

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: P527542

Luminaire Tested: **GALN-SA2C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12054 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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

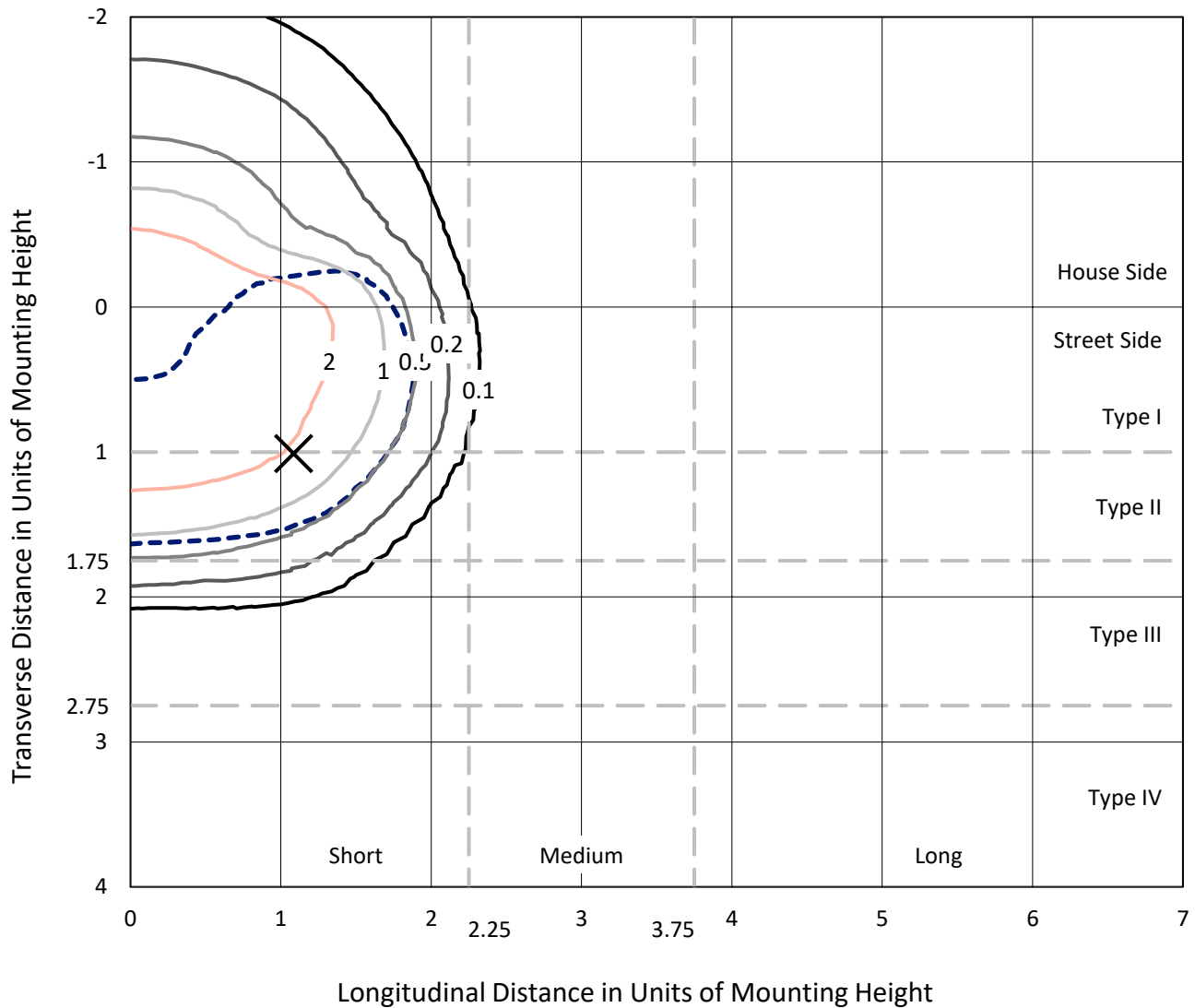


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Iso-Footcandle Lines of Horizontal Illumination

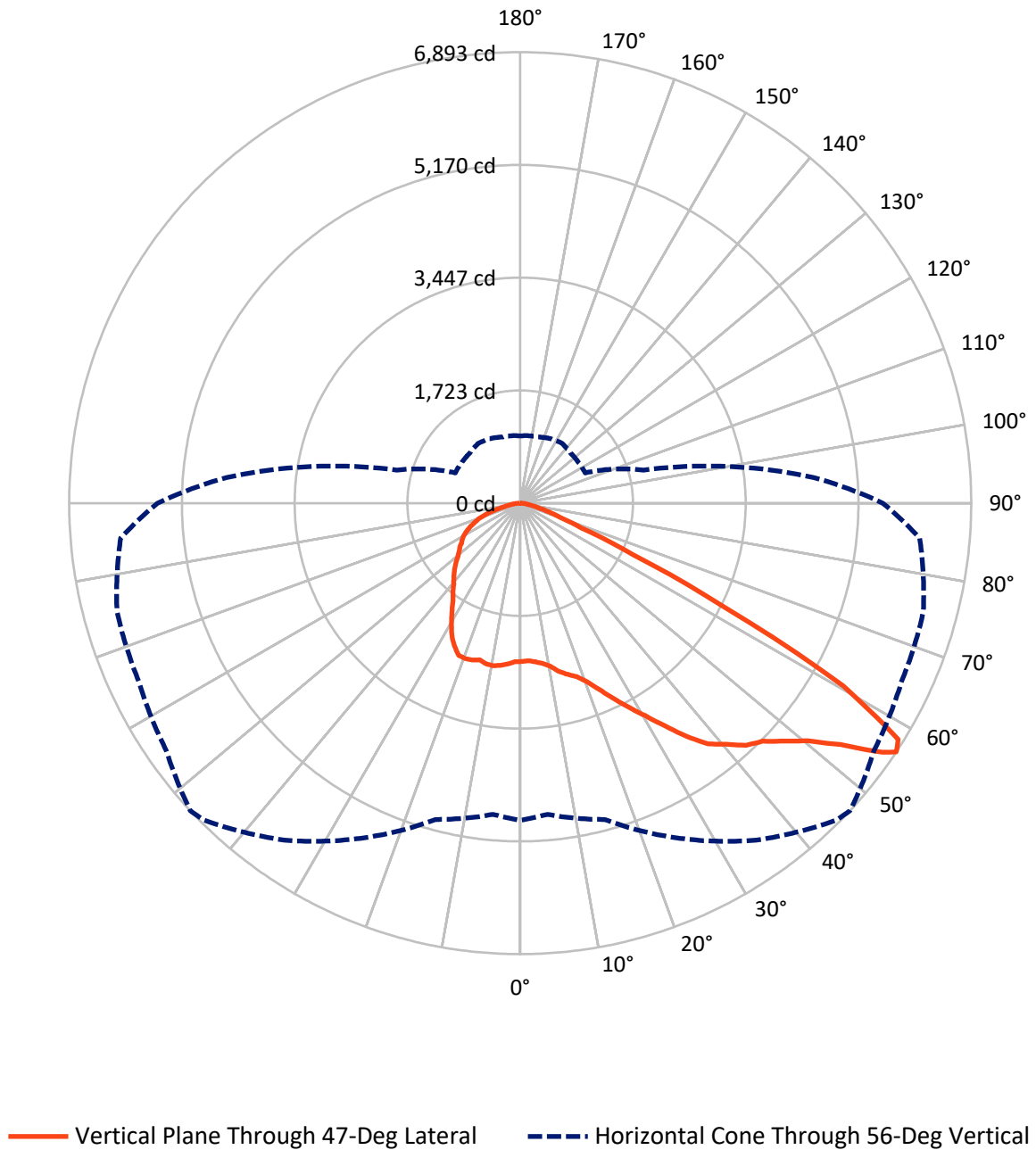
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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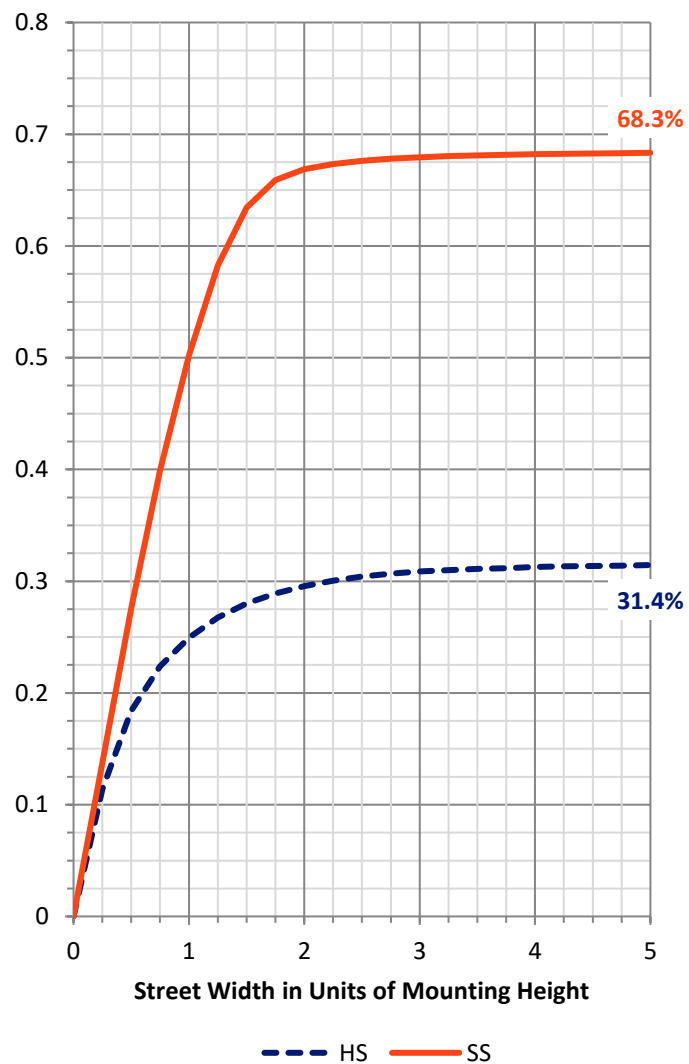
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3819.8	0.0	3819.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8234.2	0.0	8234.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	12054.0	0.0	12054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	2.0
10°-20°	744.2	6.2
20°-30°	1315.6	10.9
30°-40°	1976.0	16.4
40°-50°	2711.8	22.5
50°-60°	3230.8	26.8
60°-70°	1382.6	11.5
70°-80°	391.3	3.2
80°-90°	65.8	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°	12054.0	100.0
0°-180°	12054.0	100.0

Coefficient of Utilization



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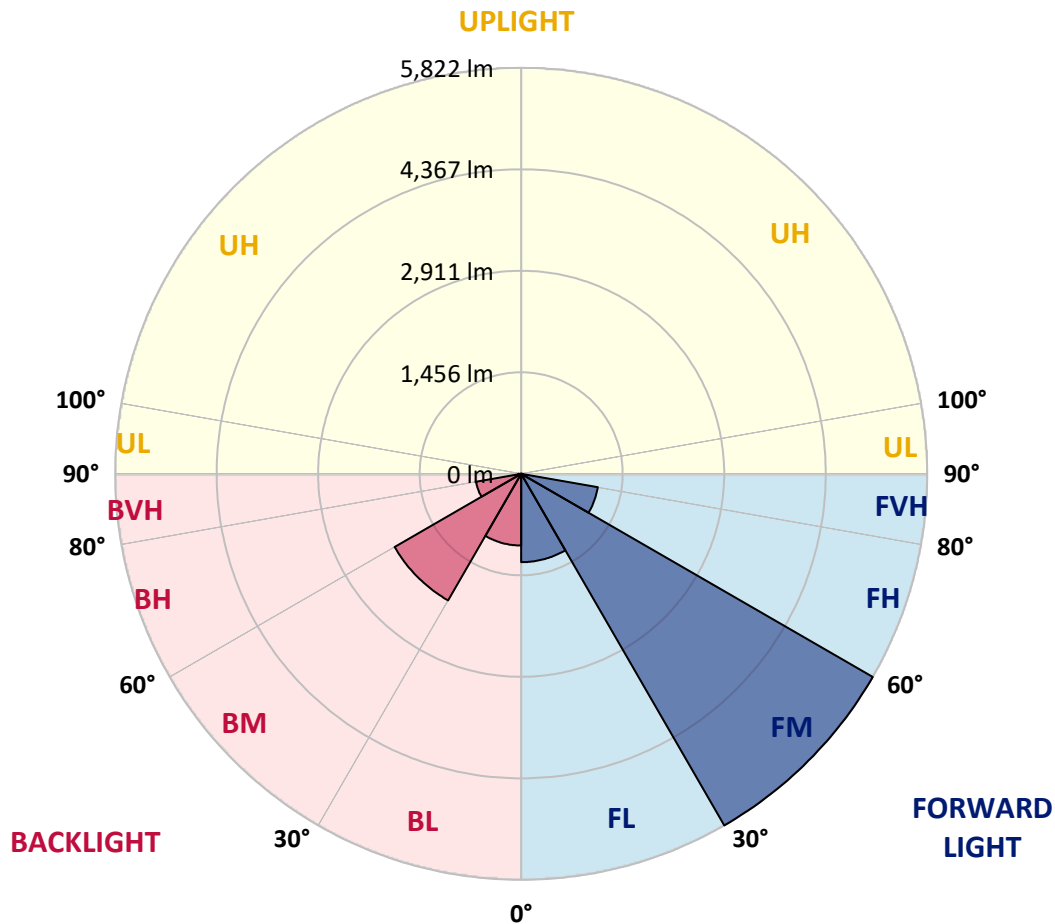
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1267.3	10.5			
FM	(30°-60°)	5822.4	48.3			
FH	(60°-80°)	1116.6	9.3			G1/1800
FVH	(80°-90°)	27.9	0.2			G1/100
BL	(0°-30°)	1028.4	8.5	B3/2500		
BM	(30°-60°)	2096.2	17.4	B2/2500		
BH	(60°-80°)	657.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	37.9	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°	47°	55°	65°	75°	85°
0°	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3
2.5°	2412.1	2407.4	2404.4	2429.0	2419.7	2421.3	2412.1	2421.3	2427.4	2413.6	2433.6
5°	2407.4	2421.3	2409.0	2416.7	2436.7	2430.5	2436.7	2455.1	2450.5	2445.9	2439.7
7.5°	2450.5	2452.0	2461.3	2464.3	2470.5	2464.3	2473.6	2490.5	2485.8	2459.7	2462.8
10°	2512.0	2515.1	2516.6	2533.5	2544.3	2545.8	2535.0	2519.7	2518.1	2553.5	2528.9
12.5°	2582.7	2575.0	2593.5	2599.6	2611.9	2625.7	2639.6	2607.3	2627.3	2628.8	2599.6
15°	2685.7	2693.4	2671.9	2671.9	2676.5	2678.0	2716.4	2701.1	2698.0	2681.1	2693.4
17.5°	2839.4	2787.2	2785.6	2764.1	2761.0	2773.3	2787.2	2799.5	2841.0	2807.2	2741.0
20°	2951.7	2964.0	2919.4	2893.2	2897.9	2925.5	2911.7	2967.0	2996.2	2940.9	2876.3
22.5°	3150.0	3108.5	3119.2	3060.8	3065.4	3094.6	3093.1	3150.0	3166.9	3079.3	2985.5
25°	3283.7	3273.0	3282.2	3236.1	3242.2	3265.3	3302.2	3395.9	3368.3	3271.4	3054.7
27.5°	3479.0	3457.4	3449.8	3432.8	3426.7	3488.2	3531.2	3631.2	3611.2	3469.7	3177.6
30°	3678.8	3665.0	3672.7	3603.5	3628.1	3758.8	3771.1	3907.9	3898.6	3649.6	3314.5
32.5°	3817.2	3824.9	3838.7	3800.3	3909.4	4013.9	4055.5	4210.7	4218.4	3958.6	3578.9
35°	4040.1	4013.9	4021.6	4066.2	4116.9	4307.6	4375.2	4478.2	4542.8	4283.0	3832.5
37.5°	4180.0	4207.7	4175.4	4246.1	4378.3	4607.4	4668.8	4774.9	4842.6	4602.7	4178.4
40°	4398.3	4353.7	4376.8	4427.5	4562.8	4861.0	4844.1	4953.3	4974.8	4874.8	4501.3
42.5°	4633.5	4612.0	4579.7	4695.0	4808.7	5025.5	5059.3	5008.6	5117.7	5140.8	4962.5
45°	4914.8	4941.0	4945.6	4948.6	5048.6	5237.7	5191.5	5147.0	5273.0	5440.6	5248.4
47.5°	5176.2	5093.1	5153.1	5236.1	5377.6	5379.1	5432.9	5326.8	5460.6	5609.7	5506.7
50°	5263.8	5223.8	5303.8	5460.6	5678.9	5701.9	5708.1	5557.4	5626.6	5745.0	5595.9
52.5°	5230.0	5216.1	5420.6	5663.5	5983.3	6100.1	6130.8	5944.8	5983.3	5929.5	5792.6
55°	5068.6	5110.1	5316.1	5811.1	6301.5	6662.8	6721.2	6486.0	6241.5	6283.0	6132.4
56°	4847.2	4774.9	5005.5	5643.5	6287.6	6845.7	6893.4	6599.7	6433.7	6379.9	6129.3
57.5°	4112.3	4018.6	4321.4	5077.8	5938.7	6776.5	6811.9	6647.4	6401.4	6292.3	5681.9
60°	2407.4	2453.6	2837.9	3502.0	4581.2	5555.9	5674.3	5794.2	5629.7	5140.8	4229.2
62.5°	1162.2	1133.0	1408.2	2007.7	2791.8	3546.6	3511.2	3847.9	4032.4	3652.7	2670.3
65°	608.8	605.7	768.7	1096.1	1534.2	1863.2	1895.5	2076.9	2330.6	1881.7	1355.9
67.5°	447.4	459.7	541.1	770.2	987.0	1006.9	1002.3	1093.0	1117.6	945.5	833.2
70°	350.5	356.7	416.6	585.7	734.8	658.0	644.1	654.9	727.2	757.9	721.0
72.5°	253.7	259.8	310.5	395.1	459.7	448.9	458.1	518.1	607.2	639.5	601.1
75°	169.1	173.7	201.4	241.4	272.1	293.6	310.5	379.7	462.7	481.2	462.7
77.5°	116.8	121.4	139.9	170.6	173.7	187.6	193.7	226.0	276.7	299.8	287.5
80°	66.1	66.1	75.3	87.6	107.6	126.1	129.1	155.3	178.3	193.7	196.8
82.5°	30.7	32.3	40.0	53.8	70.7	87.6	90.7	107.6	124.5	139.9	144.5
85°	15.4	16.9	23.1	32.3	43.0	52.3	50.7	52.3	55.3	52.3	53.8
87.5°	4.6	4.6	6.1	7.7	6.1	7.7	7.7	9.2	10.8	12.3	13.8
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°	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3	2421.3
2.5°	2435.1	2439.7	2409.0	2438.2	2427.4	2425.9	2447.4	2444.3	2452.0	2449.0	2430.5
5°	2436.7	2425.9	2458.2	2429.0	2442.8	2472.0	2452.0	2498.1	2475.1	2490.5	2456.6
7.5°	2484.3	2487.4	2481.2	2493.5	2487.4	2501.2	2490.5	2501.2	2482.8	2484.3	2515.1
10°	2525.8	2516.6	2527.4	2512.0	2522.7	2518.1	2493.5	2485.8	2492.0	2484.3	2504.3
12.5°	2602.7	2585.8	2578.1	2559.6	2547.3	2501.2	2462.8	2441.3	2470.5	2475.1	2465.9
15°	2681.1	2682.6	2647.3	2605.8	2528.9	2459.7	2468.9	2476.6	2476.6	2488.9	2465.9
17.5°	2730.3	2730.3	2698.0	2615.0	2536.6	2496.6	2487.4	2462.8	2441.3	2438.2	2436.7
20°	2816.4	2790.2	2716.4	2613.4	2533.5	2515.1	2445.9	2387.5	2342.9	2327.5	2326.0
22.5°	2914.8	2848.7	2745.7	2616.5	2528.9	2502.8	2373.6	2286.0	2206.1	2172.2	2176.8
25°	3005.5	2899.4	2762.6	2602.7	2512.0	2385.9	2241.4	2120.0	2037.0	2009.3	1995.4
27.5°	3068.5	2953.2	2762.6	2615.0	2449.0	2255.3	2107.7	1952.4	1880.1	1861.7	1864.8
30°	3153.0	3020.8	2810.2	2588.9	2322.9	2086.1	1909.4	1807.9	1764.8	1749.5	1760.2
32.5°	3351.4	3197.6	2876.3	2525.8	2173.8	1917.0	1774.1	1717.2	1654.2	1623.4	1612.7
35°	3566.6	3365.2	2940.9	2419.7	2006.2	1763.3	1674.1	1621.9	1546.5	1512.7	1518.9
37.5°	3871.0	3580.4	2945.5	2244.5	1824.8	1677.2	1595.7	1514.3	1452.8	1400.5	1385.1
40°	4281.4	3874.1	2934.7	2060.0	1678.8	1575.8	1515.8	1414.3	1345.2	1308.3	1315.9
42.5°	4642.7	4218.4	2890.2	1850.9	1546.5	1506.6	1438.9	1339.0	1271.4	1232.9	1229.9
45°	4947.1	4472.1	2805.6	1672.6	1435.9	1429.7	1351.3	1274.4	1220.6	1185.3	1200.6
47.5°	5228.4	4676.5	2678.0	1494.3	1334.4	1346.7	1271.4	1223.7	1189.9	1157.6	1156.1
50°	5329.9	4673.5	2565.8	1346.7	1252.9	1246.8	1243.7	1193.0	1157.6	1129.9	1142.2
52.5°	5499.0	4725.7	2444.3	1245.2	1179.1	1180.7	1191.4	1154.5	1114.6	1097.6	1113.0
55°	5741.9	4733.4	2176.8	1126.9	1117.6	1128.4	1128.4	1103.8	1070.0	1056.1	1048.5
56°	5543.6	4504.4	1952.4	1096.1	1086.9	1086.9	1116.1	1088.4	1046.9	1036.2	1026.9
57.5°	5113.1	3946.3	1634.2	1059.2	1045.4	1066.9	1082.3	1053.1	1014.6	999.3	1008.5
60°	3526.6	2670.3	1228.3	979.3	979.3	1014.6	1026.9	983.9	967.0	965.4	953.1
62.5°	2058.5	1555.8	960.8	907.0	910.1	939.3	948.5	923.9	902.4	928.5	940.8
65°	1091.5	928.5	824.0	830.2	831.7	854.8	894.7	893.2	891.6	899.3	900.9
67.5°	790.2	771.7	748.7	742.5	745.6	762.5	802.5	833.2	831.7	813.2	799.4
70°	704.1	678.0	664.1	665.7	653.4	673.3	705.6	725.6	690.3	668.7	659.5
72.5°	585.7	578.0	568.8	570.3	545.7	541.1	504.2	504.2	495.0	488.9	499.6
75°	447.4	444.3	448.9	441.2	415.1	387.4	365.9	345.9	315.2	302.9	296.7
77.5°	282.9	292.1	302.9	285.9	275.2	255.2	233.7	213.7	189.1	175.3	175.3
80°	192.2	199.9	207.5	204.5	192.2	173.7	156.8	135.3	118.4	107.6	106.1
82.5°	146.0	152.2	163.0	150.7	138.4	123.0	109.1	93.8	78.4	66.1	66.1
85°	52.3	60.0	66.1	72.3	76.9	78.4	67.6	55.3	44.6	35.4	33.8
87.5°	13.8	15.4	16.9	15.4	15.4	15.4	16.9	15.4	13.8	10.8	10.8
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)