

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: P648259

Luminaire Tested: **GALN-SA2B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5229.6 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

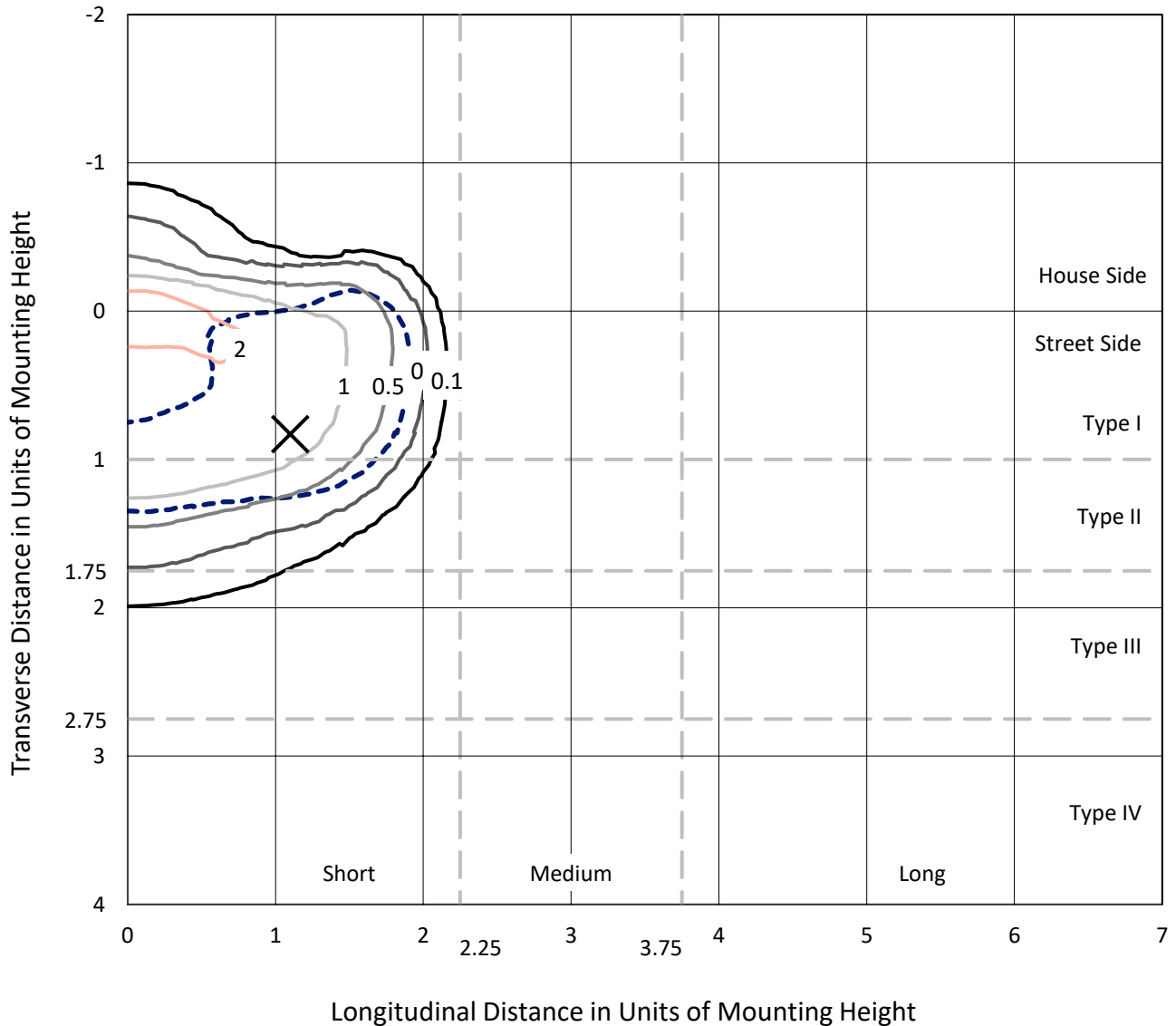
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

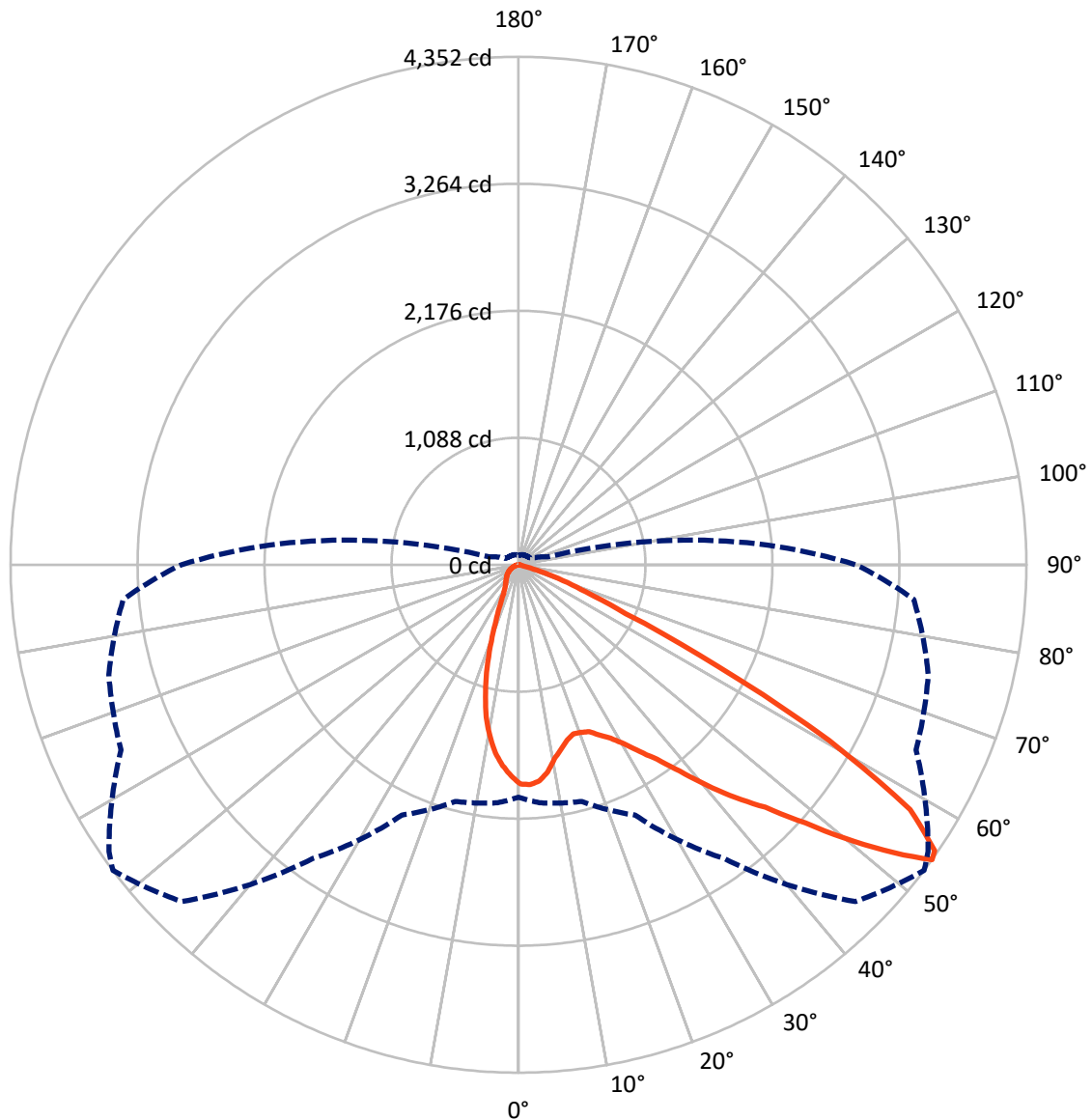
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	865.3	0.0	865.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	4364.4	0.0	4364.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	5229.6	0.0	5229.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	3.1
10°-20°	369.5	7.1
20°-30°	525.1	10.0
30°-40°	810.4	15.5
40°-50°	1270.7	24.3
50°-60°	1476.1	28.2
60°-70°	557.7	10.7
70°-80°	53.0	1.0
80°-90°	6.0	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°	5229.6	100.0
0°-180°	5229.6	100.0

**Coefficient of Utilization**

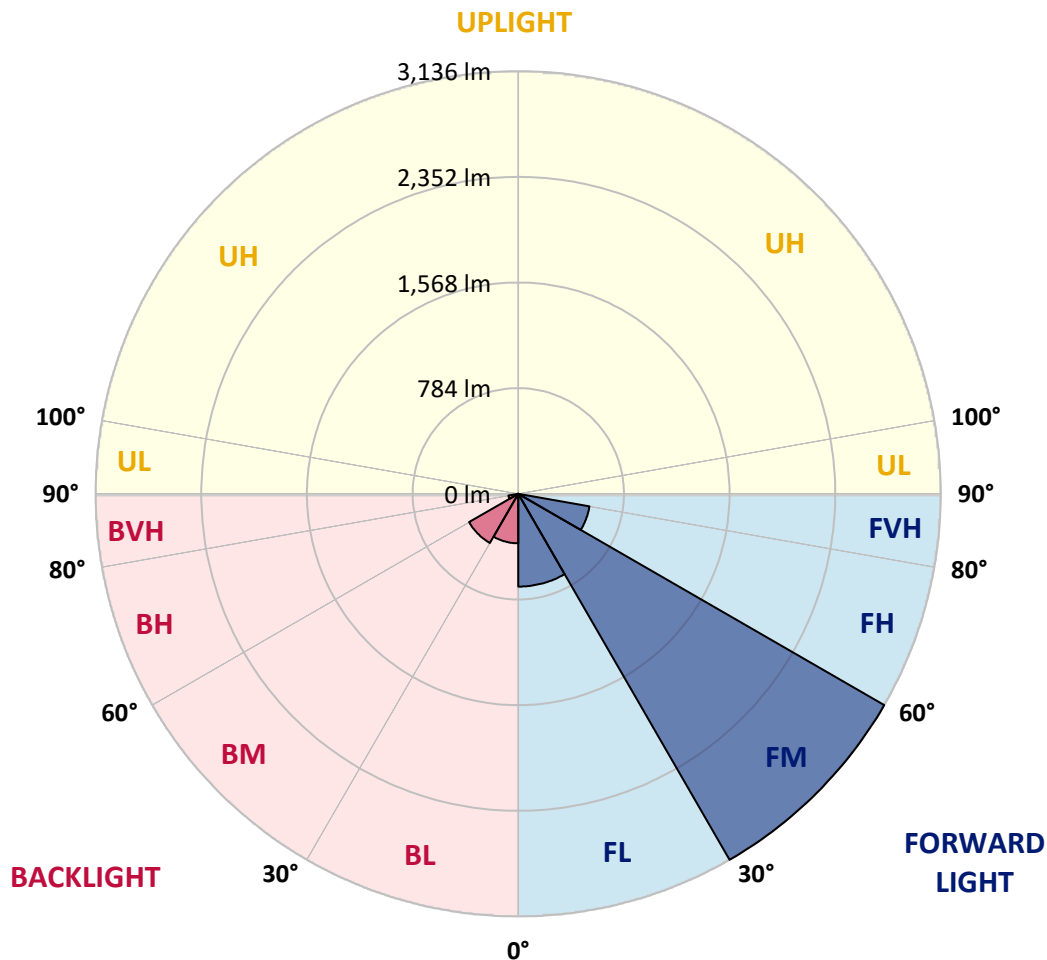


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.6	13.2			
FM (30°-60°)	3136.1	60.0			
FH (60°-80°)	536.6	10.3			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	367.2	7.0	B1/500		
BM (30°-60°)	421.1	8.1	B1/1000		
BH (60°-80°)	74.1	1.4	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			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°	53°	55°	65°	75°	85°
0°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1868.6	1852.1	1868.6	1870.6	1882.3	1893.0	1886.2	1901.8	1893.0	1883.3	1880.4
5°	1717.7	1740.1	1741.0	1776.1	1768.3	1832.6	1860.9	1853.0	1900.8	1897.9	1891.1
7.5°	1582.2	1573.4	1585.2	1626.1	1677.7	1751.7	1792.7	1791.7	1859.9	1908.6	1903.7
10°	1456.5	1455.6	1479.9	1512.1	1555.9	1633.9	1690.3	1718.6	1824.8	1898.9	1909.6
12.5°	1371.8	1367.9	1394.2	1420.5	1489.7	1550.1	1622.1	1635.8	1757.6	1864.8	1882.3
15°	1316.2	1325.0	1327.0	1377.6	1421.5	1501.3	1557.9	1586.1	1726.4	1837.5	1904.7
17.5°	1306.5	1318.2	1319.2	1361.1	1407.8	1475.0	1524.7	1562.7	1700.1	1851.1	1905.7
20°	1326.0	1319.2	1325.0	1351.3	1397.1	1461.4	1533.5	1546.2	1691.4	1858.0	1916.4
22.5°	1381.5	1379.6	1364.9	1386.4	1418.6	1485.7	1553.9	1573.4	1716.6	1893.0	1925.2
25°	1442.9	1453.6	1440.0	1437.0	1459.4	1525.8	1616.3	1641.6	1801.4	1956.3	1952.4
27.5°	1557.9	1547.1	1547.1	1533.5	1527.6	1559.8	1683.5	1725.4	1896.0	2038.1	1983.7
30°	1667.9	1679.6	1670.9	1675.8	1636.8	1633.9	1779.1	1830.7	2063.5	2162.9	2049.9
32.5°	1842.3	1826.7	1841.4	1828.7	1777.1	1724.5	1908.6	1962.2	2266.2	2306.1	2149.3
35°	1987.5	1980.7	2043.1	2041.1	1957.3	1905.7	2046.0	2125.8	2407.4	2477.6	2266.2
37.5°	2194.0	2181.4	2252.5	2286.6	2211.6	2134.6	2242.7	2335.4	2539.0	2615.0	2386.0
40°	2406.5	2438.6	2534.1	2590.6	2510.7	2408.4	2483.4	2511.7	2626.7	2704.6	2467.9
42.5°	2675.4	2722.1	2819.6	2868.3	2861.5	2750.4	2728.0	2727.0	2690.0	2679.3	2528.2
45°	2933.5	2916.0	3066.1	3172.2	3258.0	3225.8	2963.7	2934.5	2790.3	2717.2	2543.8
47.5°	3046.6	3040.7	3143.0	3332.1	3624.3	3664.3	3306.7	3193.7	2959.8	2877.1	2628.6
50°	2900.4	2930.6	3031.9	3241.4	3689.6	3994.6	3727.5	3575.6	3157.6	3071.9	2829.3
52.5°	2423.0	2443.5	2540.0	2805.9	3467.4	4189.4	4131.0	4043.3	3521.1	3378.8	3179.1
54°	1992.4	2046.9	2099.5	2366.5	3071.9	4081.2	4352.1	4284.9	3757.8	3634.1	3399.2
55°	1735.2	1767.3	1805.4	2071.3	2798.1	3898.1	4326.8	4332.6	3916.6	3713.9	3547.3
57.5°	1267.5	1289.9	1251.0	1368.8	1921.2	3165.4	3957.5	4115.4	4131.0	3833.8	3638.0
60°	968.4	978.2	934.4	952.8	1194.5	2172.7	3061.1	3251.2	3726.6	3350.5	3081.7
62.5°	751.1	753.1	752.1	784.3	823.2	1278.2	1914.4	2083.0	2569.2	2379.1	2092.7
65°	553.4	544.7	560.2	657.6	702.4	803.7	1008.3	1131.1	1396.2	1178.9	842.7
67.5°	358.5	361.4	377.0	489.1	602.1	616.7	620.6	610.9	611.8	337.1	211.4
70°	215.3	220.2	215.3	276.7	430.6	442.3	404.3	394.6	307.9	79.9	78.9
72.5°	127.6	120.8	108.1	118.9	179.2	214.3	192.9	191.9	120.8	46.7	46.7
75°	53.6	48.7	39.9	36.0	47.8	45.8	45.8	41.0	32.2	31.2	29.2
77.5°	10.7	10.7	7.8	8.8	11.7	13.6	16.6	16.6	19.5	19.5	18.5
80°	0.0	0.9	2.9	5.9	8.8	12.7	14.6	14.6	16.6	16.6	13.6
82.5°	0.0	0.9	2.9	5.9	7.8	11.7	14.6	14.6	16.6	17.5	14.6
85°	0.0	0.9	2.9	4.9	7.8	9.7	9.7	8.8	6.8	5.9	3.9
87.5°	0.0	0.0	0.9	2.0	0.9	2.0	2.0	2.0	2.0	2.0	2.0
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°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1887.2	1886.2	1862.8	1824.8	1816.0	1783.9	1780.0	1760.5	1771.2	1735.2	1731.3
5°	1871.6	1859.9	1831.7	1807.3	1736.1	1685.5	1645.6	1596.9	1568.6	1573.4	1555.0
7.5°	1894.0	1863.8	1814.1	1729.3	1642.7	1553.9	1506.3	1406.8	1370.8	1317.2	1309.4
10°	1870.6	1848.2	1771.2	1630.9	1511.1	1383.5	1271.4	1161.3	1077.6	1041.5	1033.7
12.5°	1868.6	1829.7	1701.1	1545.2	1371.8	1188.6	1025.9	888.5	805.7	759.0	748.2
15°	1838.5	1791.7	1622.1	1412.7	1173.0	945.1	767.7	635.2	571.9	544.7	552.4
17.5°	1841.4	1771.2	1543.2	1272.4	977.2	693.7	524.1	455.9	439.4	446.2	446.2
20°	1838.5	1725.4	1447.8	1110.7	748.2	481.3	384.8	360.5	371.2	392.6	387.7
22.5°	1822.9	1704.0	1360.1	940.1	550.4	356.6	308.8	309.8	326.4	352.7	358.5
25°	1834.6	1656.3	1249.0	767.7	401.4	284.5	267.9	274.8	292.3	311.8	315.6
27.5°	1825.8	1622.1	1133.1	596.3	293.2	244.5	243.6	251.3	259.2	273.7	273.7
30°	1835.5	1591.0	1019.1	443.3	241.6	224.1	220.2	226.1	233.8	236.8	235.8
32.5°	1871.6	1567.6	887.5	331.3	213.4	204.6	204.6	204.6	203.7	207.5	208.5
35°	1950.5	1571.5	771.6	256.2	194.9	188.0	185.1	181.2	179.2	181.2	182.2
37.5°	2036.3	1569.5	651.8	218.2	181.2	175.4	168.6	162.7	161.8	163.6	160.7
40°	2074.2	1588.1	540.7	195.8	168.6	161.8	151.0	146.1	147.1	149.1	147.1
42.5°	2125.8	1594.0	468.6	178.3	156.8	146.1	139.3	133.5	132.5	135.5	134.4
45°	2124.9	1560.8	392.6	168.6	146.1	134.4	125.7	120.8	120.8	122.8	123.7
47.5°	2187.2	1555.9	337.1	159.8	138.4	126.7	116.0	112.0	111.0	111.0	109.2
50°	2332.4	1624.1	294.3	150.0	128.6	117.9	109.2	104.2	100.4	98.4	97.4
52.5°	2615.9	1836.5	261.1	138.4	117.9	109.2	101.3	97.4	92.6	87.7	86.7
54°	2890.7	2055.7	259.2	128.6	109.2	103.3	96.5	94.5	88.6	81.8	79.9
55°	3014.4	2183.3	266.0	120.8	103.3	99.4	93.6	91.6	85.7	77.9	77.0
57.5°	3116.7	2233.0	262.1	100.4	93.6	92.6	87.7	84.8	77.9	67.3	65.3
60°	2508.7	1688.4	188.0	88.6	85.7	83.8	79.9	77.9	69.1	57.5	56.5
62.5°	1585.2	971.4	119.8	77.9	75.0	72.1	67.3	65.3	57.5	45.8	42.8
65°	675.2	402.4	80.9	69.1	64.3	59.4	55.5	52.6	45.8	34.1	33.1
67.5°	175.4	143.2	67.3	60.4	53.6	46.7	43.8	39.0	31.2	23.4	22.4
70°	78.9	72.1	56.5	50.7	42.8	36.0	32.2	27.2	20.4	15.6	14.6
72.5°	46.7	45.8	42.8	38.0	32.2	27.2	23.4	18.5	13.6	8.8	8.8
75°	29.2	28.3	29.2	26.3	22.4	20.4	17.5	12.7	7.8	3.9	3.9
77.5°	17.5	17.5	17.5	16.6	15.6	15.6	12.7	7.8	3.9	0.9	0.9
80°	13.6	13.6	14.6	13.6	13.6	13.6	10.7	5.9	2.0	0.0	0.0
82.5°	13.6	14.6	16.6	15.6	13.6	11.7	9.7	5.9	2.0	0.0	0.0
85°	3.9	2.9	4.9	6.8	9.7	8.8	6.8	4.9	2.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	0.9	0.9	0.9	0.9	0.9	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)