

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: P530672

Luminaire Tested: **GALN-SA5D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27779 lumens
Efficiency: N/A
Efficacy: 89.9 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): 309
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



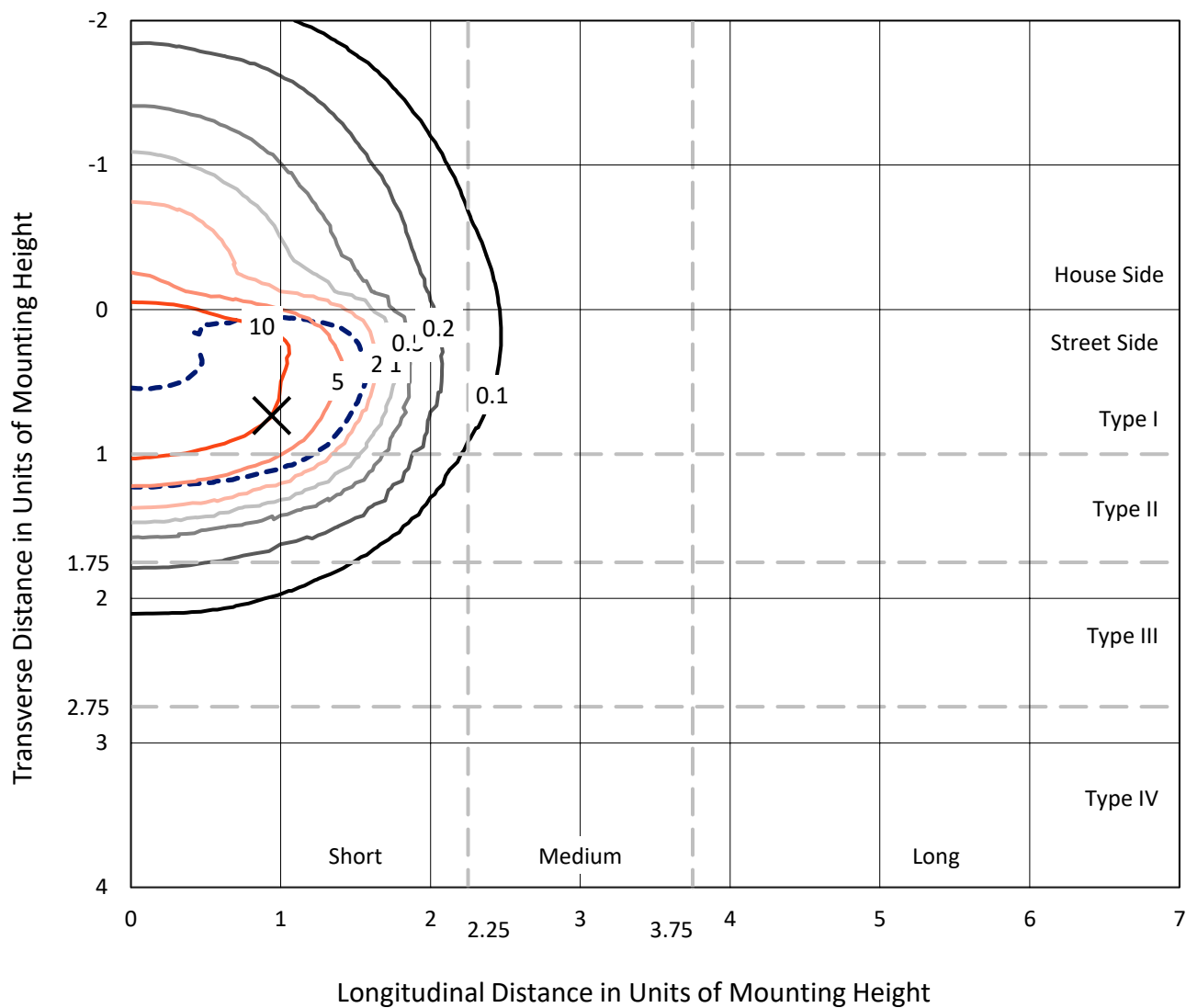
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

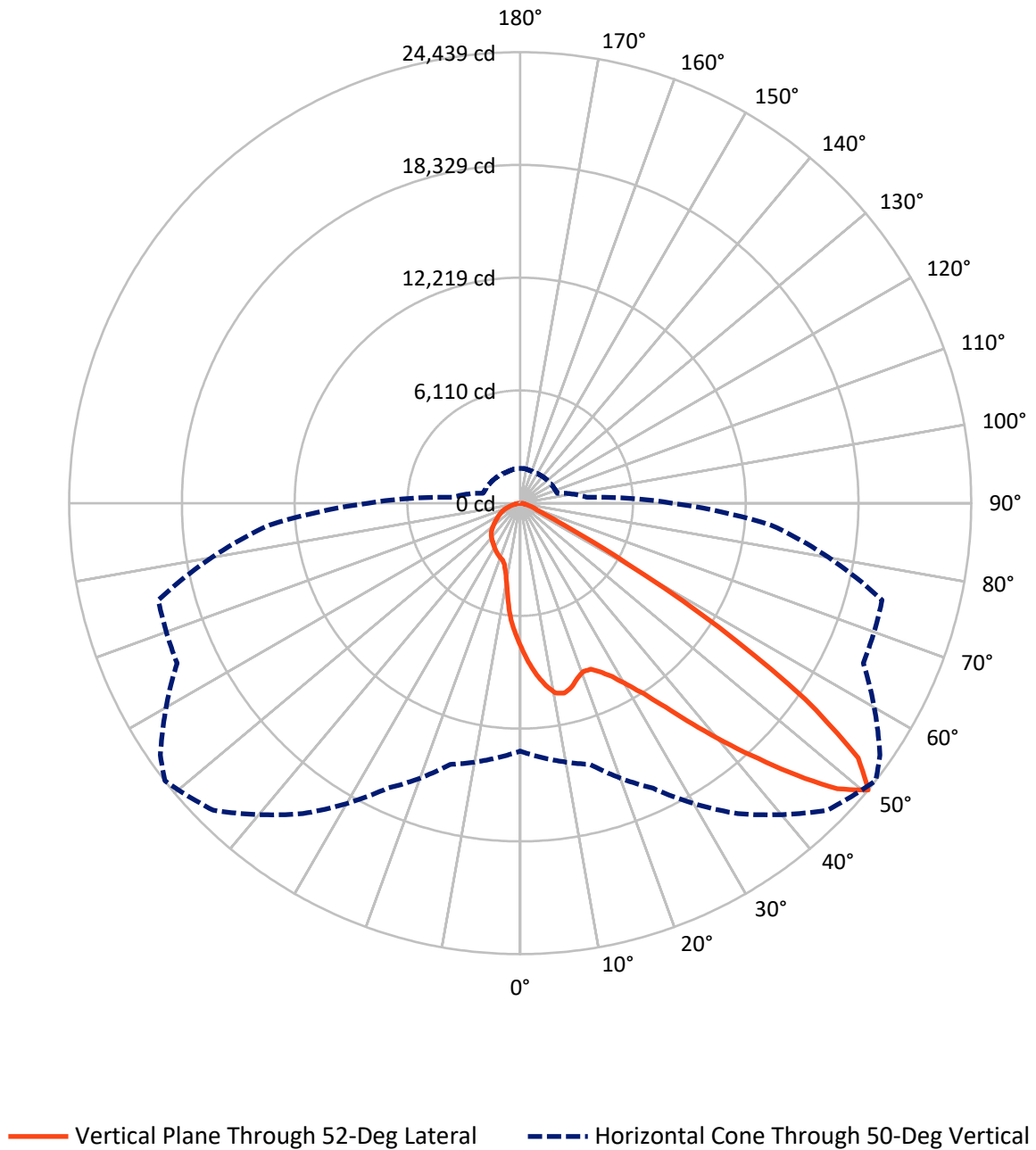
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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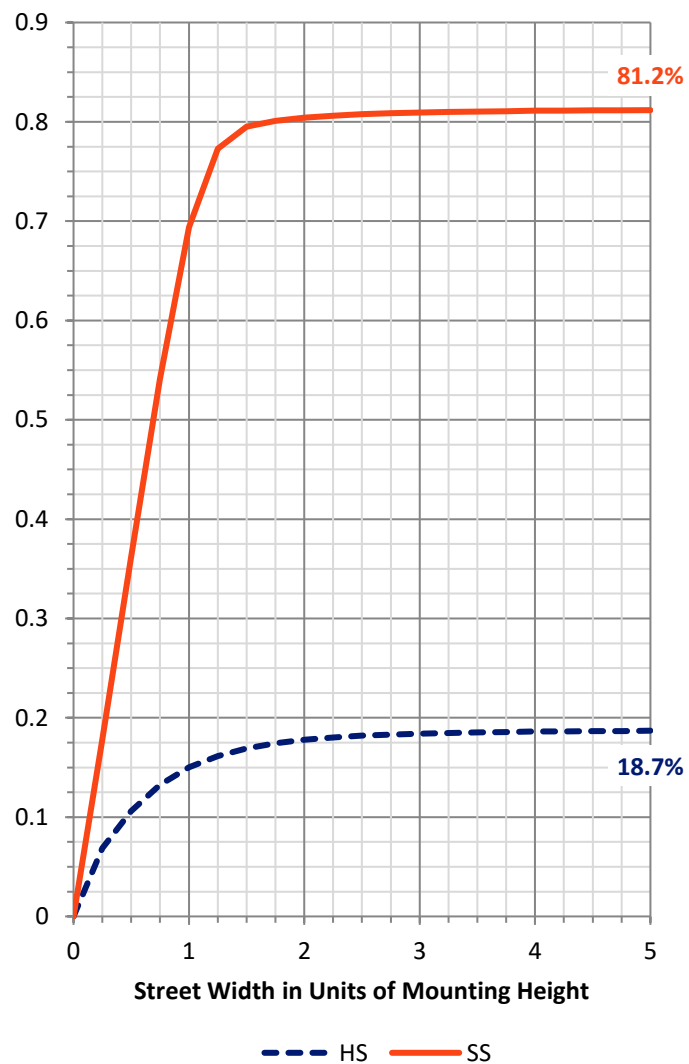
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5221.8	0.0	5221.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22557.2	0.0	22557.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	27779.0	0.0	27779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.7	2.6
10°-20°	1934.4	7.0
20°-30°	3258.4	11.7
30°-40°	5467.9	19.7
40°-50°	8364.6	30.1
50°-60°	6098.5	22.0
60°-70°	1357.2	4.9
70°-80°	489.5	1.8
80°-90°	86.7	0.3
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°	27779.0	100.0
0°-180°	27779.0	100.0

Coefficient of Utilization



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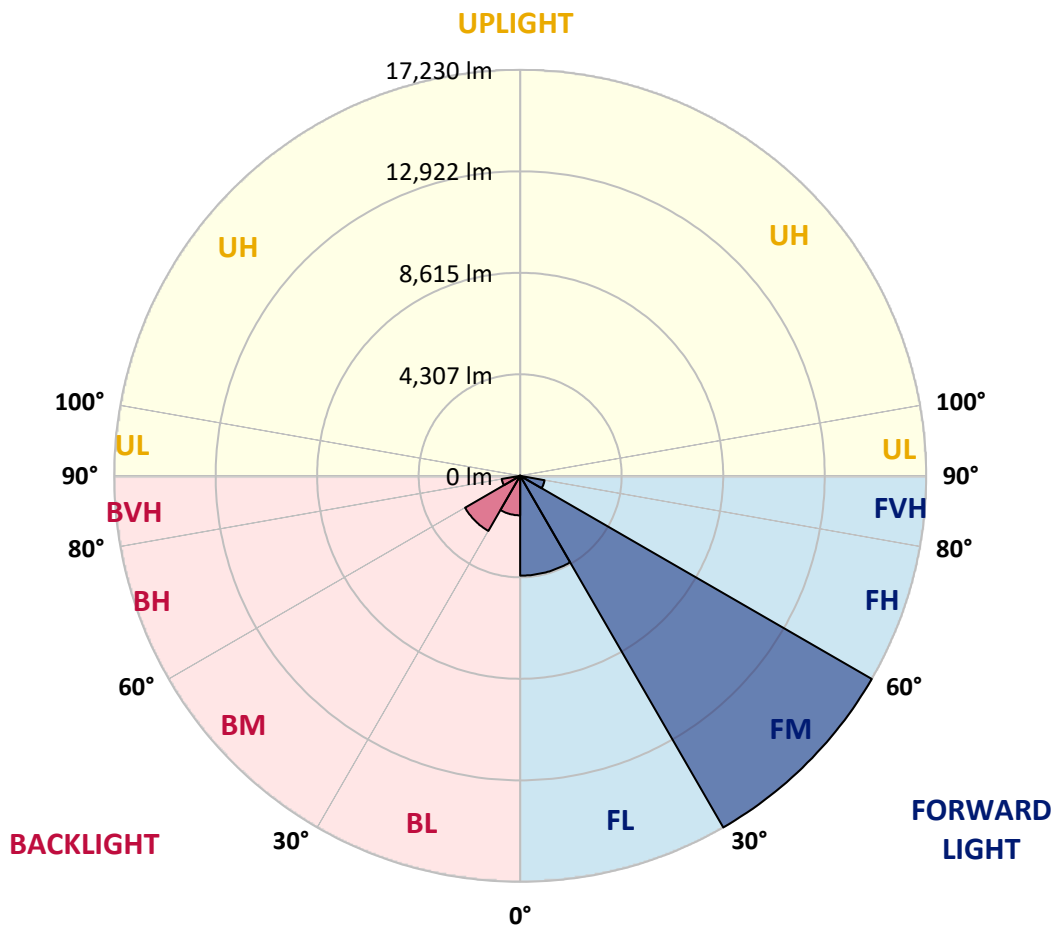
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4237.2	15.3			
FM	(30°-60°)	17229.9	62.0			
FH	(60°-80°)	1051.2	3.8			G1/1800
FVH	(80°-90°)	38.8	0.1			G1/100
BL	(0°-30°)	1677.3	6.0	B3/2500		
BM	(30°-60°)	2701.1	9.7	B3/5000		
BH	(60°-80°)	795.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	47.8	0.2			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°	52°	55°	65°	75°	85°
0°	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4
2.5°	9219.8	9042.3	9062.4	8935.2	8797.9	8757.8	8617.2	8483.3	8382.8	8168.6	7971.0
5°	10076.8	10023.2	9942.9	9842.5	9738.7	9484.2	9340.3	9172.9	8804.6	8473.2	8145.1
7.5°	10200.7	10190.6	10234.1	10234.1	10271.0	10173.9	9969.7	9852.5	9460.8	8921.8	8312.5
10°	9330.2	9360.4	9571.3	9845.8	10227.4	10491.9	10458.4	10428.3	9999.8	9263.3	8510.0
12.5°	8637.3	8570.3	8694.2	8928.5	9501.0	10140.4	10572.3	10575.6	10465.1	9809.0	8654.0
15°	8245.6	8292.4	8325.9	8436.4	8868.2	9608.1	10368.1	10592.4	11077.8	10194.0	8881.6
17.5°	8496.6	8339.3	8332.6	8359.4	8580.3	9136.1	9989.8	10374.7	11412.6	10689.4	9162.9
20°	8824.7	8821.4	8727.6	8694.2	8690.8	9186.3	9742.0	10264.3	11590.0	11332.2	9447.4
22.5°	9400.5	9400.5	9246.5	9172.9	9015.6	9420.6	9775.5	10130.4	11884.6	11774.1	9584.7
25°	10364.7	10207.4	9942.9	9762.1	9671.7	9815.7	10130.4	10448.4	12142.4	12242.8	9869.2
27.5°	11255.2	11007.5	10876.9	10565.6	10445.0	10361.4	10649.3	10970.7	12443.7	12972.6	10023.2
30°	12266.2	12222.7	11988.4	11586.6	11288.7	11134.7	11399.2	11717.2	12996.1	13719.2	10378.1
32.5°	14074.0	13679.0	13361.0	12868.8	12383.4	12055.3	12316.5	12527.4	13913.3	14499.2	10766.4
35°	16025.8	15898.6	15349.5	14462.4	13719.2	13424.6	13578.6	13735.9	14981.3	15691.0	11419.3
37.5°	17944.1	17770.0	17318.0	16571.5	15667.6	15068.3	15178.8	15362.9	16179.8	17297.9	12216.0
40°	19323.3	19109.1	18881.4	18771.0	17873.8	17053.6	16989.9	17036.8	17800.1	18804.4	13099.8
42.5°	19423.8	19688.2	19758.6	20203.8	19992.9	19320.0	18928.3	18938.3	19346.8	20294.2	13993.7
45°	19212.9	18968.5	19487.4	20702.6	21399.0	21713.7	21054.1	20970.4	20304.2	21157.9	14438.9
47.5°	17000.0	17066.9	17944.1	19865.7	21877.7	23283.8	23129.8	22851.9	20816.4	21127.8	14368.6
50°	13438.0	13843.0	14656.5	17050.2	20538.6	23531.5	24438.7	23796.0	20511.8	20297.5	13652.2
52.5°	8948.6	9116.0	9651.6	12741.6	16514.6	21034.1	22932.2	23079.5	20230.6	19209.5	12745.0
55°	3983.8	3970.5	4723.7	6655.4	10361.4	16005.7	18737.5	19634.7	19149.3	18101.4	11861.2
57.5°	1687.3	1744.2	2052.2	2875.7	5095.3	9658.3	12694.8	13481.5	14726.9	14864.1	9099.2
60°	1141.6	1148.3	1232.0	1439.5	2132.5	4536.2	6658.7	7602.8	8493.3	8433.0	4827.5
62.5°	897.2	920.6	984.2	1067.9	1265.5	2058.9	2979.5	3505.1	3562.0	2996.3	1831.2
65°	766.6	770.0	833.6	903.9	990.9	1198.5	1436.2	1463.0	1479.7	1426.2	1345.8
67.5°	632.7	639.4	689.6	770.0	850.3	917.3	984.2	1017.7	1094.7	1245.4	1225.3
70°	502.2	512.2	555.7	622.7	696.3	736.5	820.2	850.3	920.6	1037.8	1084.7
72.5°	381.6	385.0	421.8	468.7	535.6	575.8	646.1	679.6	726.5	826.9	870.4
75°	274.5	284.6	311.3	334.8	344.8	371.6	438.6	475.4	542.3	585.9	589.2
77.5°	144.0	150.6	157.3	157.3	190.8	241.0	284.6	304.6	351.5	385.0	368.3
80°	56.9	60.3	77.0	103.8	133.9	174.1	204.2	214.3	254.4	274.5	284.6
82.5°	33.5	36.8	50.2	73.7	97.1	123.9	147.3	157.3	184.1	207.6	214.3
85°	16.7	20.1	30.1	46.9	63.6	77.0	73.7	70.3	70.3	67.0	70.3
87.5°	6.7	6.7	10.0	10.0	10.0	13.4	16.7	16.7	16.7	20.1	20.1
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°	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4	7830.4
2.5°	7840.5	7706.6	7582.7	7355.1	7107.3	7037.0	6749.1	6645.3	6571.7	6484.6	6457.9
5°	7880.7	7703.2	7304.8	6846.2	6481.3	6012.6	5704.6	5373.2	5132.1	5071.9	5055.1
7.5°	7964.4	7659.7	6973.4	6280.4	5533.9	4897.8	4412.4	4151.2	3920.2	3906.9	3883.4
10°	8058.1	7529.1	6611.9	5523.8	4569.7	3980.5	3689.2	3575.4	3518.5	3505.1	3498.4
12.5°	8135.1	7502.4	6206.8	4787.3	3886.8	3531.9	3444.9	3434.8	3458.2	3464.9	3478.3
15°	8168.6	7395.2	5718.0	4127.8	3461.6	3331.0	3367.9	3408.0	3424.8	3468.3	3434.8
17.5°	8232.2	7258.0	5115.4	3605.6	3223.9	3247.3	3310.9	3357.8	3384.6	3414.7	3371.2
20°	8265.6	7134.1	4549.6	3294.2	3140.2	3183.7	3270.8	3307.6	3341.1	3354.5	3304.3
22.5°	8235.5	6879.7	4050.8	3043.1	3059.9	3116.8	3193.8	3233.9	3213.9	3160.3	3130.2
25°	8155.2	6521.5	3531.9	2882.4	2946.0	3046.5	3106.7	3076.6	3039.8	3009.6	2999.6
27.5°	8151.8	6082.9	3156.9	2735.1	2849.0	2986.2	2966.1	2939.3	2956.1	2932.6	2905.9
30°	8168.6	5657.7	2849.0	2651.4	2778.7	2845.6	2869.0	2842.3	2862.3	2818.8	2832.2
32.5°	8081.5	5242.6	2648.1	2554.4	2695.0	2691.6	2768.6	2788.7	2741.8	2651.4	2664.8
35°	8118.3	4907.8	2477.4	2510.8	2601.2	2601.2	2661.5	2638.0	2514.2	2460.6	2474.0
37.5°	8372.8	4579.8	2393.7	2450.6	2510.8	2537.6	2517.5	2417.1	2387.0	2387.0	2393.7
40°	8613.8	4298.5	2343.4	2437.2	2427.1	2443.9	2296.6	2306.6	2306.6	2310.0	2293.2
42.5°	8828.1	4107.7	2303.3	2356.8	2373.6	2286.5	2196.1	2186.1	2209.5	2206.2	2192.8
45°	8905.1	3950.4	2246.4	2266.4	2279.8	2135.9	2092.4	2072.3	2099.1	2109.1	2122.5
47.5°	8610.5	3819.8	2182.7	2142.6	2115.8	2022.1	1965.1	1928.3	1961.8	2018.7	2032.1
50°	8232.2	3649.1	2082.3	2005.3	1948.4	1908.2	1868.1	1831.2	1854.7	1894.8	1884.8
52.5°	7673.1	3381.3	1955.1	1874.8	1777.7	1787.7	1750.9	1730.8	1744.2	1744.2	1734.1
55°	6876.3	2778.7	1740.8	1683.9	1603.6	1630.4	1637.1	1610.3	1583.5	1606.9	1586.8
57.5°	4693.6	1961.8	1553.4	1553.4	1473.0	1509.8	1506.5	1442.9	1379.3	1386.0	1372.6
60°	2715.0	1563.4	1432.8	1419.5	1335.8	1365.9	1372.6	1329.1	1232.0	1238.7	1225.3
62.5°	1543.3	1335.8	1252.1	1232.0	1215.2	1242.0	1242.0	1185.1	1101.4	1108.1	1094.7
65°	1312.3	1238.7	1118.2	1114.8	1108.1	1114.8	1088.0	1027.8	954.1	924.0	927.3
67.5°	1191.8	1144.9	1027.8	997.6	977.5	974.2	924.0	867.1	833.6	806.8	803.5
70°	1044.5	1007.7	920.6	880.5	860.4	813.5	763.3	726.5	679.6	666.2	679.6
72.5°	826.9	823.6	790.1	746.6	703.0	666.2	622.7	572.5	528.9	518.9	495.5
75°	572.5	579.2	585.9	579.2	542.3	495.5	445.3	405.1	351.5	321.4	314.7
77.5°	375.0	385.0	395.0	381.6	358.2	314.7	281.2	231.0	190.8	167.4	164.0
80°	274.5	287.9	294.6	284.6	257.8	224.3	187.5	147.3	117.2	97.1	97.1
82.5°	210.9	224.3	231.0	214.3	187.5	160.7	133.9	103.8	80.3	63.6	60.3
85°	73.7	70.3	83.7	87.0	103.8	97.1	80.3	60.3	46.9	33.5	30.1
87.5°	20.1	20.1	23.4	23.4	20.1	16.7	16.7	16.7	13.4	10.0	10.0
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)