

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: P530917

Luminaire Tested: **GALN-SA6A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12712 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

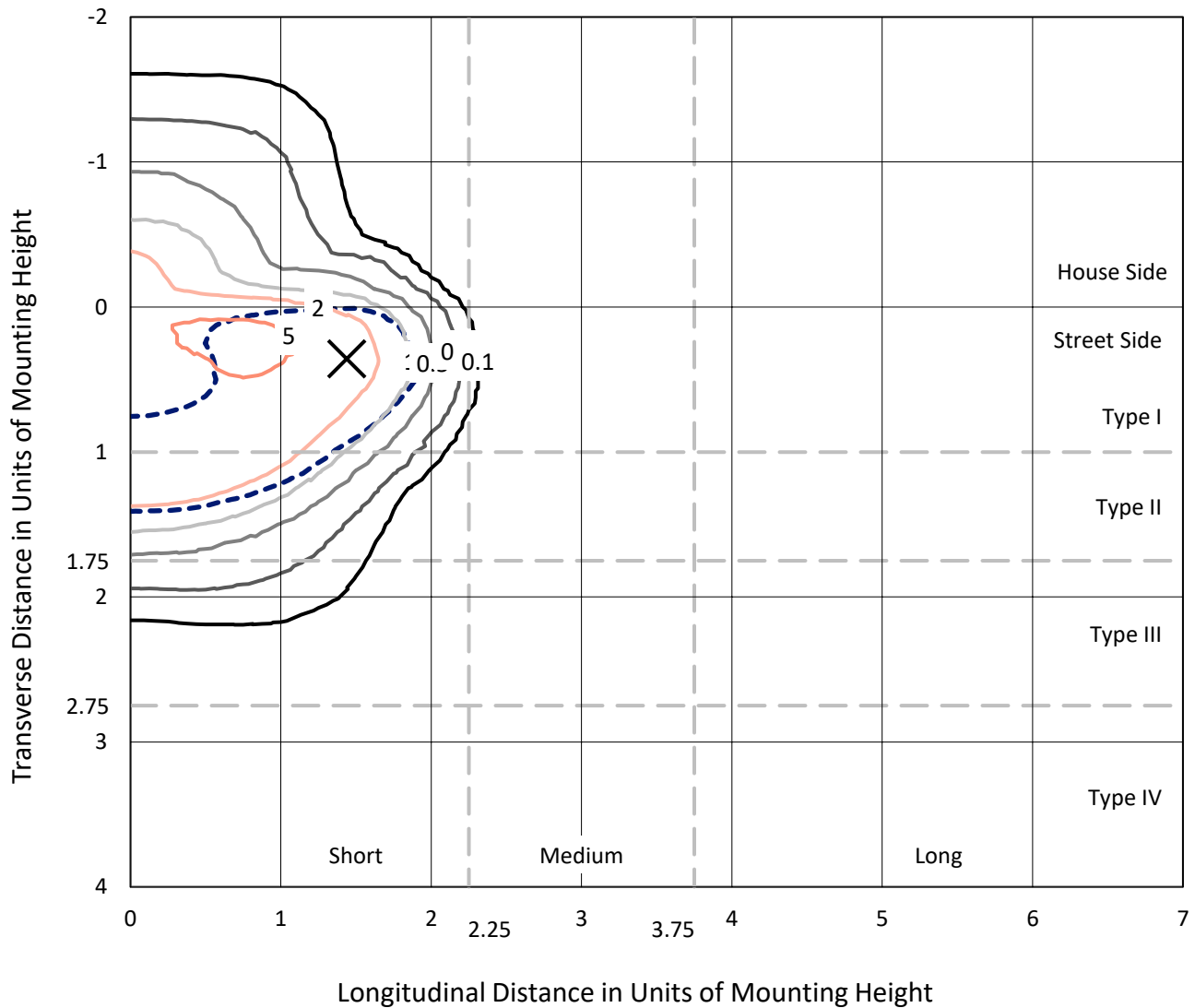
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

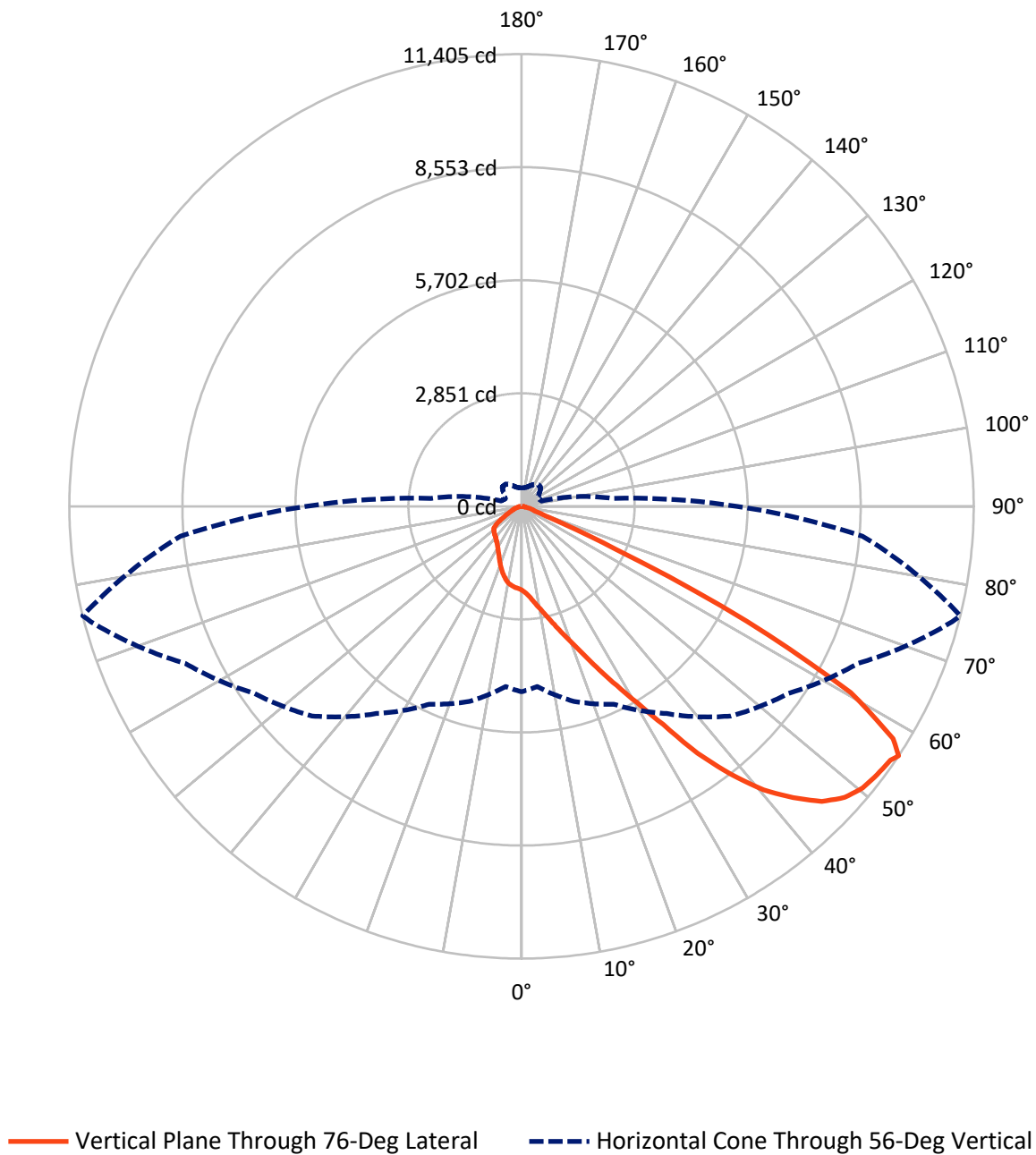
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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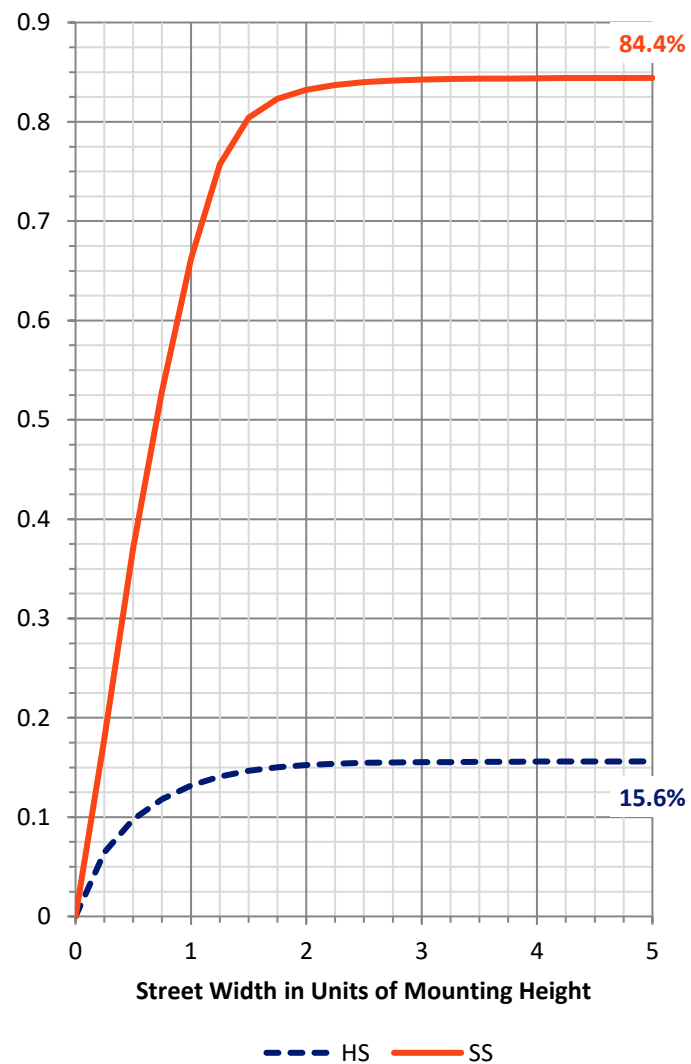
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1997.0	0.0	1997.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10715.0	0.0	10715.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	12712.0	0.0	12712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.7
10°-20°	684.8	5.4
20°-30°	1241.7	9.8
30°-40°	2141.3	16.8
40°-50°	3478.7	27.4
50°-60°	3666.6	28.8
60°-70°	1120.3	8.8
70°-80°	143.6	1.1
80°-90°	21.8	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°	12712.0	100.0
0°-180°	12712.0	100.0

Coefficient of Utilization



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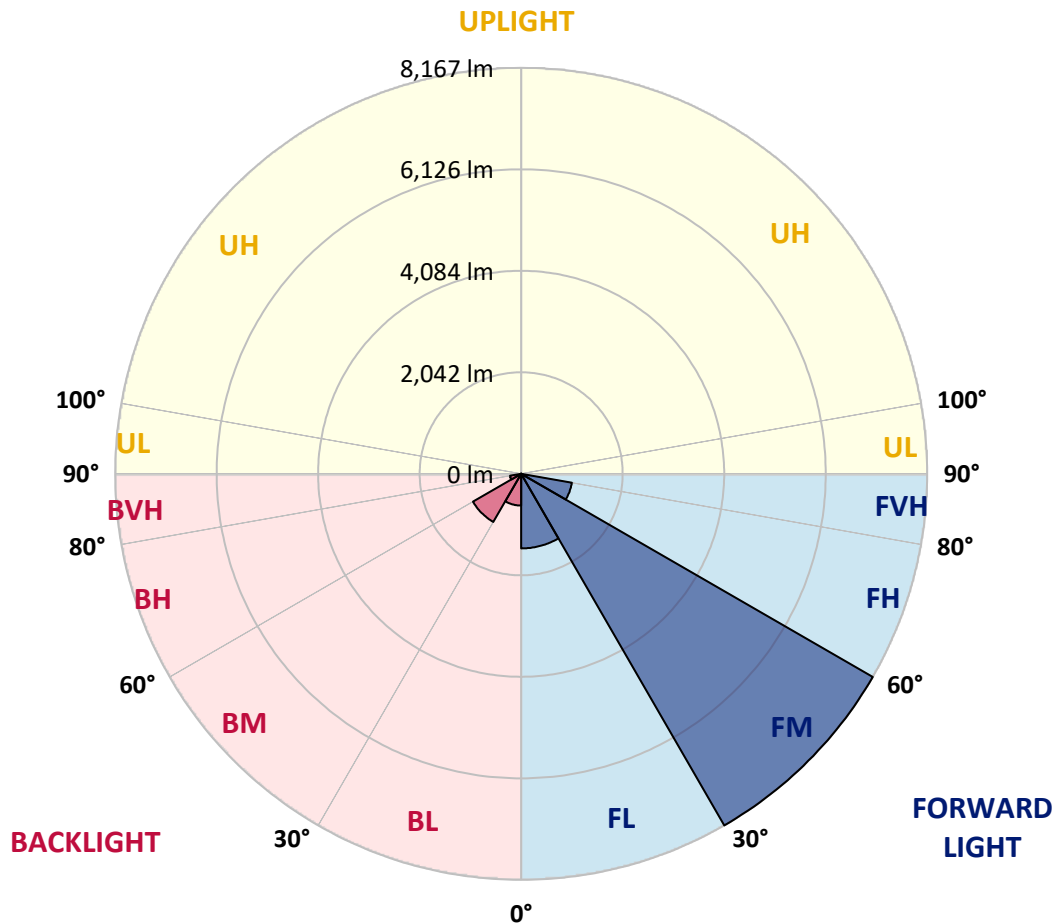
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.8	11.8			
FM	(30°-60°)	8167.4	64.2			
FH	(60°-80°)	1036.1	8.2			G1/1800
FVH	(80°-90°)	10.7	0.1			G1/100
BL	(0°-30°)	638.8	5.0	B2/1000		
BM	(30°-60°)	1119.2	8.8	B2/2500		
BH	(60°-80°)	227.8	1.8	B1/500		G1/500
BVH	(80°-90°)	11.1	0.1			G1/100
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°	55°	65°	75°	76°	85°
0°	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9
2.5°	2437.0	2380.7	2383.1	2378.4	2371.3	2345.6	2268.2	2256.5	2205.0	2190.9	2144.1
5°	2729.9	2680.6	2708.8	2666.6	2626.8	2603.3	2476.8	2418.2	2336.2	2305.7	2240.1
7.5°	2912.6	2889.2	2879.8	2882.2	2844.7	2786.1	2729.9	2601.0	2490.8	2467.4	2329.2
10°	3001.7	2987.6	3001.7	2994.6	3011.0	3018.1	2919.7	2842.3	2680.6	2640.8	2425.2
12.5°	3022.8	3050.9	3062.6	3093.1	3132.9	3200.8	3193.8	3088.4	2872.8	2847.0	2572.9
15°	3074.3	3097.7	3086.0	3135.2	3210.2	3325.0	3386.0	3369.6	3137.6	3090.7	2743.9
17.5°	3121.2	3079.0	3118.8	3217.2	3292.2	3468.0	3615.6	3683.5	3425.8	3371.9	2900.9
20°	3184.4	3172.7	3165.7	3214.9	3348.5	3582.8	3875.7	3999.9	3749.2	3692.9	3125.9
22.5°	3376.6	3378.9	3374.2	3301.6	3397.7	3662.5	4103.0	4409.9	4135.8	4088.9	3381.3
25°	3629.7	3599.2	3575.8	3517.2	3505.5	3735.1	4332.6	4911.4	4599.7	4566.9	3657.8
27.5°	3896.8	3896.8	3826.5	3772.6	3697.6	3915.5	4543.5	5398.8	5159.8	5115.3	3899.1
30°	4187.3	4203.7	4194.4	4079.6	4032.7	4112.4	4759.1	6022.1	5801.8	5745.6	4297.5
32.5°	4616.2	4581.0	4620.8	4524.8	4386.5	4456.8	5098.9	6579.8	6636.0	6556.3	4820.0
35°	5183.2	5162.1	5136.3	4979.4	4815.3	4871.6	5579.2	7266.3	7683.4	7643.6	5347.2
37.5°	5691.7	5680.0	5658.9	5551.1	5361.3	5429.3	6125.2	7981.0	8705.1	8573.9	6092.4
40°	6225.9	6289.2	6221.3	6125.2	5951.8	6101.8	6767.2	8405.1	9565.0	9405.7	6661.8
42.5°	6950.0	6900.8	6931.3	6755.5	6661.8	6825.8	7411.6	8829.3	10232.9	10043.1	7266.3
45°	7720.9	7723.3	7641.3	7585.0	7341.3	7519.4	7807.6	9063.6	10764.8	10617.1	7723.3
47.5°	8215.3	8213.0	8302.0	8391.1	8140.4	7964.6	8077.1	9286.2	11038.9	10971.0	7889.6
50°	8138.0	8161.5	8276.3	8609.0	8740.2	8503.6	8330.2	9220.6	11163.1	11156.1	8032.6
52.5°	7078.9	7156.2	7348.4	7828.7	8489.5	8782.4	8594.9	9342.4	11224.0	11235.8	8245.8
55°	5389.4	5431.6	5797.1	6380.6	7111.7	8114.6	8489.5	9438.5	11270.9	11292.0	8503.6
56°	4674.7	4562.3	5089.5	5504.2	6378.3	7474.9	8222.4	9363.5	11242.8	11404.5	8632.4
57.5°	3528.9	3453.9	3880.4	4398.2	5239.4	6397.0	7392.9	9009.7	11053.0	11050.6	8447.3
60°	2146.4	2071.4	2399.5	2704.1	3175.1	3939.0	4995.8	7175.0	9344.8	9541.6	6839.9
62.5°	1277.1	1323.9	1647.3	1832.4	1984.7	2064.4	2584.6	4264.7	6235.3	6375.9	4243.6
65°	850.6	867.0	1110.7	1415.3	1483.3	1181.0	1052.1	1727.0	2704.1	2617.4	1750.4
67.5°	524.9	562.4	745.1	1063.8	1178.6	862.3	499.1	644.4	745.1	745.1	506.1
70°	318.7	337.4	496.8	724.1	808.4	555.3	363.2	363.2	358.5	351.5	302.3
72.5°	152.3	164.0	253.1	372.6	379.6	292.9	281.2	307.0	299.9	297.6	250.7
75°	65.6	70.3	89.0	117.2	133.6	124.2	171.1	220.3	227.3	220.3	180.4
77.5°	21.1	23.4	32.8	42.2	44.5	53.9	72.6	91.4	105.4	98.4	89.0
80°	2.3	4.7	9.4	21.1	32.8	42.2	53.9	60.9	68.0	68.0	63.3
82.5°	2.3	2.3	9.4	18.7	30.5	39.8	51.6	58.6	68.0	70.3	65.6
85°	0.0	2.3	7.0	16.4	25.8	25.8	23.4	23.4	16.4	16.4	16.4
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9	2115.9
2.5°	2134.7	2130.0	2066.7	2026.9	2005.8	1963.6	1937.8	1919.1	1905.0	1888.6	1891.0
5°	2162.8	2146.4	2040.9	1968.3	1881.6	1834.7	1794.9	1762.1	1741.0	1736.3	1727.0
7.5°	2242.5	2155.8	1996.4	1865.2	1755.1	1708.2	1673.1	1652.0	1661.3	1640.3	1656.7
10°	2303.4	2174.5	1942.5	1752.7	1642.6	1607.5	1588.7	1605.1	1628.5	1619.2	1607.5
12.5°	2378.4	2193.3	1855.8	1644.9	1541.8	1516.1	1548.9	1579.3	1626.2	1644.9	1621.5
15°	2462.7	2214.3	1745.7	1520.8	1455.1	1476.2	1532.5	1586.4	1633.2	1656.7	1670.7
17.5°	2565.8	2207.3	1637.9	1422.3	1373.1	1434.1	1502.0	1551.2	1621.5	1656.7	1647.3
20°	2661.9	2183.9	1518.4	1323.9	1326.3	1382.5	1438.7	1518.4	1555.9	1602.8	1586.4
22.5°	2753.3	2141.7	1394.2	1256.0	1256.0	1342.7	1370.8	1422.3	1455.1	1478.6	1476.2
25°	2882.2	2062.0	1291.1	1190.4	1218.5	1274.7	1298.1	1314.5	1300.5	1319.2	1321.6
27.5°	2973.6	1980.0	1206.8	1131.8	1183.3	1225.5	1218.5	1209.1	1176.3	1150.5	1166.9
30°	3072.0	1884.0	1134.1	1091.9	1120.1	1157.6	1129.4	1101.3	1049.8	1007.6	1009.9
32.5°	3212.6	1839.4	1070.9	1045.1	1082.6	1087.3	1056.8	1014.6	963.1	923.2	920.9
35°	3475.0	1811.3	1017.0	1014.6	1021.6	1024.0	993.5	942.0	920.9	888.1	899.8
37.5°	3737.4	1797.3	979.5	970.1	967.8	970.1	934.9	885.7	925.6	923.2	927.9
40°	4072.5	1860.5	925.6	913.9	916.2	916.2	871.7	857.6	927.9	934.9	937.3
42.5°	4412.3	1940.2	890.4	852.9	862.3	862.3	838.9	822.5	871.7	824.8	817.8
45°	4707.5	2057.4	852.9	792.0	815.4	827.2	820.1	792.0	761.5	681.9	681.9
47.5°	4803.6	2160.5	808.4	733.4	752.2	803.7	782.6	724.1	670.2	604.6	599.9
50°	4972.3	2272.9	773.3	665.5	705.3	768.6	747.5	688.9	628.0	581.1	583.5
52.5°	5145.7	2401.8	707.7	585.8	635.0	740.5	740.5	674.8	581.1	548.3	543.6
55°	5405.8	2397.1	590.5	480.4	567.1	698.3	710.0	604.6	520.2	494.4	494.4
56°	5443.3	2289.3	531.9	449.9	536.6	686.6	688.9	585.8	496.8	468.6	468.6
57.5°	5162.1	2066.7	466.3	412.4	499.1	665.5	667.8	569.4	478.0	438.2	433.5
60°	3971.8	1398.9	389.0	367.9	452.2	599.9	611.6	517.9	419.4	389.0	386.6
62.5°	2242.5	775.6	342.1	332.7	389.0	510.8	546.0	452.2	356.2	339.8	344.5
65°	1024.0	426.5	288.2	269.5	314.0	393.7	440.5	372.6	292.9	274.2	274.2
67.5°	374.9	290.6	246.0	213.2	220.3	255.4	285.9	241.4	194.5	166.4	173.4
70°	267.1	243.7	215.6	185.1	171.1	166.4	164.0	135.9	96.1	75.0	79.7
72.5°	215.6	201.5	180.4	157.0	133.6	112.5	96.1	70.3	44.5	30.5	28.1
75°	154.7	147.6	131.2	112.5	93.7	79.7	65.6	44.5	23.4	11.7	11.7
77.5°	79.7	79.7	77.3	70.3	58.6	46.9	37.5	25.8	14.1	4.7	4.7
80°	60.9	65.6	68.0	60.9	53.9	42.2	30.5	18.7	9.4	2.3	2.3
82.5°	58.6	68.0	72.6	63.3	53.9	39.8	30.5	18.7	9.4	2.3	2.3
85°	14.1	14.1	21.1	23.4	30.5	32.8	25.8	16.4	7.0	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	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)