

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: P527375

Luminaire Tested: **GALN-SA2B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4919 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

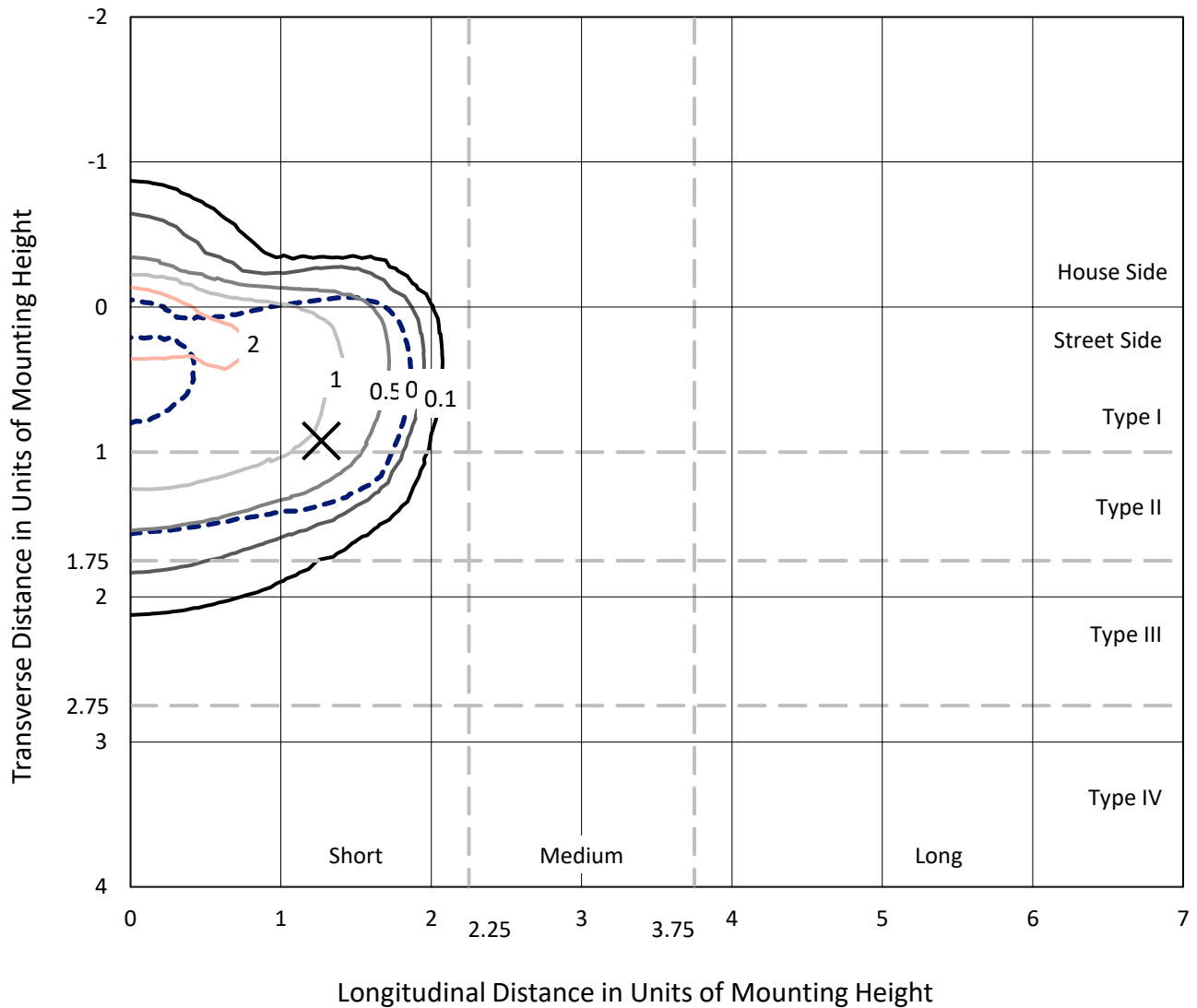
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

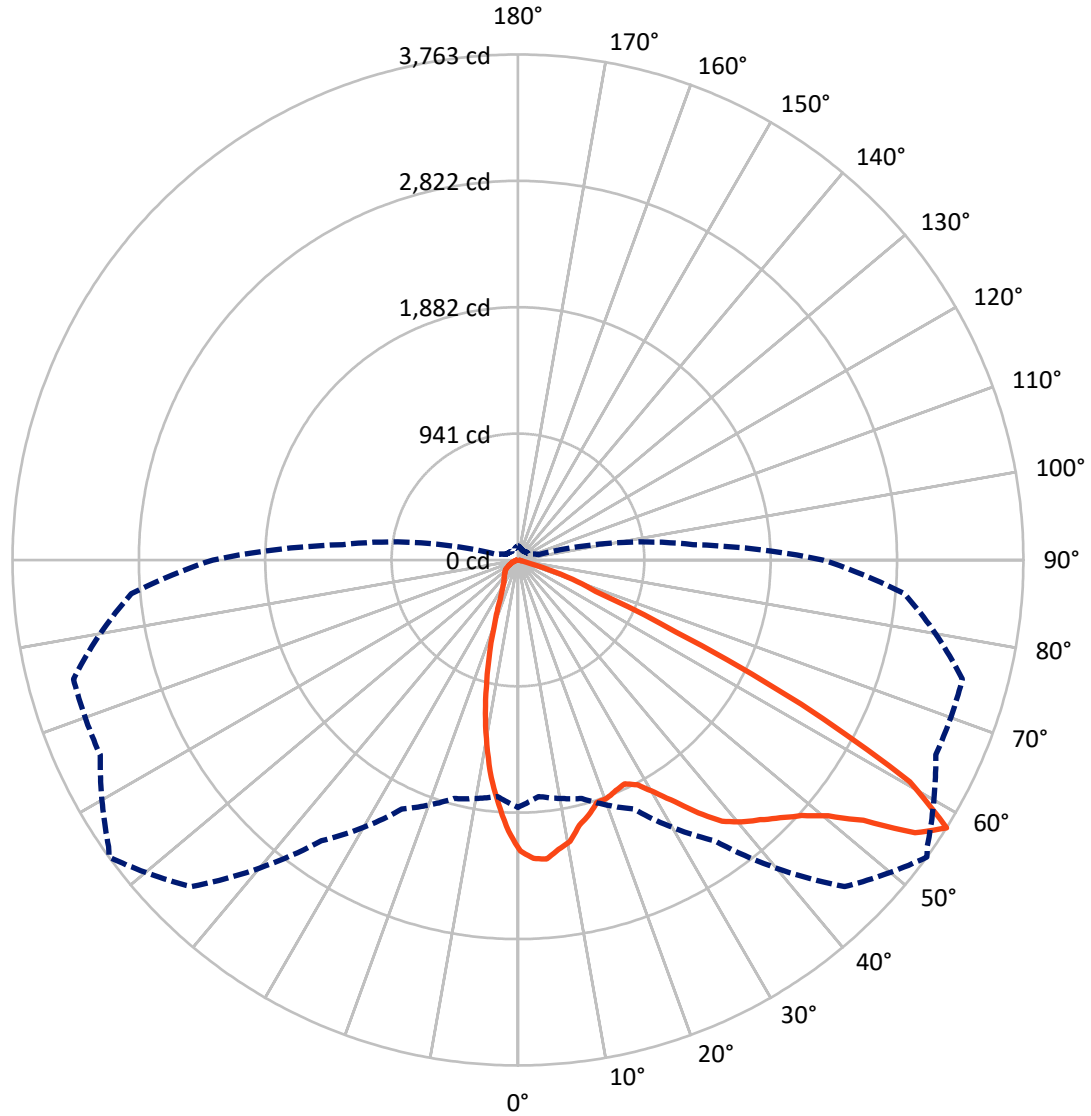
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	695.1	0.0	695.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	4223.9	0.0	4223.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	4919.0	0.0	4919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	3.7
10°-20°	387.1	7.9
20°-30°	513.0	10.4
30°-40°	745.6	15.2
40°-50°	1105.6	22.5
50°-60°	1382.5	28.1
60°-70°	545.3	11.1
70°-80°	54.3	1.1
80°-90°	4.2	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°	4919.0	100.0
0°-180°	4919.0	100.0

**Coefficient of Utilization**

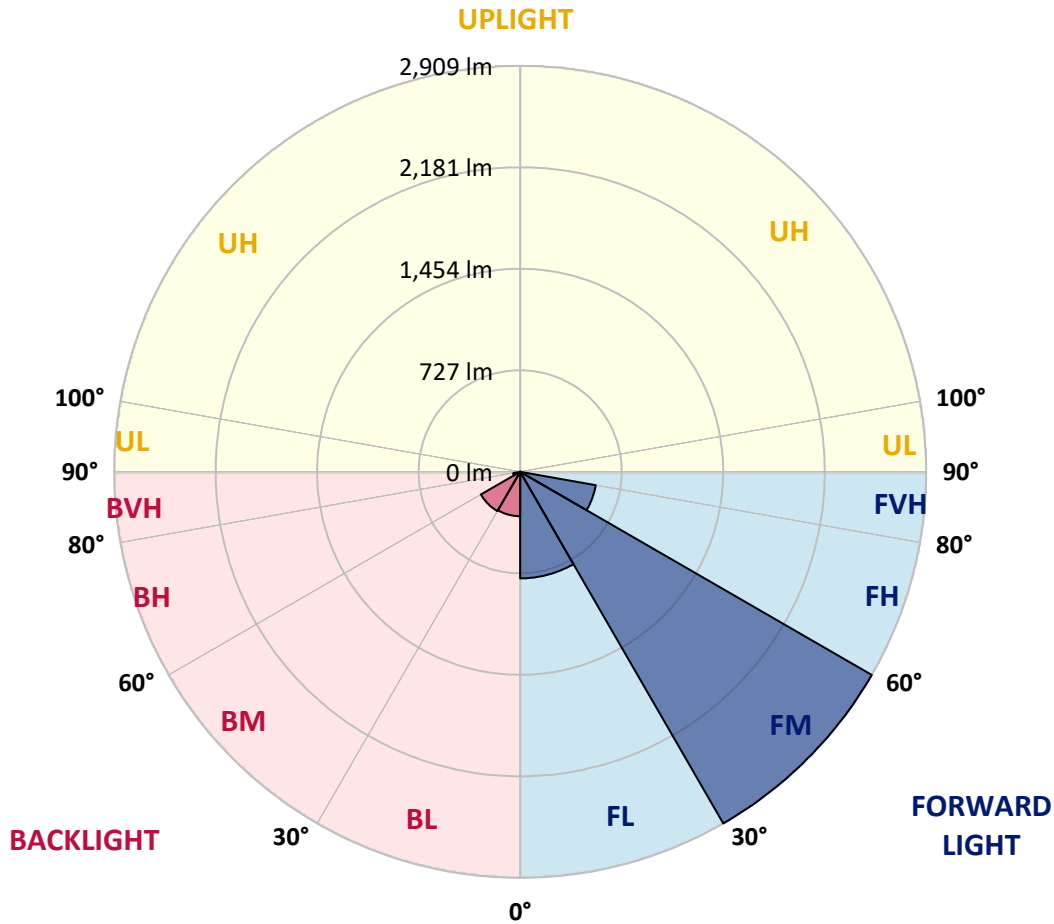


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.6	15.5			
FM (30°-60°)	2908.6	59.1			
FH (60°-80°)	549.8	11.2			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	317.9	6.5	B1/500		
BM (30°-60°)	325.1	6.6	B1/1000		
BH (60°-80°)	49.8	1.0	B0/110		G0/110
BVH (80°-90°)	2.3	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9
2.5°	2293.1	2269.3	2271.2	2262.9	2252.0	2260.2	2224.5	2232.7	2231.8	2183.4	2151.3
5°	2235.5	2261.1	2234.6	2256.5	2235.5	2258.4	2236.4	2219.9	2193.4	2157.7	2098.3
7.5°	2137.6	2112.9	2120.2	2147.7	2152.3	2203.5	2176.0	2197.1	2186.1	2115.7	2034.3
10°	1941.0	1935.5	1972.1	2008.6	2053.5	2108.3	2129.4	2117.5	2109.3	2082.7	1973.9
12.5°	1790.0	1805.6	1804.7	1865.0	1941.0	1972.1	2026.9	2025.1	2070.8	2021.5	1917.2
15°	1646.4	1654.7	1693.1	1730.6	1814.7	1903.5	1971.1	1980.3	2035.2	2000.4	1873.3
17.5°	1558.6	1546.7	1576.9	1621.7	1707.7	1823.9	1898.9	1920.8	1995.8	1988.5	1823.0
20°	1471.7	1471.7	1496.4	1549.5	1628.1	1758.9	1892.5	1886.1	1995.8	1974.8	1769.0
22.5°	1442.5	1457.1	1463.5	1503.7	1597.0	1709.5	1865.0	1876.9	2011.4	1968.4	1745.2
25°	1482.7	1463.5	1465.3	1497.3	1585.1	1685.8	1844.9	1871.4	2039.7	2000.4	1726.0
27.5°	1489.1	1508.3	1513.8	1535.8	1594.3	1693.1	1895.2	1949.2	2110.2	2075.4	1731.5
30°	1544.9	1564.1	1563.2	1600.7	1640.9	1752.5	2007.7	2018.7	2255.6	2169.6	1765.3
32.5°	1612.6	1632.7	1639.1	1683.0	1715.0	1861.4	2144.9	2173.3	2395.6	2317.8	1854.1
35°	1696.7	1689.4	1718.7	1762.6	1831.2	2020.5	2312.3	2359.9	2546.5	2509.9	1945.5
37.5°	1801.9	1792.8	1821.1	1892.5	1985.8	2209.0	2466.9	2498.0	2656.2	2688.3	2114.7
40°	1876.0	1879.7	1965.7	2061.7	2160.5	2388.2	2564.8	2595.0	2733.1	2854.7	2242.8
42.5°	1999.5	2022.4	2125.7	2242.8	2346.2	2522.7	2644.4	2673.6	2768.7	2988.3	2415.7
45°	2178.8	2168.7	2283.1	2413.9	2528.2	2662.6	2738.6	2728.5	2789.8	3120.9	2524.5
47.5°	2409.3	2411.1	2487.0	2598.6	2717.5	2784.3	2843.8	2808.1	2833.7	3260.8	2670.0
50°	2566.6	2580.3	2641.6	2755.9	2815.4	2917.8	2993.8	2971.8	2963.6	3345.0	2761.4
52.5°	2606.8	2648.0	2680.9	2823.6	2962.7	3124.6	3221.5	3268.2	3121.8	3373.4	2877.6
55°	2303.2	2339.8	2455.9	2651.7	3018.5	3452.0	3585.6	3586.5	3328.5	3499.6	2959.0
57.5°	1841.3	1767.2	1838.5	2046.1	2552.0	3438.3	3763.0	3720.0	3431.9	3425.5	2888.6
60°	1273.2	1254.9	1259.5	1341.8	1766.3	2734.9	3353.2	3409.0	3160.2	2969.1	2286.7
62.5°	1008.9	993.3	973.2	964.1	1096.7	1704.1	2365.4	2444.0	2209.9	1925.4	1355.6
65°	790.3	781.1	783.9	820.5	819.6	966.8	1293.4	1261.3	1009.8	746.4	426.2
67.5°	533.3	547.0	558.0	668.6	725.3	673.2	624.7	606.4	328.4	138.1	94.2
70°	300.0	301.8	313.7	418.0	550.6	522.3	430.8	430.8	163.7	50.3	54.0
72.5°	163.7	158.2	147.3	180.2	245.1	248.8	192.1	167.4	48.5	32.9	30.2
75°	79.6	78.7	67.7	55.8	53.1	43.9	33.8	31.1	22.0	21.0	18.3
77.5°	16.5	15.5	8.2	8.2	9.1	10.1	12.8	12.8	15.5	15.5	12.8
80°	0.0	0.0	0.9	3.7	6.4	9.1	11.0	11.0	12.8	12.8	10.1
82.5°	0.0	0.0	0.9	2.7	5.5	8.2	10.1	11.0	12.8	13.7	11.0
85°	0.0	0.0	0.0	1.8	4.6	6.4	5.5	5.5	4.6	3.7	1.8
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9
2.5°	2134.9	2133.0	2091.0	2067.2	2024.2	1986.7	1956.5	1934.6	1934.6	1920.8	1908.0
5°	2074.5	2059.0	1969.3	1911.7	1830.3	1769.9	1728.8	1696.7	1646.4	1660.2	1606.2
7.5°	1999.5	1960.2	1841.3	1753.4	1640.9	1555.0	1467.2	1389.4	1314.4	1280.6	1298.9
10°	1919.0	1850.4	1690.3	1551.3	1411.4	1254.0	1151.6	1027.2	950.4	945.8	925.7
12.5°	1833.9	1756.2	1561.4	1369.3	1185.4	996.1	839.7	723.5	671.4	613.8	624.7
15°	1769.9	1654.7	1417.8	1186.3	942.1	751.0	593.6	504.0	454.6	440.9	436.3
17.5°	1700.4	1576.9	1271.4	991.5	739.1	540.6	427.2	384.2	365.0	365.0	362.2
20°	1628.1	1489.1	1126.0	810.4	554.3	403.4	342.1	328.4	327.5	326.5	326.5
22.5°	1580.6	1388.5	994.3	643.9	418.0	322.9	297.3	291.8	295.4	306.4	306.4
25°	1530.3	1291.5	848.8	496.7	323.8	277.1	262.5	266.2	275.3	285.4	281.7
27.5°	1479.0	1228.4	711.6	389.7	265.3	242.4	236.9	245.1	255.2	264.3	261.6
30°	1467.2	1160.7	581.7	295.4	227.8	211.3	215.0	222.3	232.3	236.0	239.6
32.5°	1485.4	1107.7	476.6	242.4	198.5	193.9	193.9	197.6	204.0	212.2	209.5
35°	1537.6	1077.5	376.8	210.4	182.0	177.4	176.5	180.2	183.9	186.6	183.9
37.5°	1617.2	1053.7	308.2	186.6	171.0	163.7	161.9	161.0	164.6	165.6	167.4
40°	1718.7	1066.5	261.6	172.0	160.1	151.8	146.3	146.3	146.3	149.1	150.0
42.5°	1828.5	1083.9	225.9	163.7	150.0	139.9	134.5	132.6	134.5	138.1	137.2
45°	1943.7	1117.7	203.1	150.9	140.9	128.1	120.7	118.9	123.5	130.8	129.9
47.5°	2051.6	1166.2	185.7	142.7	131.7	119.8	110.7	108.8	117.1	127.1	128.1
50°	2159.6	1250.4	179.3	136.3	125.3	111.6	103.4	101.5	110.7	123.5	126.2
52.5°	2284.0	1340.9	174.7	128.1	118.0	105.2	96.0	94.2	104.3	120.7	121.7
55°	2365.4	1417.8	171.0	113.4	104.3	95.1	87.8	86.9	97.9	112.5	116.2
57.5°	2270.2	1310.7	158.2	98.8	88.7	84.2	77.7	77.7	86.9	100.6	103.4
60°	1721.4	862.5	112.5	79.6	75.0	72.3	69.5	69.5	76.8	86.9	87.8
62.5°	1008.0	464.7	72.3	64.0	64.0	61.3	56.7	56.7	64.0	69.5	70.4
65°	299.1	149.1	58.5	54.9	54.0	49.4	44.8	43.9	49.4	52.1	51.2
67.5°	86.0	68.6	48.5	45.7	44.8	37.5	34.8	33.8	34.8	32.9	32.0
70°	51.2	46.6	37.5	38.4	33.8	27.4	24.7	23.8	22.0	19.2	17.4
72.5°	28.4	28.4	27.4	29.3	23.8	18.3	15.5	12.8	10.1	8.2	7.3
75°	17.4	18.3	19.2	20.1	15.5	11.9	10.1	6.4	3.7	1.8	1.8
77.5°	11.9	12.8	13.7	14.6	12.8	11.0	8.2	4.6	0.9	0.0	0.0
80°	9.1	10.1	11.9	12.8	13.7	14.6	11.0	4.6	0.9	0.0	0.0
82.5°	10.1	11.0	13.7	12.8	12.8	12.8	10.1	4.6	0.9	0.0	0.0
85°	1.8	2.7	4.6	4.6	6.4	8.2	6.4	1.8	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)