

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: P529098

Luminaire Tested: **GALN-SA4B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15791 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

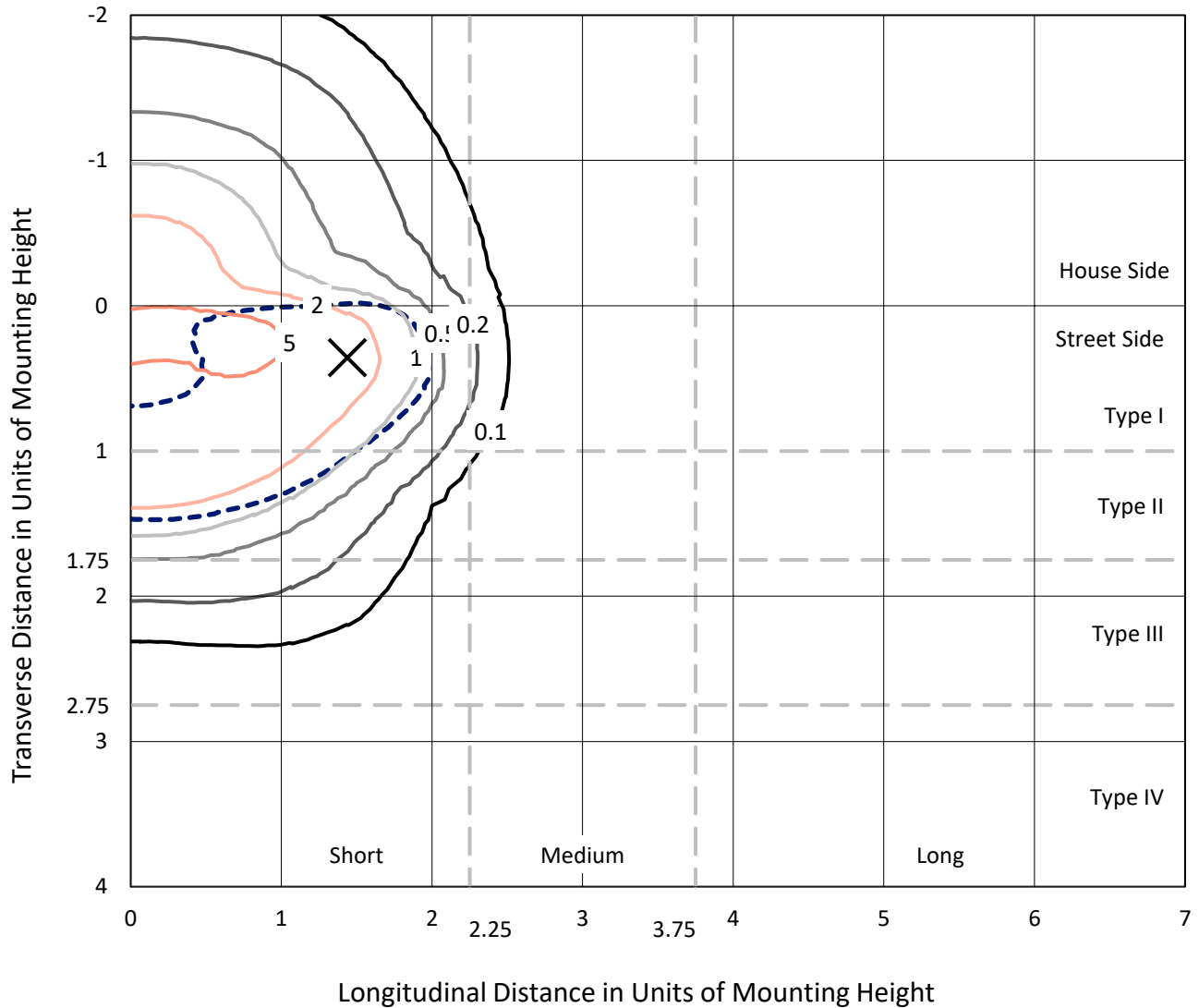
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

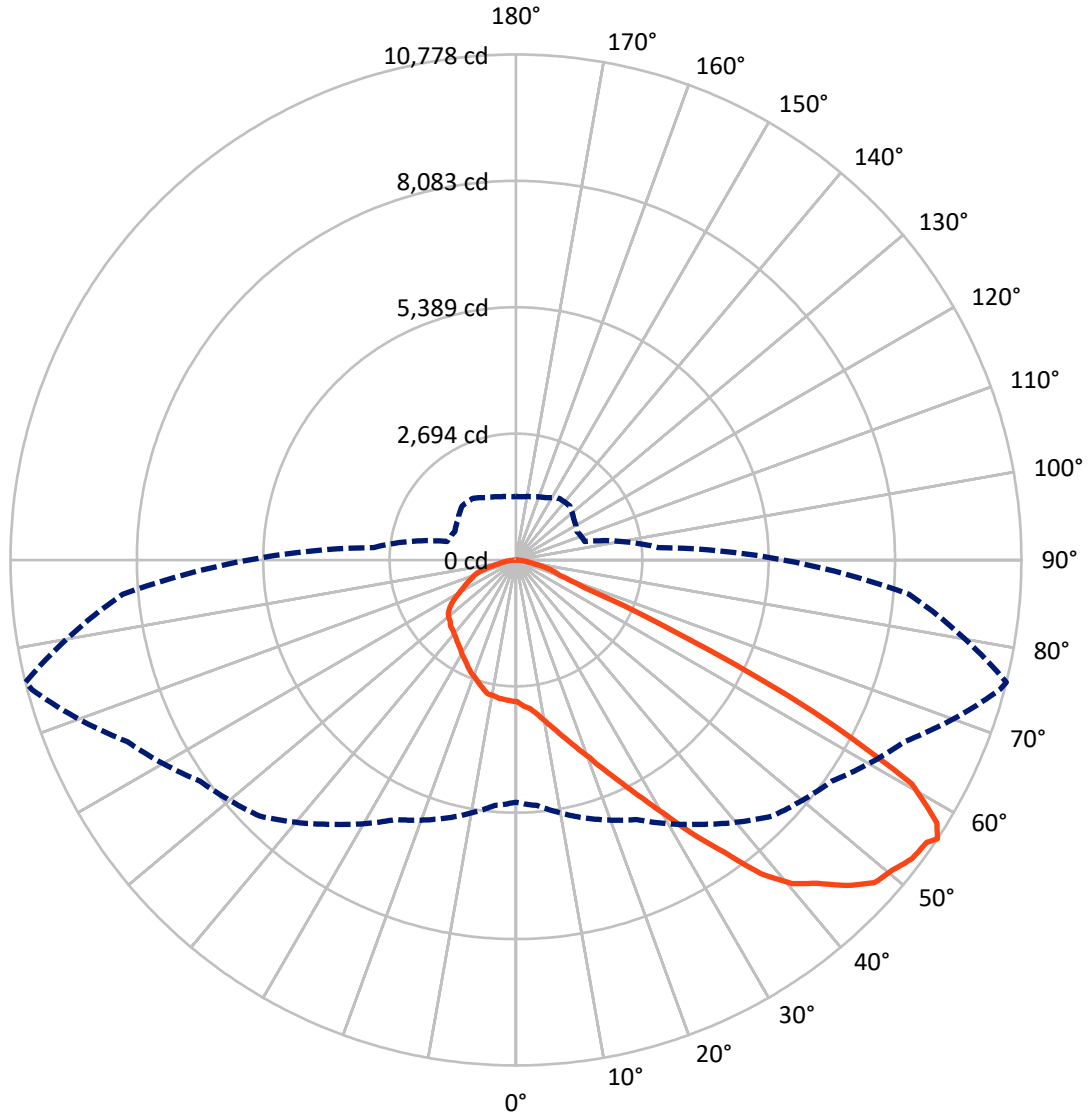
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4245.7	0.0	4245.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	11545.3	0.0	11545.3
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	15791.0	0.0	15791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.6	1.9
10°-20°	941.2	6.0
20°-30°	1646.1	10.4
30°-40°	2577.3	16.3
40°-50°	3749.3	23.7
50°-60°	4120.7	26.1
60°-70°	1839.3	11.6
70°-80°	531.3	3.4
80°-90°	86.2	0.5
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°	15791.0	100.0
0°-180°	15791.0	100.0

**Coefficient of Utilization**

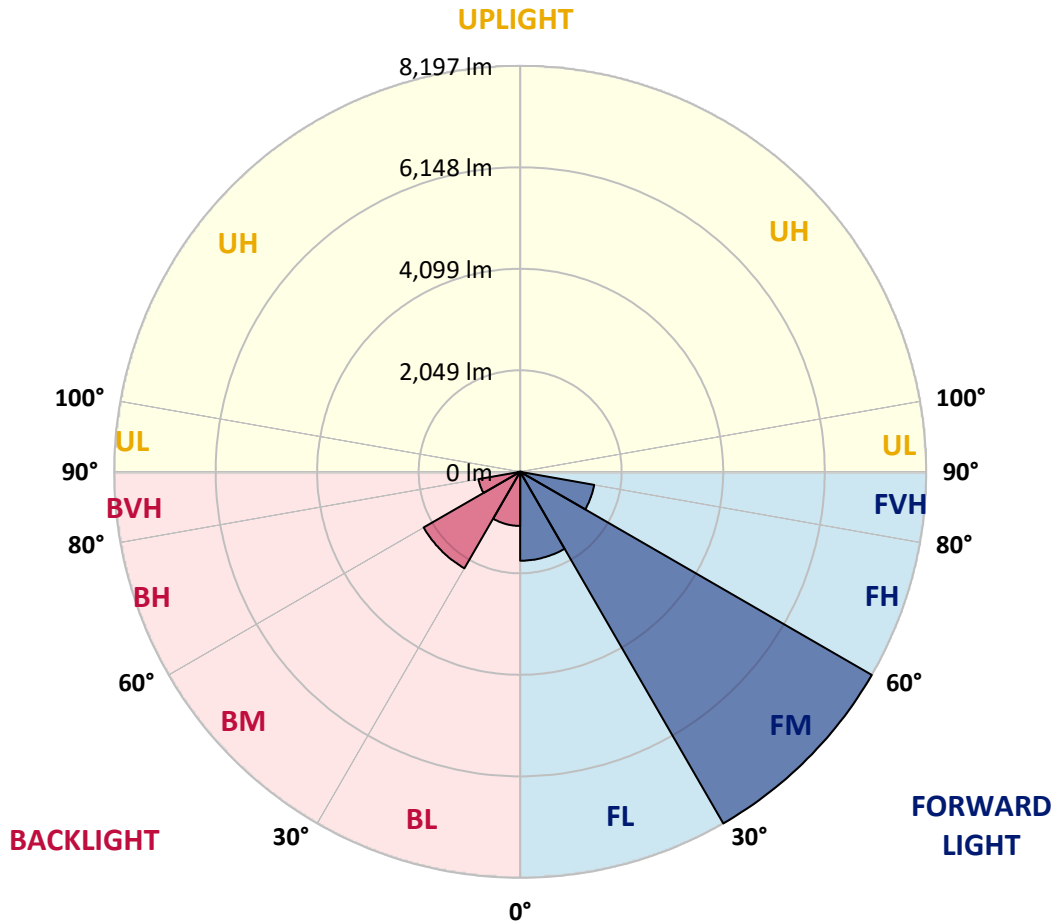


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.5	11.4			
FM (30°-60°)	8197.4	51.9			
FH (60°-80°)	1516.3	9.6			G1/1800
FVH (80°-90°)	37.1	0.2			G1/100
BL (0°-30°)	1092.5	6.9	B3/2500		
BM (30°-60°)	2249.9	14.2	B2/2500		
BH (60°-80°)	854.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4
2.5°	3328.5	3275.2	3271.1	3256.8	3265.0	3228.2	3189.3	3138.1	3084.9	3117.6	3039.8
5°	3561.8	3490.2	3518.8	3469.7	3475.8	3426.7	3346.9	3287.5	3222.0	3183.1	3127.9
7.5°	3643.7	3649.8	3670.3	3662.1	3621.2	3621.2	3568.0	3463.6	3348.9	3326.4	3234.3
10°	3754.2	3756.3	3733.8	3739.9	3797.2	3770.6	3723.5	3678.5	3531.1	3504.5	3340.7
12.5°	3793.1	3756.3	3793.1	3825.9	3893.4	3930.3	3920.0	3887.3	3729.7	3711.3	3471.8
15°	3799.3	3776.8	3807.5	3881.2	3940.5	4096.1	4173.9	4151.4	3942.6	3944.6	3619.1
17.5°	3770.6	3801.3	3813.6	3877.1	4014.2	4159.5	4384.7	4415.4	4243.5	4216.9	3805.4
20°	3809.5	3787.0	3803.4	3860.7	4042.9	4270.1	4564.9	4767.5	4526.0	4507.5	3997.8
22.5°	3958.9	3928.2	3924.1	3961.0	4092.0	4327.4	4755.2	5119.6	4869.9	4880.1	4237.3
25°	4075.6	4092.0	4077.7	4075.6	4157.5	4413.4	5007.0	5539.2	5336.6	5277.2	4519.8
27.5°	4276.2	4315.1	4286.5	4325.4	4306.9	4542.3	5187.2	6003.9	5840.2	5760.3	4775.7
30°	4554.6	4575.1	4548.5	4548.5	4493.2	4722.5	5350.9	6489.1	6421.5	6313.0	5076.6
32.5°	4921.0	4951.7	4898.5	4867.8	4859.6	4990.6	5645.7	6968.1	7082.7	6990.6	5475.8
35°	5406.2	5387.8	5324.3	5295.6	5185.1	5402.1	6083.8	7518.7	7819.6	7655.9	5958.9
37.5°	5834.0	5805.4	5801.3	5641.6	5668.2	5846.3	6456.3	7936.3	8534.0	8487.0	6468.6
40°	6233.2	6259.8	6302.8	6212.7	6171.8	6368.3	6890.3	8255.6	9088.8	9070.4	6861.6
42.5°	6661.0	6636.4	6712.2	6636.4	6575.0	6853.4	7361.1	8476.7	9576.0	9424.5	7273.1
45°	7281.3	7203.5	7230.1	7236.2	7191.2	7293.5	7555.6	8636.4	9917.8	9901.4	7574.0
47.5°	7799.2	7801.2	7756.2	7721.4	7584.2	7686.6	7772.5	8736.7	10310.9	10284.2	7690.7
50°	7991.6	7965.0	8096.0	8171.7	8179.9	7971.1	7942.4	8792.0	10517.6	10400.9	7807.3
52.5°	7299.7	7324.2	7531.0	7981.3	8241.3	8263.8	8141.0	8906.6	10601.5	10577.0	7901.5
55°	5875.0	5993.7	6333.5	6853.4	7469.6	8147.1	8355.9	9025.3	10646.6	10626.1	8319.1
56°	5164.6	5256.8	5698.9	6106.3	6880.0	7723.4	8220.8	9152.2	10681.4	10777.6	8417.4
57.5°	4157.5	4263.9	4581.2	5043.9	5956.8	6916.9	7848.3	8996.7	10546.3	10583.1	8489.0
60°	2599.7	2610.0	2990.7	3295.7	3938.5	4876.0	5989.6	7827.8	9760.2	9707.0	7625.2
62.5°	1705.2	1707.2	2053.2	2302.9	2595.6	2810.6	3525.0	5191.2	7201.4	7107.3	5428.7
65°	1197.5	1224.1	1492.3	1825.9	1944.7	1832.1	1809.6	2736.9	4022.4	3887.3	2917.0
67.5°	876.1	878.2	1115.6	1473.9	1645.8	1394.0	1132.0	1336.7	1592.6	1588.5	1351.0
70°	579.3	603.9	786.1	1101.3	1297.8	1119.7	925.3	956.0	1013.3	1013.3	1005.1
72.5°	337.8	360.3	481.1	698.0	728.7	700.1	732.8	818.8	855.7	853.6	843.4
75°	192.4	202.7	229.3	290.7	362.3	427.8	538.4	620.2	657.1	679.6	653.0
77.5°	112.6	118.7	135.1	165.8	188.3	231.3	292.7	350.0	399.2	393.0	397.1
80°	59.4	59.4	75.7	98.3	131.0	163.8	194.5	227.2	253.8	260.0	266.1
82.5°	34.8	36.8	49.1	71.6	94.2	116.7	149.4	171.9	196.5	198.6	202.7
85°	18.4	20.5	30.7	47.1	63.5	71.6	73.7	69.6	75.7	71.6	81.9
87.5°	6.1	6.1	10.2	8.2	8.2	10.2	12.3	12.3	16.4	16.4	16.4
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°	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4	3021.4
2.5°	3037.8	3037.8	3003.0	2937.5	2927.2	2900.6	2876.1	2874.0	2855.6	2839.2	2831.0
5°	3095.1	3031.6	2980.5	2921.1	2851.5	2818.7	2781.9	2741.0	2724.6	2741.0	2738.9
7.5°	3160.6	3107.4	2953.9	2843.3	2763.5	2730.7	2689.8	2646.8	2650.9	2650.9	2622.2
10°	3224.1	3152.4	2906.8	2765.5	2648.8	2624.3	2601.8	2618.1	2638.6	2642.7	2624.3
12.5°	3330.5	3168.8	2884.3	2687.7	2614.0	2560.8	2575.2	2620.2	2663.2	2650.9	2665.2
15°	3410.3	3183.1	2781.9	2607.9	2515.8	2540.4	2591.5	2622.2	2693.9	2685.7	2700.0
17.5°	3488.1	3191.3	2681.6	2501.5	2462.6	2530.1	2569.0	2657.0	2679.6	2728.7	2747.1
20°	3647.8	3207.7	2579.2	2436.0	2423.7	2501.5	2569.0	2610.0	2659.1	2702.1	2702.1
22.5°	3729.7	3199.5	2511.7	2350.0	2388.9	2438.0	2499.4	2569.0	2569.0	2610.0	2612.0
25°	3832.0	3166.7	2405.3	2309.0	2337.7	2384.8	2454.4	2429.8	2456.4	2456.4	2489.2
27.5°	3948.7	3097.1	2313.1	2235.3	2292.7	2343.8	2354.1	2337.7	2307.0	2302.9	2290.6
30°	4042.9	3011.2	2245.6	2210.8	2257.9	2286.5	2253.8	2219.0	2165.7	2161.7	2133.0
32.5°	4171.8	2904.7	2161.7	2149.4	2202.6	2204.6	2194.4	2141.2	2063.4	2030.6	1997.9
35°	4388.8	2843.3	2098.2	2116.6	2133.0	2126.9	2108.4	2051.1	1973.3	1959.0	1946.7
37.5°	4548.5	2798.3	2032.7	2055.2	2069.5	2077.7	2022.5	1959.0	1961.0	1932.4	1924.2
40°	4728.6	2769.6	1979.5	1989.7	1991.8	2018.4	1950.8	1920.1	1934.4	1916.0	1928.3
42.5°	4959.9	2777.8	1924.2	1916.0	1954.9	1944.7	1911.9	1871.0	1879.2	1823.9	1832.1
45°	5082.8	2833.1	1891.4	1854.6	1897.6	1895.5	1852.6	1813.7	1764.5	1658.1	1662.2
47.5°	5164.6	2847.4	1813.7	1789.1	1834.1	1860.7	1811.6	1721.5	1651.9	1576.2	1557.8
50°	5248.6	2874.0	1776.8	1725.6	1744.1	1807.5	1746.1	1660.1	1592.6	1525.0	1535.3
52.5°	5322.3	2925.2	1705.2	1629.4	1662.2	1731.8	1699.0	1594.6	1520.9	1465.7	1449.3
55°	5649.8	3039.8	1584.4	1486.1	1563.9	1651.9	1633.5	1506.6	1426.8	1398.1	1394.0
56°	5701.0	3043.9	1520.9	1437.0	1508.7	1625.3	1602.8	1467.7	1396.1	1351.0	1353.1
57.5°	5709.1	2994.8	1430.9	1392.0	1453.4	1586.4	1557.8	1437.0	1338.8	1297.8	1285.5
60°	5023.4	2337.7	1318.3	1293.7	1365.4	1467.7	1457.5	1353.1	1242.5	1195.5	1218.0
62.5°	3424.7	1713.4	1230.3	1226.2	1263.0	1363.3	1336.7	1242.5	1150.4	1119.7	1105.4
65°	1993.8	1299.9	1144.3	1127.9	1158.6	1211.8	1230.3	1132.0	1035.8	1015.3	1009.2
67.5°	1177.0	1074.7	1033.7	1007.1	996.9	1029.7	1044.0	986.7	890.5	861.8	886.4
70°	984.6	956.0	958.0	913.0	888.4	865.9	853.6	802.4	722.6	685.8	675.5
72.5°	849.5	837.2	829.0	788.1	765.6	714.4	661.2	610.0	550.6	519.9	522.0
75°	648.9	644.8	648.9	628.4	589.5	548.6	499.5	434.0	388.9	350.0	358.2
77.5°	386.9	399.2	405.3	397.1	380.7	343.9	313.2	270.2	227.2	196.5	192.4
80°	266.1	276.3	286.6	276.3	260.0	233.4	200.6	167.9	137.2	120.8	116.7
82.5°	202.7	212.9	219.0	208.8	188.3	159.7	137.2	114.6	90.1	73.7	69.6
85°	73.7	83.9	81.9	98.3	106.4	102.4	88.0	67.6	51.2	36.8	34.8
87.5°	20.5	18.4	20.5	20.5	20.5	18.4	16.4	16.4	16.4	10.2	8.2
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)