.3	0.0
85°	4.6	3.1	2.3	2.0	1.8	1.0	0.8	0.3	0.0	0.3	0.3
87.5°	2.6	2.3	2.3	2.0	1.8	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)