

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: P451734

Luminaire Tested: **GALN-SA2C-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10374 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

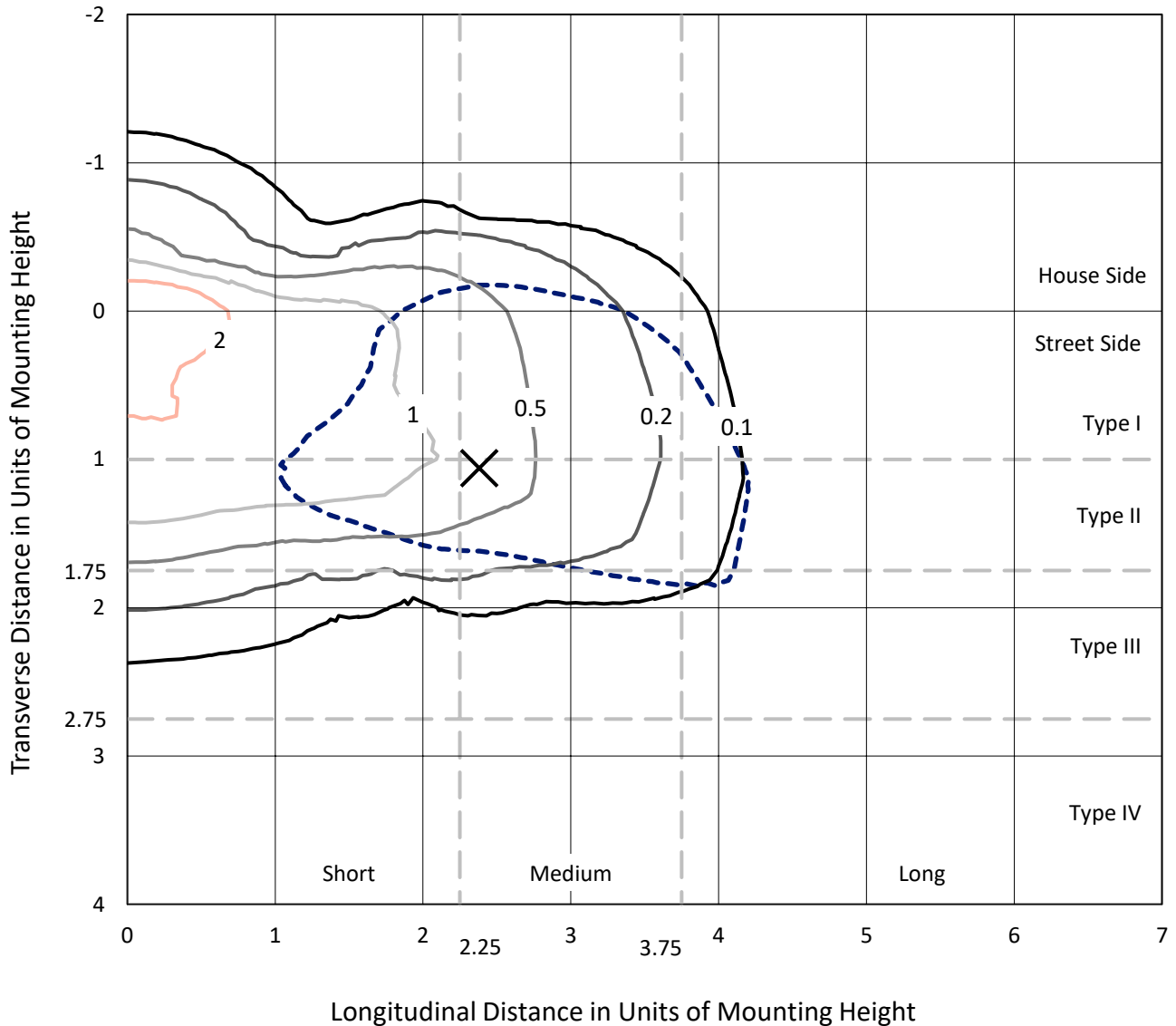
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

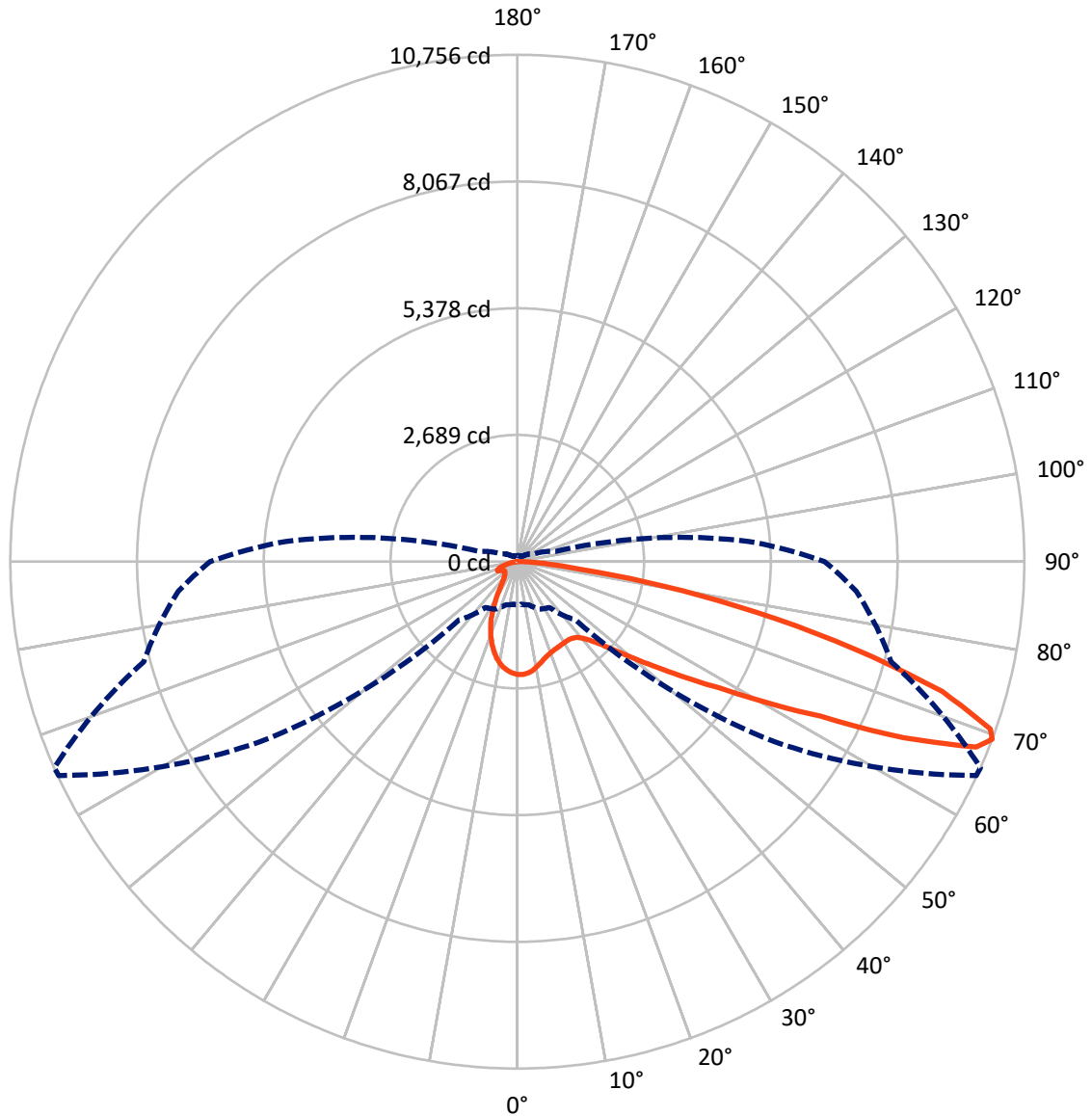
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1951.0	0.0	1951.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8423.0	0.0	8423.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	10374.0	0.0	10374.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	2.0
10°-20°	493.4	4.8
20°-30°	671.8	6.5
30°-40°	902.7	8.7
40°-50°	1347.9	13.0
50°-60°	2144.0	20.7
60°-70°	2637.0	25.4
70°-80°	1715.8	16.5
80°-90°	253.4	2.4
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°	10374.0	100.0
0°-180°	10374.0	100.0



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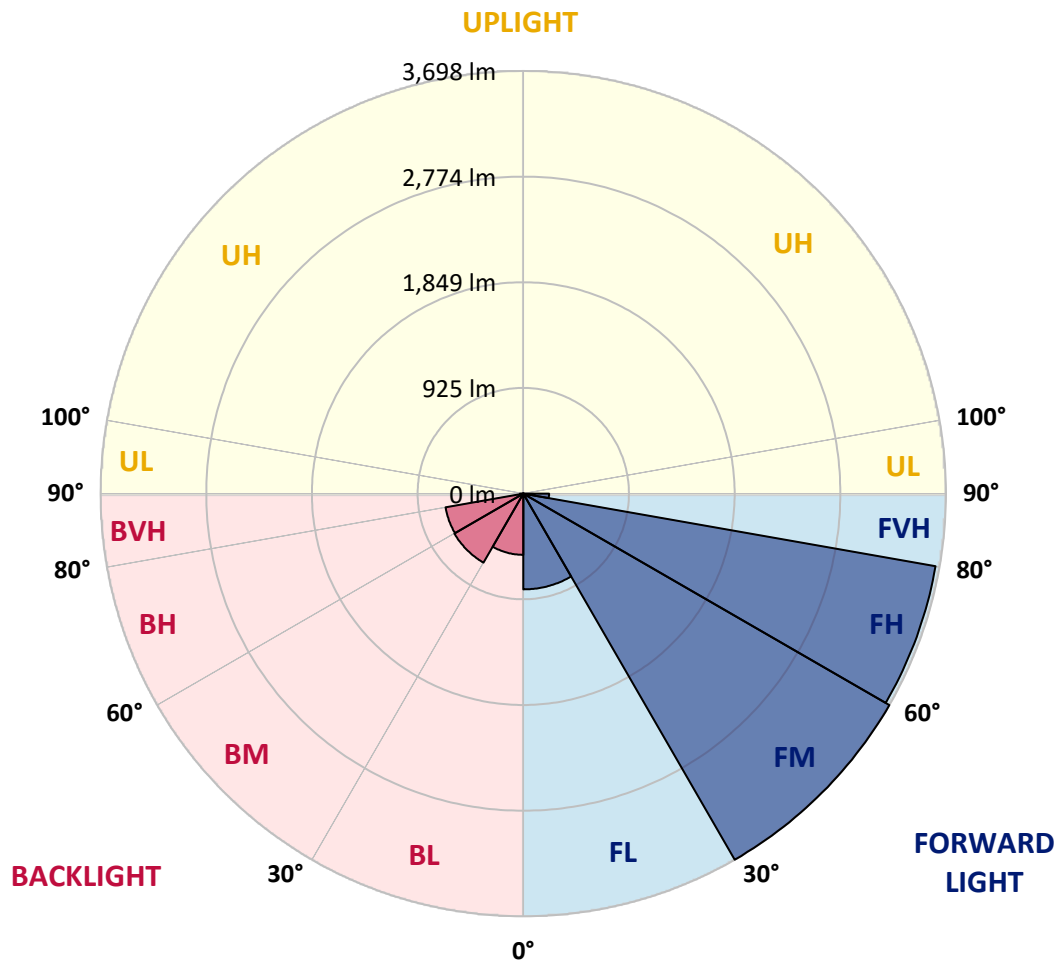
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.7	8.1			
FM (30°-60°)	3698.0	35.6			
FH (60°-80°)	3662.1	35.3			G2/5000
FVH (80°-90°)	225.3	2.2			G3/500
BL (0°-30°)	535.5	5.2	B2/1000		
BM (30°-60°)	696.6	6.7	B1/1000		
BH (60°-80°)	690.7	6.7	B2/1000		G2/1000
BVH (80°-90°)	28.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6
2.5°	2311.8	2321.0	2331.3	2342.8	2364.6	2376.7	2385.3	2395.1	2396.2	2401.4	2397.4
5°	2141.1	2152.1	2167.6	2189.4	2222.1	2273.3	2326.1	2369.2	2374.4	2398.5	2405.4
7.5°	1998.7	2005.0	2017.6	2052.7	2099.2	2156.1	2233.1	2320.4	2333.0	2390.5	2410.6
10°	1882.6	1888.9	1903.9	1940.1	1986.0	2057.3	2141.7	2256.6	2267.0	2365.8	2411.7
12.5°	1795.9	1801.6	1817.7	1853.3	1906.2	1972.8	2065.9	2187.7	2202.6	2333.0	2400.8
15°	1729.8	1740.7	1753.9	1783.2	1839.0	1903.3	1993.5	2124.5	2136.5	2298.6	2393.3
17.5°	1701.7	1706.8	1716.0	1743.0	1783.8	1847.0	1937.8	2075.1	2089.4	2274.4	2391.6
20°	1702.8	1708.0	1709.7	1724.6	1753.9	1808.5	1898.1	2036.0	2053.2	2253.2	2394.5
22.5°	1741.9	1742.4	1736.1	1731.0	1742.4	1787.8	1870.0	2006.7	2026.8	2244.0	2396.8
25°	1802.2	1812.5	1803.3	1779.2	1758.0	1779.8	1859.1	1990.6	2009.6	2230.8	2393.9
27.5°	1899.9	1901.6	1894.1	1861.4	1806.2	1790.1	1854.5	1978.6	1994.6	2221.0	2379.6
30°	2030.8	2025.7	2018.8	1982.6	1895.8	1829.8	1864.2	1967.6	1984.3	2206.6	2362.3
32.5°	2163.5	2179.6	2173.3	2130.8	2018.2	1906.7	1895.8	1966.5	1980.3	2195.7	2343.4
35°	2304.3	2311.8	2341.6	2319.8	2204.3	2031.4	1955.0	1984.3	1995.2	2196.3	2330.2
37.5°	2414.6	2434.7	2504.8	2523.8	2415.2	2196.3	2050.9	2034.9	2039.5	2224.4	2335.3
40°	2547.9	2582.4	2672.6	2750.1	2678.9	2410.6	2214.1	2128.5	2134.2	2292.2	2369.2
42.5°	2716.8	2740.9	2862.1	2967.3	2955.8	2693.8	2411.7	2281.9	2284.8	2427.2	2464.0
45°	2914.4	2948.9	3085.0	3243.0	3270.0	3014.4	2697.3	2514.0	2512.3	2636.9	2641.0
47.5°	3167.2	3188.4	3323.5	3495.8	3605.0	3417.1	3043.7	2847.2	2828.8	2942.6	2909.8
50°	3399.9	3433.2	3535.4	3723.9	3995.6	3888.8	3499.3	3279.2	3236.1	3342.4	3287.3
52.5°	3497.5	3532.6	3618.7	3852.6	4330.5	4498.9	4077.8	3794.5	3722.7	3804.3	3784.2
55°	3328.1	3373.4	3453.9	3738.2	4477.6	5202.6	4857.9	4390.3	4338.0	4303.0	4308.7
57.5°	2872.5	2915.6	3024.1	3337.8	4301.8	5713.4	5971.9	5156.1	5044.1	4882.6	4910.2
60°	2186.5	2213.5	2269.8	2617.4	3780.8	5846.1	7236.9	6124.1	6052.9	5460.0	5479.5
62.5°	1552.9	1583.3	1622.4	1795.9	2767.9	5472.1	8227.3	7475.9	7221.4	6058.1	6039.1
65°	1261.0	1240.3	1287.4	1368.4	1624.1	4240.9	8450.2	9352.2	9001.8	6845.7	6582.6
67.5°	1037.0	1015.1	1061.7	1205.9	1235.2	2461.7	7647.1	10570.1	10500.0	7702.3	7134.7
69°	918.0	906.6	947.3	1111.6	1185.8	1748.2	6661.8	10739.6	10756.3	8207.2	7219.7
70°	827.3	831.9	871.5	1064.0	1163.4	1441.4	5693.8	10505.8	10647.1	8459.4	7127.8
72.5°	609.0	618.7	673.9	881.3	1142.1	1223.1	3388.4	9176.4	9426.3	8474.4	6520.5
75°	425.7	421.1	469.9	663.5	1078.9	1212.2	1990.1	7096.7	7380.0	7324.8	5479.0
77.5°	278.6	286.1	325.2	468.8	907.7	1203.0	1297.2	5034.9	5218.7	4898.7	3240.7
80°	196.5	195.9	217.7	320.0	673.3	1155.9	1062.2	3173.5	3127.0	1925.1	961.1
82.5°	112.6	120.6	145.9	225.2	450.4	1017.4	977.2	1517.8	1385.7	548.6	324.6
85°	62.6	65.5	86.7	136.2	263.1	766.4	853.1	690.5	651.5	229.2	139.6
87.5°	20.1	21.8	36.2	68.9	119.5	361.9	483.2	318.8	294.1	82.7	56.3
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°	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6	2395.6
2.5°	2399.1	2406.0	2387.6	2369.8	2353.7	2331.3	2311.2	2294.5	2283.0	2281.3	2275.6
5°	2407.1	2407.7	2372.7	2325.6	2279.6	2229.0	2176.8	2139.4	2104.4	2084.8	2075.1
7.5°	2412.9	2407.7	2344.5	2268.1	2179.6	2087.7	1995.8	1922.3	1865.4	1843.0	1851.6
10°	2410.6	2394.5	2302.0	2179.6	2050.9	1913.6	1781.5	1678.1	1583.3	1534.5	1535.6
12.5°	2397.9	2371.5	2238.8	2080.2	1891.2	1707.4	1505.2	1365.6	1255.8	1190.9	1170.8
15°	2387.0	2341.1	2164.7	1945.2	1710.3	1447.7	1201.3	1028.9	937.0	885.9	885.3
17.5°	2375.5	2311.8	2083.7	1802.2	1502.3	1164.5	906.0	774.4	731.3	736.5	727.9
20°	2363.5	2277.3	1999.2	1643.1	1249.0	868.6	678.5	625.1	637.1	660.7	664.1
22.5°	2349.7	2240.5	1908.5	1467.8	982.4	653.8	550.4	542.3	573.3	610.1	615.3
25°	2328.4	2194.6	1794.1	1284.6	757.8	526.8	482.0	487.7	518.2	549.2	552.7
27.5°	2298.6	2137.7	1678.7	1055.9	569.3	452.1	440.6	448.1	463.0	482.0	486.6
30°	2258.3	2073.4	1546.0	858.3	456.1	414.8	410.2	414.2	422.8	430.9	433.2
32.5°	2218.1	2011.3	1412.1	657.2	406.7	390.1	385.5	385.5	385.5	386.6	387.2
35°	2180.8	1952.7	1268.5	511.9	380.9	370.5	364.2	357.3	356.2	352.2	352.2
37.5°	2160.1	1899.3	1115.7	428.6	361.9	354.5	345.8	334.4	328.0	328.6	327.5
40°	2164.1	1864.2	976.6	381.5	346.4	338.4	325.2	312.0	307.9	307.9	306.8
42.5°	2209.5	1852.7	843.4	356.8	331.5	322.3	305.6	293.6	291.3	290.7	291.8
45°	2314.1	1880.9	723.9	340.7	318.8	305.1	288.4	277.5	275.2	275.2	274.6
47.5°	2518.0	1972.2	638.3	330.3	309.7	291.8	274.6	263.7	259.7	258.5	258.5
50°	2835.1	2170.4	574.5	321.1	298.2	279.8	262.0	249.3	243.0	242.4	241.9
52.5°	3275.8	2479.5	549.8	314.2	285.5	267.1	247.6	235.5	227.5	225.8	224.6
55°	3791.1	2911.0	583.7	309.1	272.3	252.8	232.7	220.0	212.6	209.1	208.5
57.5°	4388.0	3429.2	712.4	302.2	260.2	237.3	217.7	205.1	197.1	193.0	191.9
60°	4924.0	3961.7	937.0	298.2	249.9	220.6	200.5	189.0	181.5	177.5	176.9
62.5°	5512.9	4469.6	1205.3	309.1	245.3	204.5	184.4	174.1	167.8	163.7	163.7
65°	6141.9	4978.0	1382.8	345.8	252.2	191.9	167.2	158.6	152.8	149.9	149.4
67.5°	6565.9	5153.8	1139.2	383.8	269.4	178.1	150.5	143.6	140.2	137.3	137.3
69°	6519.9	4931.5	840.5	393.5	274.6	171.2	141.3	136.2	131.6	130.4	129.3
70°	6374.6	4678.1	704.3	387.2	270.6	164.9	135.6	129.3	125.2	124.1	123.5
72.5°	5677.7	4057.1	524.5	336.7	230.4	143.0	120.1	114.3	110.9	109.2	109.2
75°	4717.2	3316.0	409.6	267.7	180.4	120.6	102.8	98.2	95.4	94.2	93.6
77.5°	2643.8	1851.6	294.1	209.7	136.7	97.7	86.2	82.2	79.3	78.1	78.1
80°	736.5	529.1	172.9	138.5	93.1	74.1	68.4	65.5	61.5	58.6	60.3
82.5°	277.5	229.2	98.8	83.3	59.2	49.4	47.7	45.4	43.7	39.6	39.6
85°	135.0	111.5	63.2	44.2	32.7	25.9	24.7	23.6	22.4	19.5	20.1
87.5°	46.5	49.4	27.6	16.1	9.8	6.3	5.2	2.9	2.9	2.9	2.9
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)