

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: P647949

Luminaire Tested: **GALN-SA5A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647949  
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-SA5A-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA 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: 15041.4 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

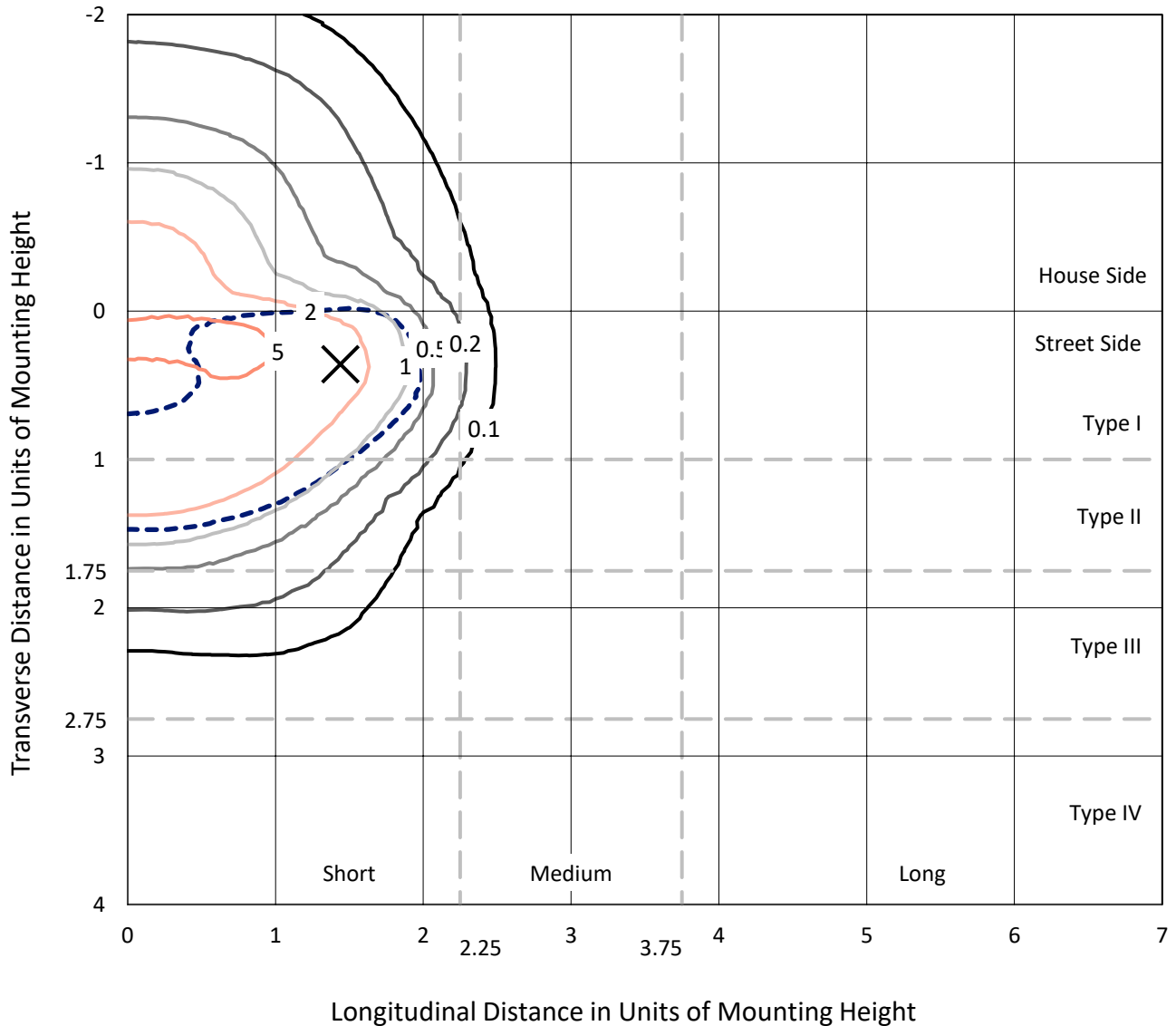
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

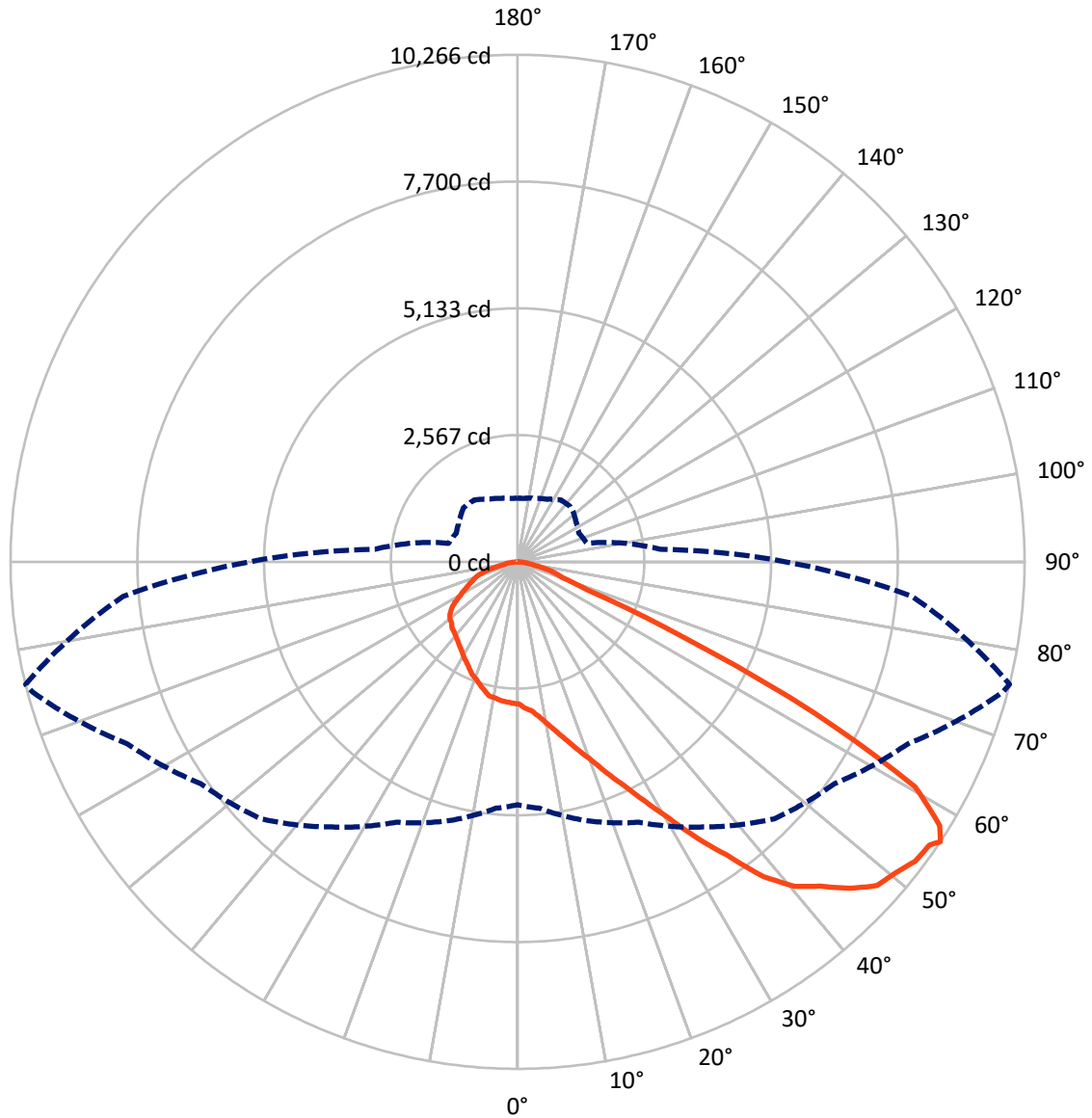
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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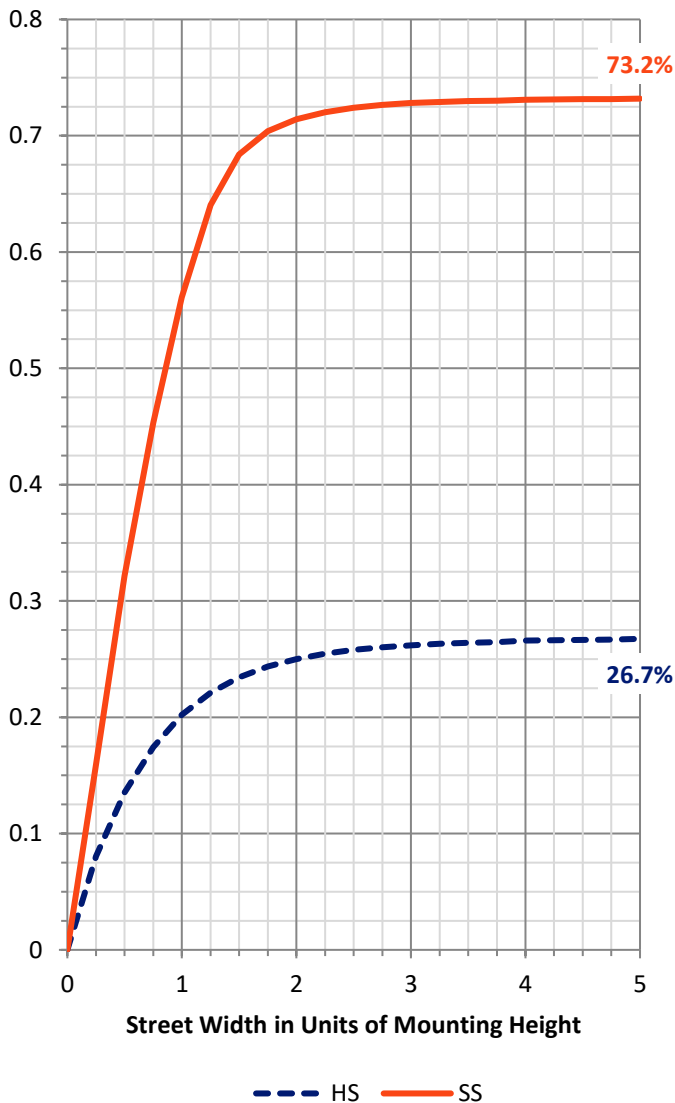
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4044.2	0.0	4044.2
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10997.2	0.0	10997.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	15041.4	0.0	15041.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	1.9
10°-20°	896.6	6.0
20°-30°	1568.0	10.4
30°-40°	2455.0	16.3
40°-50°	3571.3	23.7
50°-60°	3925.1	26.1
60°-70°	1752.0	11.6
70°-80°	506.0	3.4
80°-90°	82.1	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°	15041.4	100.0
0°-180°	15041.4	100.0

**Coefficient of Utilization**



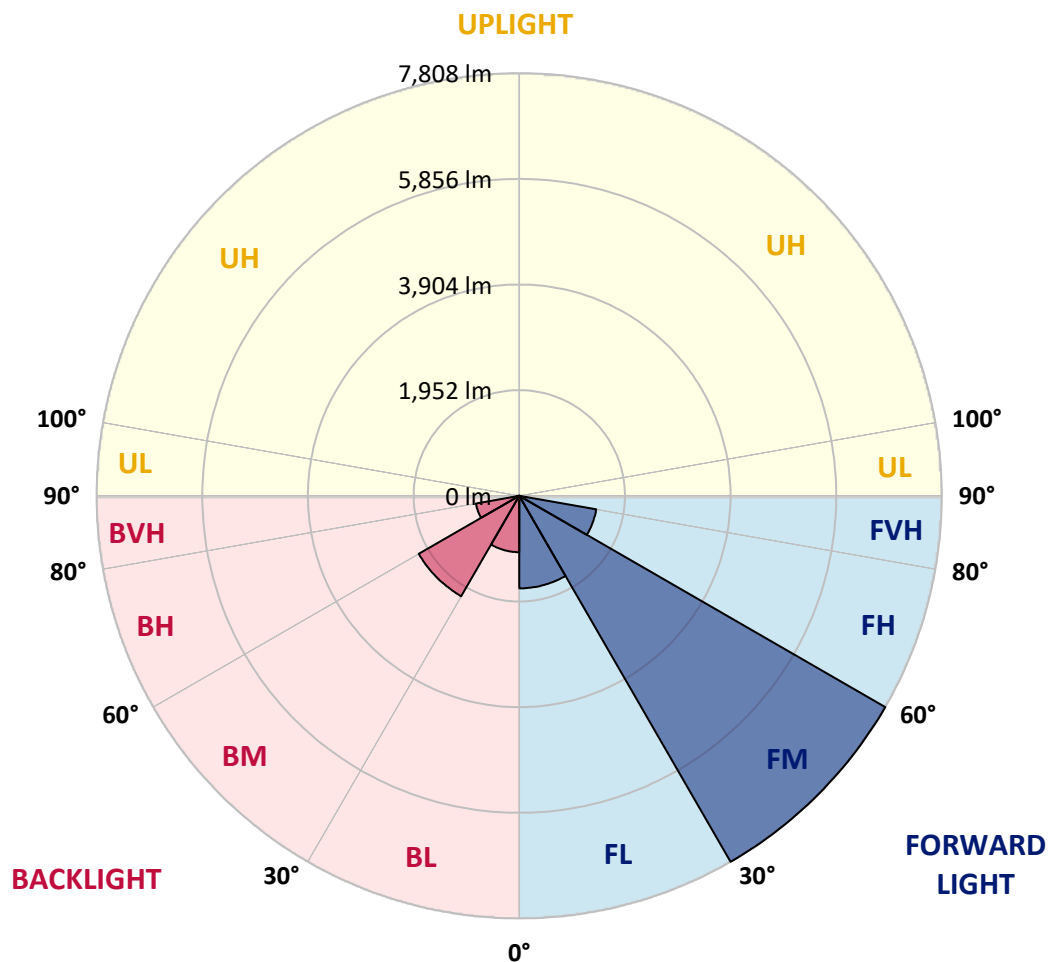
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.3	11.4			
FM (30°-60°)	7808.3	51.9			
FH (60°-80°)	1444.3	9.6			G1/1800
FVH (80°-90°)	35.3	0.2			G1/100
BL (0°-30°)	1040.6	6.9	B3/2500		
BM (30°-60°)	2143.1	14.2	B2/2500		
BH (60°-80°)	813.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	46.8	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°	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0
2.5°	3170.4	3119.8	3115.9	3102.2	3110.0	3074.9	3037.9	2989.1	2938.4	2969.6	2895.5
5°	3392.7	3324.5	3351.8	3305.0	3310.8	3264.1	3188.0	3131.5	3069.0	3032.0	2979.4
7.5°	3470.7	3476.6	3496.1	3488.3	3449.3	3449.3	3398.6	3299.2	3189.9	3168.5	3080.8
10°	3576.0	3578.0	3556.5	3562.4	3617.0	3591.6	3546.8	3503.9	3363.5	3338.2	3182.2
12.5°	3613.1	3578.0	3613.1	3644.2	3708.6	3743.8	3734.0	3702.8	3552.6	3535.1	3306.9
15°	3618.9	3597.5	3626.7	3696.9	3753.5	3901.7	3975.8	3954.3	3755.4	3757.4	3447.3
17.5°	3591.6	3620.9	3632.6	3693.0	3823.7	3962.1	4176.6	4205.8	4042.1	4016.7	3624.7
20°	3628.7	3607.2	3622.9	3677.4	3851.0	4067.4	4348.2	4541.2	4311.1	4293.6	3808.0
22.5°	3771.0	3741.8	3737.9	3773.0	3897.8	4122.0	4529.5	4876.6	4638.7	4648.4	4036.2
25°	3882.2	3897.8	3884.1	3882.2	3960.2	4203.8	4769.3	5276.3	5083.2	5026.7	4305.2
27.5°	4073.2	4110.3	4083.0	4120.1	4102.5	4326.7	4941.0	5719.0	5562.9	5486.9	4549.0
30°	4338.4	4357.9	4332.6	4332.6	4280.0	4498.3	5096.9	6181.0	6116.7	6013.4	4835.7
32.5°	4687.4	4716.7	4666.0	4636.8	4628.9	4753.7	5377.7	6637.3	6746.5	6658.8	5215.9
35°	5149.6	5132.0	5071.6	5044.2	4939.0	5145.6	5795.0	7161.8	7448.4	7292.5	5676.0
37.5°	5557.1	5529.8	5525.9	5373.8	5399.2	5568.8	6149.8	7559.6	8128.9	8084.1	6161.5
40°	5937.3	5962.6	6003.6	5917.8	5878.8	6066.0	6563.2	7863.7	8657.3	8639.8	6535.9
42.5°	6344.8	6321.4	6393.6	6321.4	6262.9	6528.1	7011.7	8074.4	9121.4	8977.1	6927.8
45°	6935.7	6861.5	6886.9	6892.7	6849.8	6947.3	7196.9	8226.4	9447.1	9431.5	7214.5
47.5°	7428.9	7430.9	7388.0	7354.9	7224.2	7321.7	7403.6	8322.0	9821.4	9796.0	7325.6
50°	7612.2	7586.9	7711.7	7783.8	7791.6	7592.8	7565.4	8374.7	10018.3	9907.2	7436.8
52.5°	6953.2	6976.6	7173.5	7602.5	7850.1	7871.6	7754.6	8483.8	10098.3	10074.9	7526.4
55°	5596.1	5709.2	6032.9	6528.1	7115.0	7760.4	7959.3	8596.9	10141.2	10121.7	7924.2
56°	4919.5	5007.2	5428.4	5816.4	6553.5	7356.8	7830.6	8717.8	10174.3	10266.0	8017.8
57.5°	3960.2	4061.6	4363.7	4804.4	5674.1	6588.6	7475.8	8569.6	10045.7	10080.7	8086.0
60°	2476.3	2486.0	2848.7	3139.3	3751.5	4644.5	5705.3	7456.3	9296.9	9246.2	7263.2
62.5°	1624.3	1626.2	1955.7	2193.6	2472.4	2677.2	3357.7	4944.8	6859.5	6769.9	5171.0
65°	1140.7	1166.0	1421.5	1739.3	1852.3	1745.2	1723.7	2606.9	3831.5	3702.8	2778.6
67.5°	834.5	836.5	1062.7	1403.9	1567.6	1327.9	1078.3	1273.2	1517.0	1513.1	1286.9
70°	551.8	575.2	748.8	1049.0	1236.2	1066.6	881.3	910.6	965.2	965.2	957.4
72.5°	321.7	343.2	458.2	664.9	694.1	666.9	698.0	779.9	815.0	813.1	803.4
75°	183.3	193.0	218.4	276.9	345.1	407.6	512.8	590.8	625.9	647.4	622.0
77.5°	107.3	113.1	128.7	157.9	179.4	220.3	278.8	333.4	380.2	374.4	378.3
80°	56.5	56.5	72.1	93.6	124.8	156.0	185.3	216.4	241.8	247.7	253.5
82.5°	33.1	35.1	46.8	68.3	89.7	111.1	142.3	163.8	187.2	189.2	193.0
85°	17.5	19.5	29.3	44.9	60.4	68.3	70.2	66.3	72.1	68.3	78.0
87.5°	5.9	5.9	9.8	7.8	7.8	9.8	11.7	11.7	15.6	15.6	15.6
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°	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0	2878.0
2.5°	2893.6	2893.6	2860.5	2798.1	2788.3	2763.0	2739.6	2737.6	2720.1	2704.5	2696.7
5°	2948.2	2887.7	2839.0	2782.5	2716.1	2685.0	2649.8	2610.8	2595.3	2610.8	2608.9
7.5°	3010.6	2959.9	2813.6	2708.3	2632.3	2601.1	2562.1	2521.2	2525.1	2525.1	2497.8
10°	3071.0	3002.8	2768.8	2634.2	2523.1	2499.7	2478.3	2493.9	2513.4	2517.3	2499.7
12.5°	3172.4	3018.4	2747.3	2560.2	2489.9	2439.3	2452.9	2495.8	2536.8	2525.1	2538.7
15°	3248.4	3032.0	2649.8	2484.1	2396.4	2419.8	2468.5	2497.8	2566.0	2558.2	2571.8
17.5°	3322.6	3039.8	2554.3	2382.7	2345.7	2410.0	2447.0	2530.9	2552.3	2599.2	2616.7
20°	3474.6	3055.4	2456.8	2320.3	2308.6	2382.7	2447.0	2486.0	2532.8	2573.8	2573.8
22.5°	3552.6	3047.6	2392.5	2238.4	2275.5	2322.3	2380.8	2447.0	2447.0	2486.0	2488.0
25°	3650.1	3016.4	2291.1	2199.4	2226.7	2271.6	2337.9	2314.5	2339.8	2339.8	2371.0
27.5°	3761.3	2950.1	2203.4	2129.2	2183.9	2232.6	2242.4	2226.7	2197.5	2193.6	2181.9
30°	3851.0	2868.2	2139.0	2105.9	2150.7	2178.0	2146.8	2113.6	2063.0	2059.1	2031.7
32.5°	3973.8	2766.8	2059.1	2047.3	2098.0	2100.0	2090.2	2039.6	1965.5	1934.2	1903.1
35°	4180.5	2708.3	1998.6	2016.1	2031.7	2025.9	2008.3	1953.7	1879.7	1866.0	1854.3
37.5°	4332.6	2665.5	1936.2	1957.7	1971.3	1979.1	1926.5	1866.0	1867.9	1840.7	1832.8
40°	4504.1	2638.2	1885.5	1895.3	1897.2	1922.6	1858.2	1828.9	1842.6	1825.1	1836.8
42.5°	4724.5	2645.9	1832.8	1825.1	1862.1	1852.3	1821.2	1782.2	1789.9	1737.3	1745.2
45°	4841.5	2698.6	1801.7	1766.6	1807.5	1805.6	1764.6	1727.5	1680.8	1579.4	1583.3
47.5°	4919.5	2712.2	1727.5	1704.2	1747.1	1772.4	1725.7	1639.8	1573.5	1501.4	1483.9
50°	4999.5	2737.6	1692.5	1643.8	1661.3	1721.7	1663.2	1581.3	1517.0	1452.6	1462.4
52.5°	5069.6	2786.3	1624.3	1552.1	1583.3	1649.5	1618.4	1518.9	1448.7	1396.1	1380.5
55°	5381.6	2895.5	1509.2	1415.6	1489.7	1573.5	1556.0	1435.1	1359.1	1331.7	1327.9
56°	5430.3	2899.4	1448.7	1368.8	1437.0	1548.1	1526.8	1398.0	1329.8	1286.9	1288.8
57.5°	5438.2	2852.6	1363.0	1325.9	1384.4	1511.1	1483.9	1368.8	1275.2	1236.2	1224.5
60°	4784.9	2226.7	1255.7	1232.3	1300.6	1398.0	1388.3	1288.8	1183.6	1138.7	1160.2
62.5°	3262.1	1632.0	1171.8	1168.0	1203.1	1298.6	1273.2	1183.6	1095.8	1066.6	1052.9
65°	1899.2	1238.2	1089.9	1074.4	1103.6	1154.3	1171.8	1078.3	986.7	967.2	961.3
67.5°	1121.2	1023.7	984.7	959.3	949.5	980.8	994.4	939.8	848.2	820.9	844.3
70°	937.9	910.6	912.5	869.6	846.3	824.8	813.1	764.4	688.3	653.2	643.5
72.5°	809.2	797.5	789.7	750.7	729.2	680.5	629.8	581.1	524.5	495.2	497.2
75°	618.1	614.2	618.1	598.6	561.6	522.6	475.8	413.3	370.4	333.4	341.2
77.5°	368.6	380.2	386.1	378.3	362.7	327.6	298.3	257.4	216.4	187.2	183.3
80°	253.5	263.2	273.0	263.2	247.7	222.3	191.1	159.9	130.6	115.0	111.1
82.5°	193.0	202.8	208.7	198.9	179.4	152.1	130.6	109.2	85.8	70.2	66.3
85°	70.2	79.9	78.0	93.6	101.4	97.5	83.9	64.4	48.8	35.1	33.1
87.5°	19.5	17.5	19.5	19.5	19.5	17.5	15.6	15.6	15.6	9.8	7.8
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)