

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: P530921

Luminaire Tested: **GALN-SA6A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12869 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

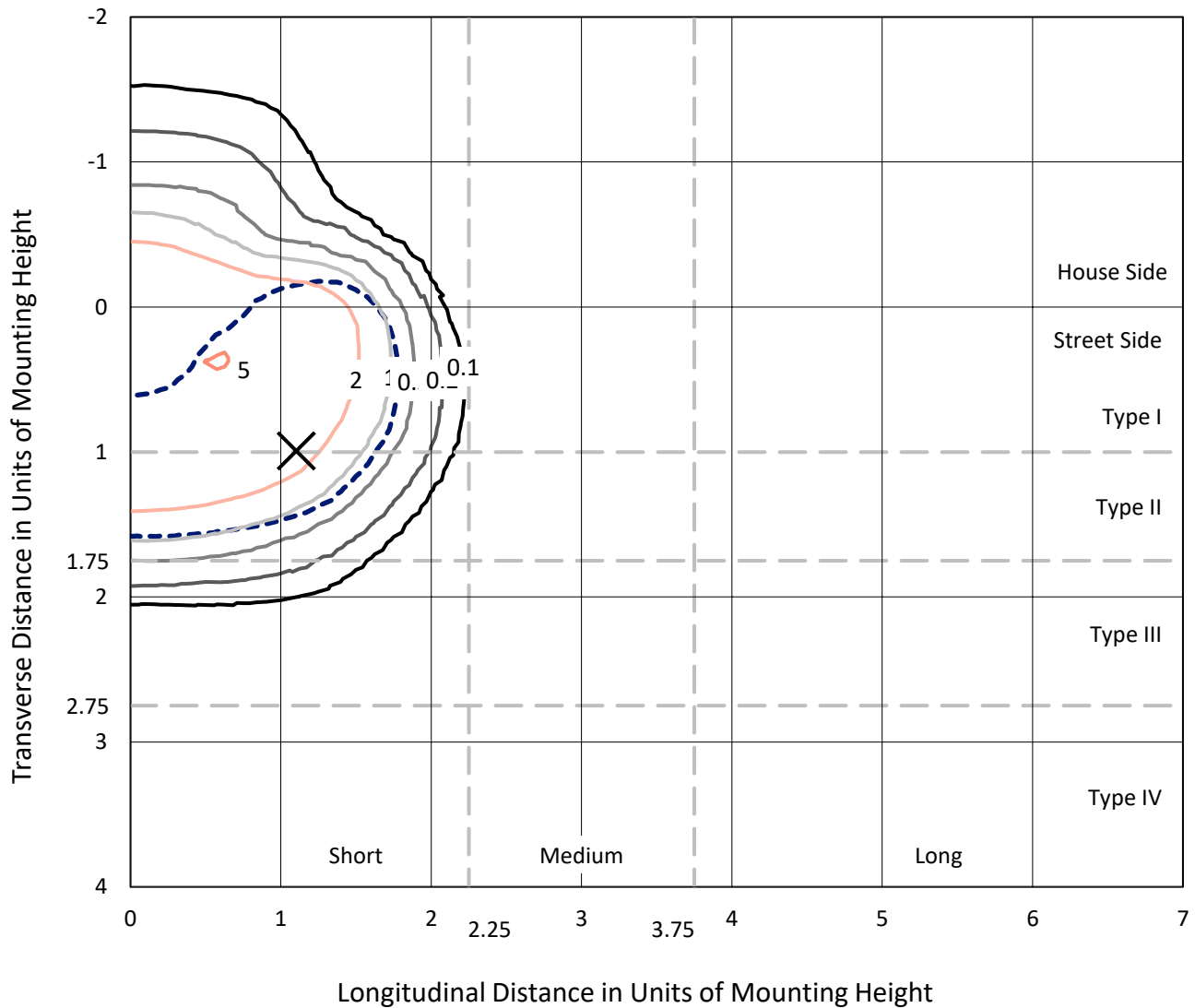
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

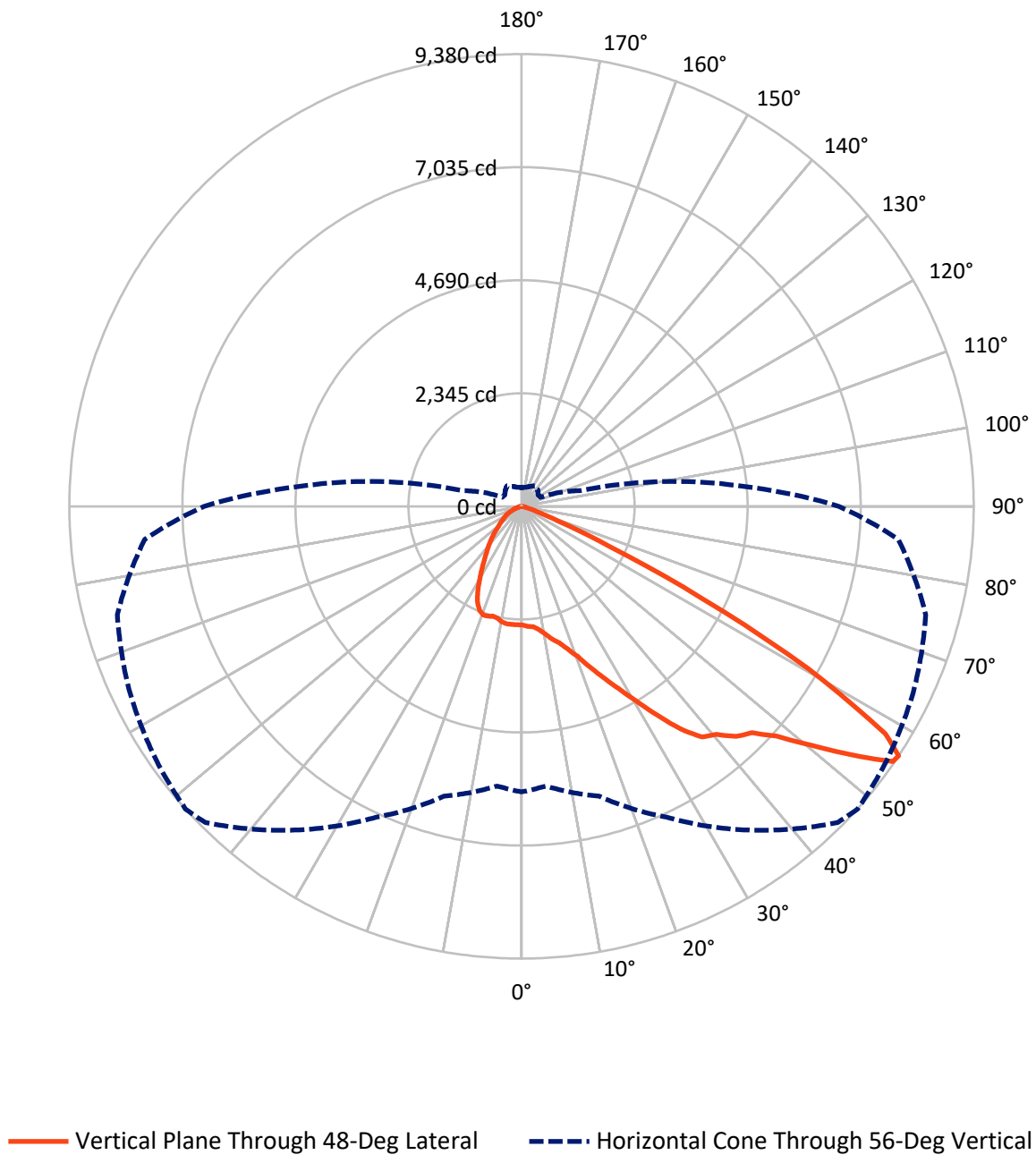
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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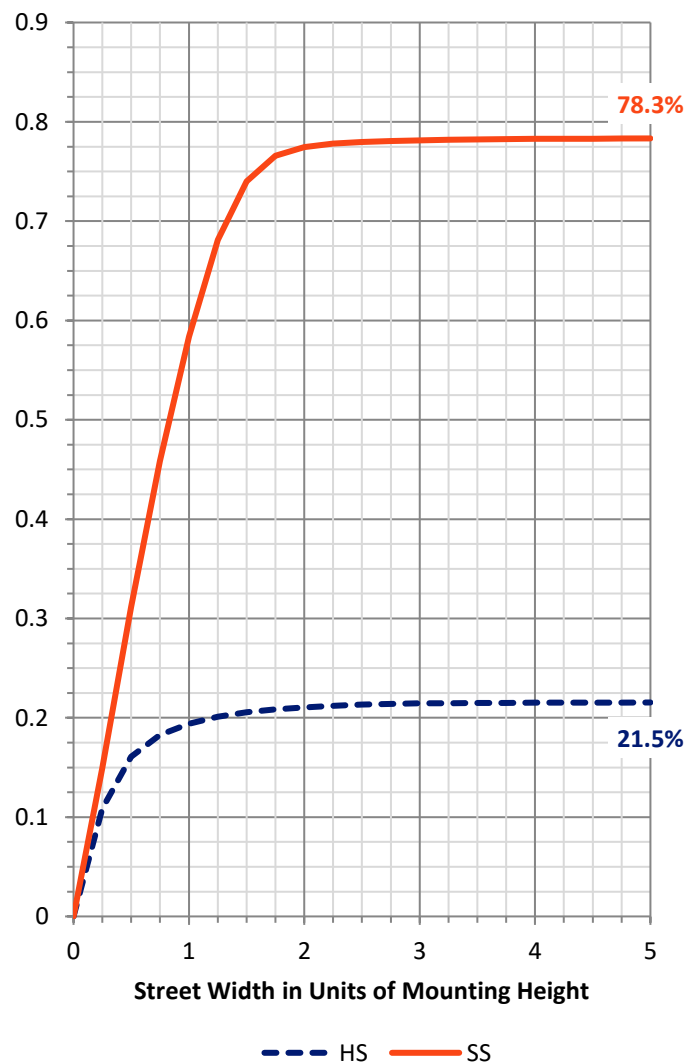
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2798.8	0.0	2798.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10070.2	0.0	10070.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	12869.0	0.0	12869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.9
10°-20°	765.2	5.9
20°-30°	1387.9	10.8
30°-40°	2180.1	16.9
40°-50°	3180.4	24.7
50°-60°	3831.8	29.8
60°-70°	1121.9	8.7
70°-80°	142.3	1.1
80°-90°	19.9	0.2
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°	12869.0	100.0
0°-180°	12869.0	100.0

Coefficient of Utilization



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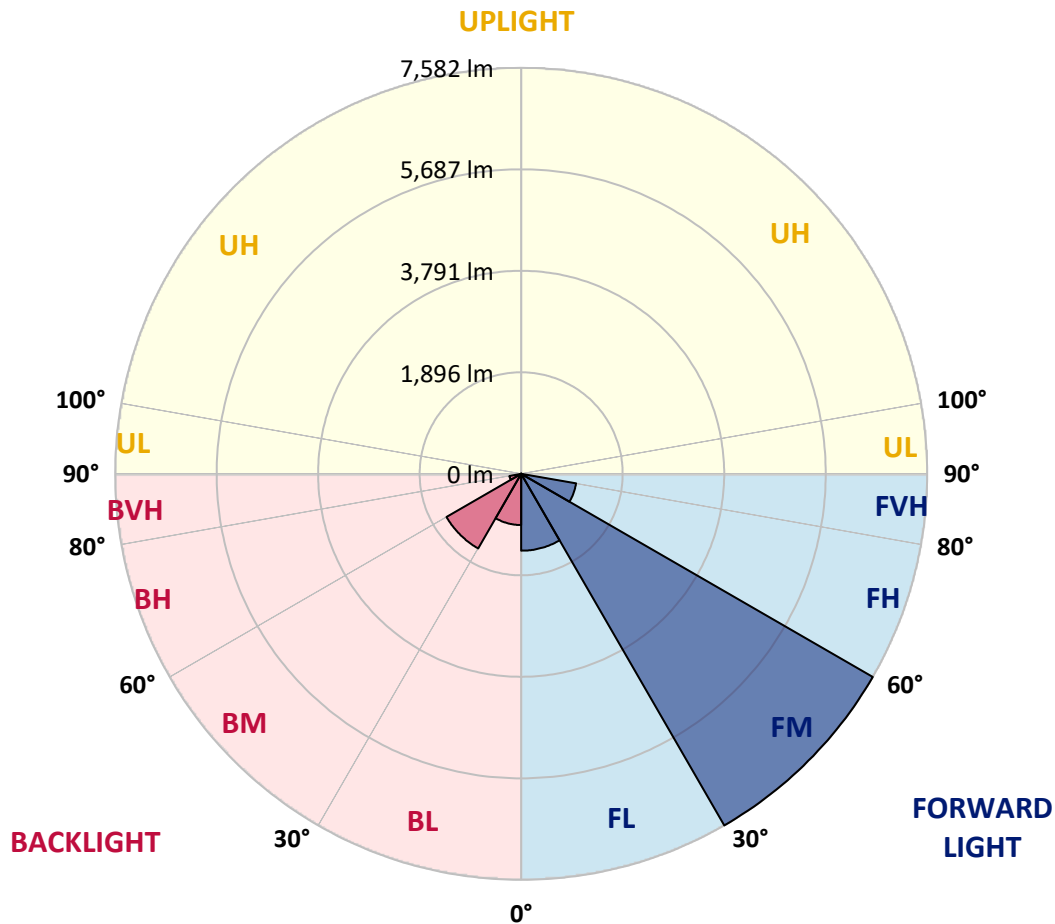
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1435.9	11.2			
FM	(30°-60°)	7582.4	58.9			
FH	(60°-80°)	1041.8	8.1			G1/1800
FVH	(80°-90°)	10.0	0.1			G1/100
BL	(0°-30°)	956.6	7.4	B2/1000		
BM	(30°-60°)	1609.8	12.5	B2/2500		
BH	(60°-80°)	222.4	1.7	B1/500		G1/500
BVH	(80°-90°)	9.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0
2.5°	2502.5	2490.8	2490.8	2472.0	2493.1	2483.8	2490.8	2467.4	2490.8	2455.6	2483.8
5°	2514.2	2516.6	2507.2	2518.9	2518.9	2533.0	2509.5	2530.6	2542.3	2516.6	2504.8
7.5°	2575.1	2579.8	2577.5	2568.1	2586.9	2584.5	2582.2	2565.8	2570.5	2561.1	2547.0
10°	2694.6	2692.3	2704.0	2680.6	2666.5	2682.9	2687.6	2661.8	2643.1	2636.1	2591.5
12.5°	2868.0	2839.9	2823.5	2800.1	2807.1	2783.7	2825.9	2781.3	2772.0	2729.8	2685.3
15°	3008.6	3003.9	3006.3	2968.8	2926.6	2936.0	2936.0	2912.6	2898.5	2847.0	2783.7
17.5°	3296.8	3198.4	3219.5	3172.7	3137.5	3135.2	3114.1	3118.8	3081.3	2973.5	2877.4
20°	3521.8	3479.6	3446.8	3367.1	3313.2	3329.6	3320.3	3296.8	3285.1	3144.5	3008.6
22.5°	3723.3	3737.4	3683.5	3662.4	3587.4	3594.4	3613.2	3592.1	3503.0	3357.8	3156.2
25°	4006.8	3990.4	3917.8	3892.0	3821.7	3847.5	3920.1	3903.7	3847.5	3585.0	3271.1
27.5°	4341.9	4285.7	4299.7	4182.6	4114.6	4187.2	4273.9	4356.0	4196.6	3852.2	3407.0
30°	4578.6	4520.0	4515.3	4510.6	4494.2	4578.6	4679.3	4754.3	4625.4	4119.3	3631.9
32.5°	4695.7	4709.8	4749.6	4735.5	4878.5	5051.9	5157.3	5265.1	5103.4	4555.1	3929.5
35°	5007.4	4918.3	5007.4	5016.7	5164.3	5532.2	5665.8	5923.5	5883.7	5171.4	4292.7
37.5°	5190.1	5183.1	5194.8	5283.8	5426.8	5881.4	6071.2	6270.3	6195.3	5541.6	4744.9
40°	5492.4	5511.1	5508.8	5576.7	5733.7	6143.8	6221.1	6382.8	6389.8	6054.7	5410.4
42.5°	5977.4	5902.4	5853.2	5923.5	6143.8	6371.1	6525.7	6492.9	6724.9	6678.0	6265.6
45°	6413.3	6457.8	6385.1	6502.3	6582.0	6703.8	6699.1	6769.4	7064.7	7287.3	6910.0
47.5°	6821.0	6849.1	6884.2	6963.9	7137.3	7156.0	7116.2	7085.7	7493.5	7723.1	7409.1
50°	7064.7	7090.4	7254.5	7397.4	7720.7	7762.9	7786.4	7709.0	7985.5	8011.3	7880.1
52.5°	6999.0	7027.2	7256.8	7727.8	8243.3	8629.9	8559.6	8428.4	8412.0	8512.7	8315.9
55°	6417.9	6392.2	6708.5	7441.9	8407.3	9335.2	9344.6	9206.3	8941.5	8873.6	8250.3
56°	5923.5	5822.8	6225.8	7111.5	8196.4	9274.3	9379.7	9232.1	8983.7	8679.1	7844.9
57.5°	4852.7	4948.8	5349.5	6082.9	7467.7	8836.1	8897.0	8861.9	8674.4	8163.6	6903.0
60°	2675.9	2844.6	3198.4	4095.9	5316.7	6781.1	6830.3	7116.2	7151.4	6251.6	4749.6
62.5°	1136.4	1117.7	1485.6	2146.3	3027.4	4093.5	4184.9	4477.8	4531.7	3603.8	2383.0
65°	461.6	487.4	672.5	1080.2	1600.4	1865.2	1994.0	2090.1	2268.2	1487.9	878.7
67.5°	304.6	302.3	396.0	616.3	862.3	831.8	831.8	878.7	813.1	606.9	379.6
70°	217.9	224.9	283.5	426.5	536.6	398.3	381.9	365.5	414.7	400.7	307.0
72.5°	142.9	152.3	189.8	255.4	278.8	217.9	217.9	262.4	342.1	323.4	250.7
75°	93.7	96.1	117.2	147.6	138.2	112.5	124.2	175.7	248.4	239.0	178.1
77.5°	63.3	65.6	79.7	96.1	77.3	63.3	68.0	89.0	121.8	121.8	93.7
80°	23.4	25.8	32.8	30.5	35.1	44.5	49.2	60.9	72.6	72.6	63.3
82.5°	0.0	2.3	7.0	16.4	25.8	35.1	39.8	46.9	53.9	60.9	58.6
85°	0.0	2.3	7.0	11.7	18.7	21.1	23.4	16.4	14.1	14.1	11.7
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.7	2.3	2.3
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°	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0	2458.0
2.5°	2458.0	2455.6	2455.6	2448.6	2462.7	2455.6	2460.3	2458.0	2427.5	2451.0	2434.6
5°	2483.8	2500.2	2474.4	2469.7	2451.0	2458.0	2458.0	2434.6	2455.6	2453.3	2448.6
7.5°	2549.4	2521.3	2493.1	2465.0	2460.3	2453.3	2427.5	2418.2	2434.6	2415.8	2443.9
10°	2577.5	2582.2	2540.0	2502.5	2467.4	2418.2	2383.0	2361.9	2336.1	2364.3	2380.7
12.5°	2706.4	2659.5	2586.9	2528.3	2408.8	2359.6	2324.4	2315.1	2359.6	2368.9	2352.5
15°	2750.9	2743.9	2650.1	2518.9	2394.7	2336.1	2343.2	2324.4	2329.1	2305.7	2310.4
17.5°	2842.3	2762.6	2652.5	2488.4	2392.4	2378.3	2336.1	2261.2	2219.0	2200.2	2216.6
20°	2943.0	2865.7	2706.4	2500.2	2413.5	2376.0	2237.7	2146.3	2059.6	2012.8	2015.1
22.5°	3032.1	2936.0	2682.9	2504.8	2432.2	2277.6	2111.2	1930.8	1823.0	1750.3	1752.7
25°	3139.8	3003.9	2692.3	2514.2	2383.0	2120.6	1881.6	1705.8	1577.0	1527.7	1544.1
27.5°	3200.8	3046.1	2743.9	2535.3	2254.1	1898.0	1640.2	1476.2	1401.2	1377.8	1375.4
30°	3383.5	3139.8	2807.1	2493.1	2038.6	1659.0	1420.0	1319.2	1246.6	1225.5	1230.2
32.5°	3655.3	3310.9	2889.1	2383.0	1818.3	1445.7	1277.0	1202.0	1134.1	1094.3	1089.6
35°	3882.6	3603.8	2975.8	2212.0	1562.9	1281.7	1176.3	1082.5	979.4	934.9	923.2
37.5°	4316.1	3934.2	2957.1	1954.2	1319.2	1159.9	1068.5	953.7	864.6	803.7	796.7
40°	4892.5	4320.8	2865.7	1640.2	1138.8	1052.1	953.7	843.5	733.4	681.9	677.2
42.5°	5593.1	4794.1	2699.3	1321.5	958.4	944.3	855.3	728.7	630.3	592.8	595.2
45°	6162.5	5199.5	2530.6	1061.5	824.8	838.9	761.5	642.0	574.1	543.6	543.6
47.5°	6668.7	5473.6	2347.9	876.3	700.6	733.4	665.5	595.2	536.6	513.2	508.5
50°	7156.0	5752.5	2165.1	710.0	597.5	630.3	623.3	567.0	520.2	492.1	494.4
52.5°	7460.7	5797.0	1933.1	581.1	522.5	560.0	583.4	531.9	480.3	463.9	459.3
55°	7088.1	5222.9	1499.6	478.0	442.9	492.1	536.6	478.0	438.2	410.1	407.7
56°	6586.6	4669.9	1253.6	440.5	419.4	473.3	520.2	456.9	412.4	396.0	384.3
57.5°	5576.7	3821.7	925.6	391.3	389.0	440.5	494.4	435.8	384.3	370.2	370.2
60°	3477.3	2151.0	560.0	328.0	337.4	391.3	445.2	389.0	342.1	342.1	349.1
62.5°	1584.0	895.1	339.8	278.8	290.6	337.4	396.0	351.5	325.7	351.5	356.2
65°	538.9	386.6	246.0	222.6	229.6	278.8	339.8	356.2	353.8	370.2	379.6
67.5°	302.3	248.4	206.2	185.1	180.4	206.2	278.8	356.2	342.1	335.1	339.8
70°	255.4	210.9	182.8	164.0	157.0	166.4	215.6	269.5	241.3	234.3	229.6
72.5°	206.2	175.7	159.3	147.6	126.5	107.8	98.4	103.1	114.8	121.8	133.6
75°	145.3	133.6	133.6	119.5	91.4	68.0	53.9	44.5	30.5	21.1	23.4
77.5°	82.0	82.0	84.4	72.6	58.6	44.5	32.8	23.4	11.7	4.7	2.3
80°	56.2	60.9	65.6	58.6	49.2	39.8	28.1	16.4	7.0	0.0	0.0
82.5°	56.2	63.3	68.0	58.6	49.2	37.5	28.1	16.4	7.0	2.3	0.0
85°	11.7	14.1	16.4	18.7	28.1	28.1	21.1	14.1	7.0	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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)