

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: P648622

Luminaire Tested: **GALN-SA8B-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36816.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

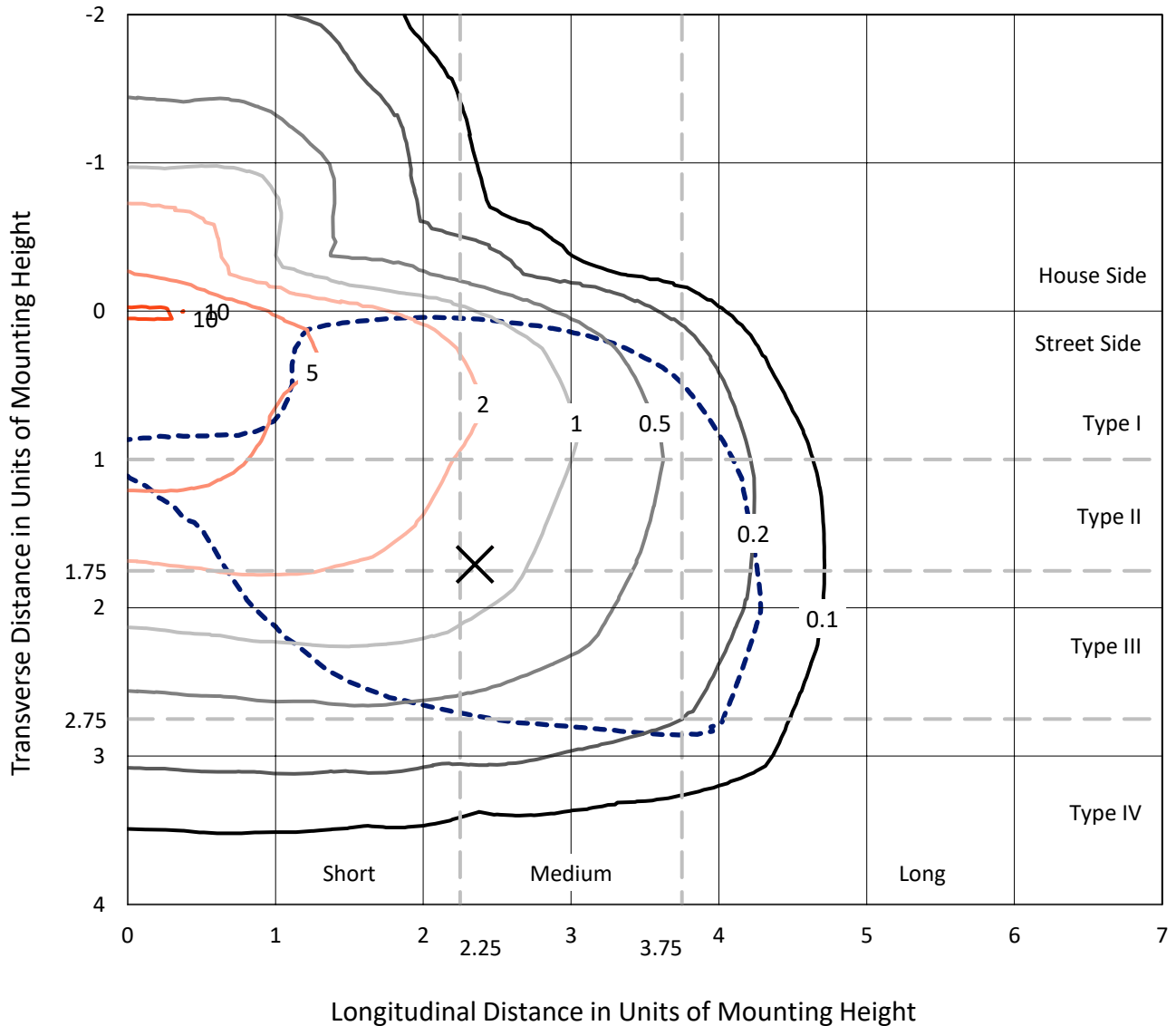
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

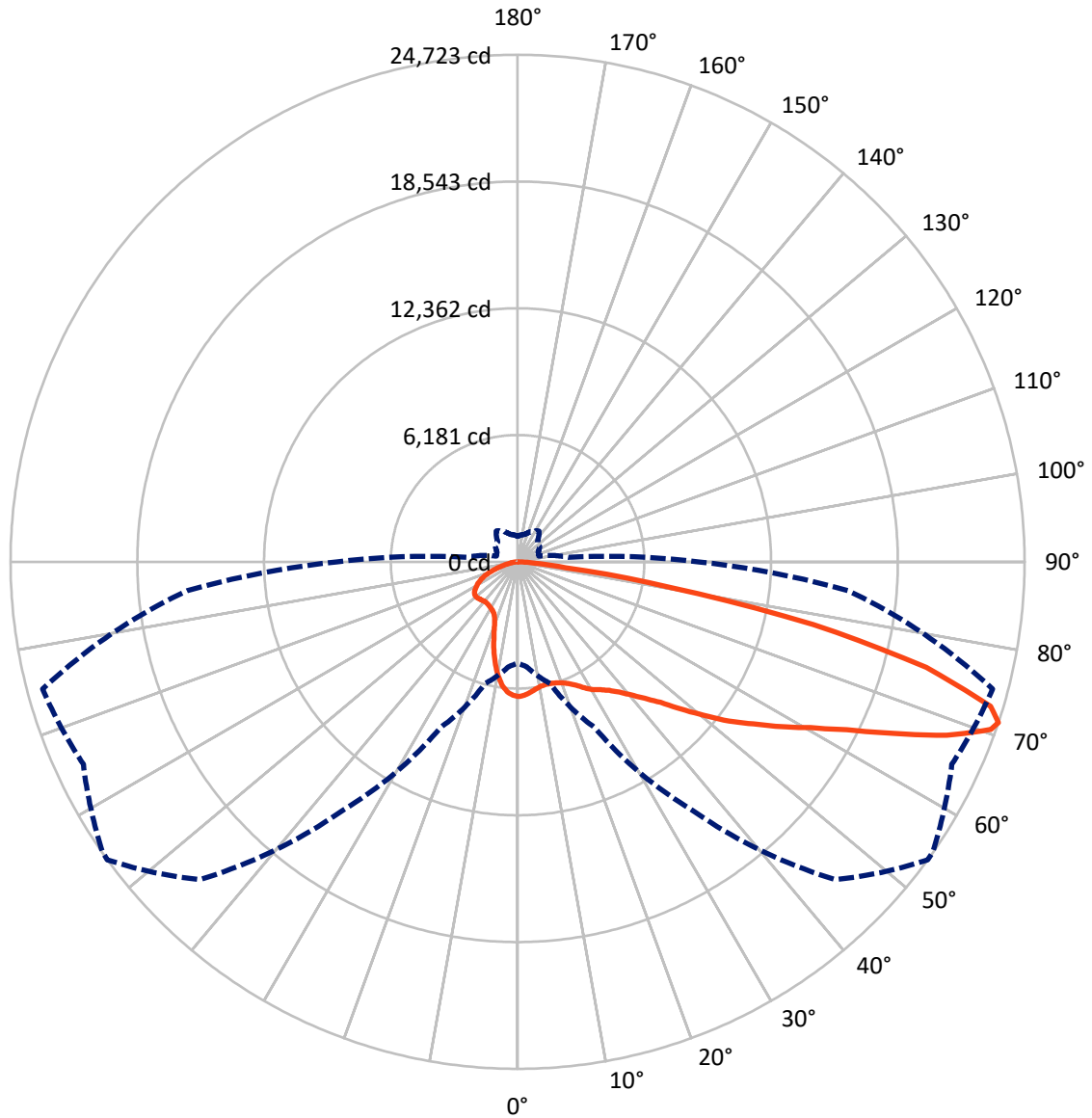
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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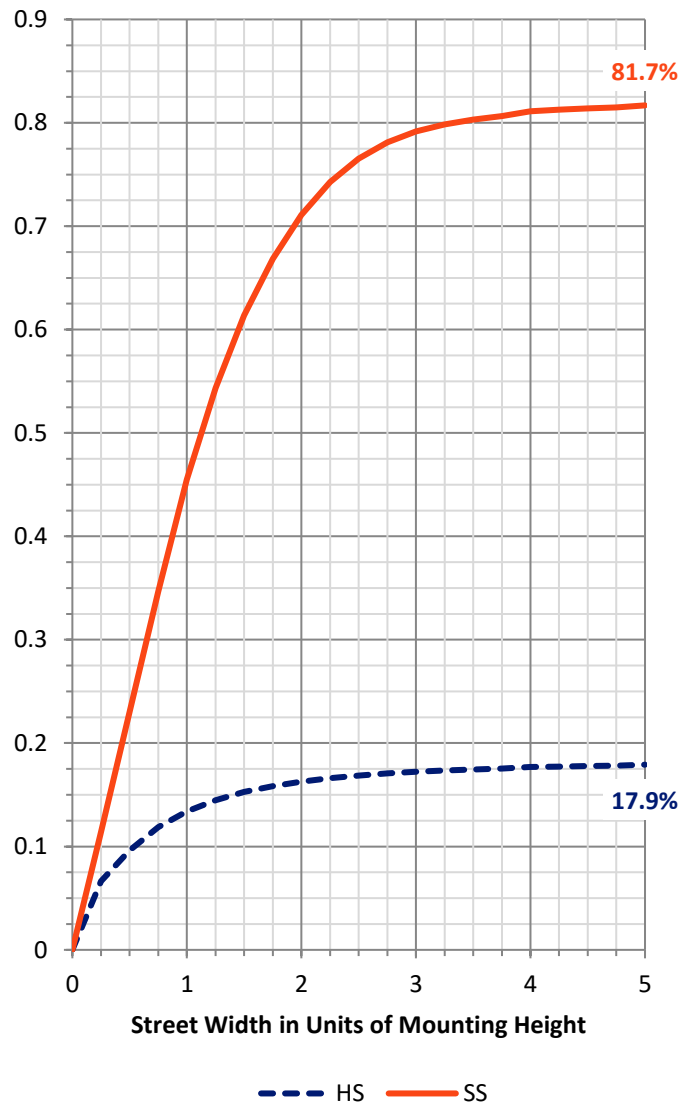
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6647.0	0.0	6647.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30169.6	0.0	30169.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	36816.7	0.0	36816.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.4	1.6
10°-20°	1545.7	4.2
20°-30°	2573.6	7.0
30°-40°	3805.5	10.3
40°-50°	5360.2	14.6
50°-60°	7177.5	19.5
60°-70°	9046.7	24.6
70°-80°	6178.9	16.8
80°-90°	543.4	1.5
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°	36816.7	100.0
0°-180°	36816.7	100.0

Coefficient of Utilization

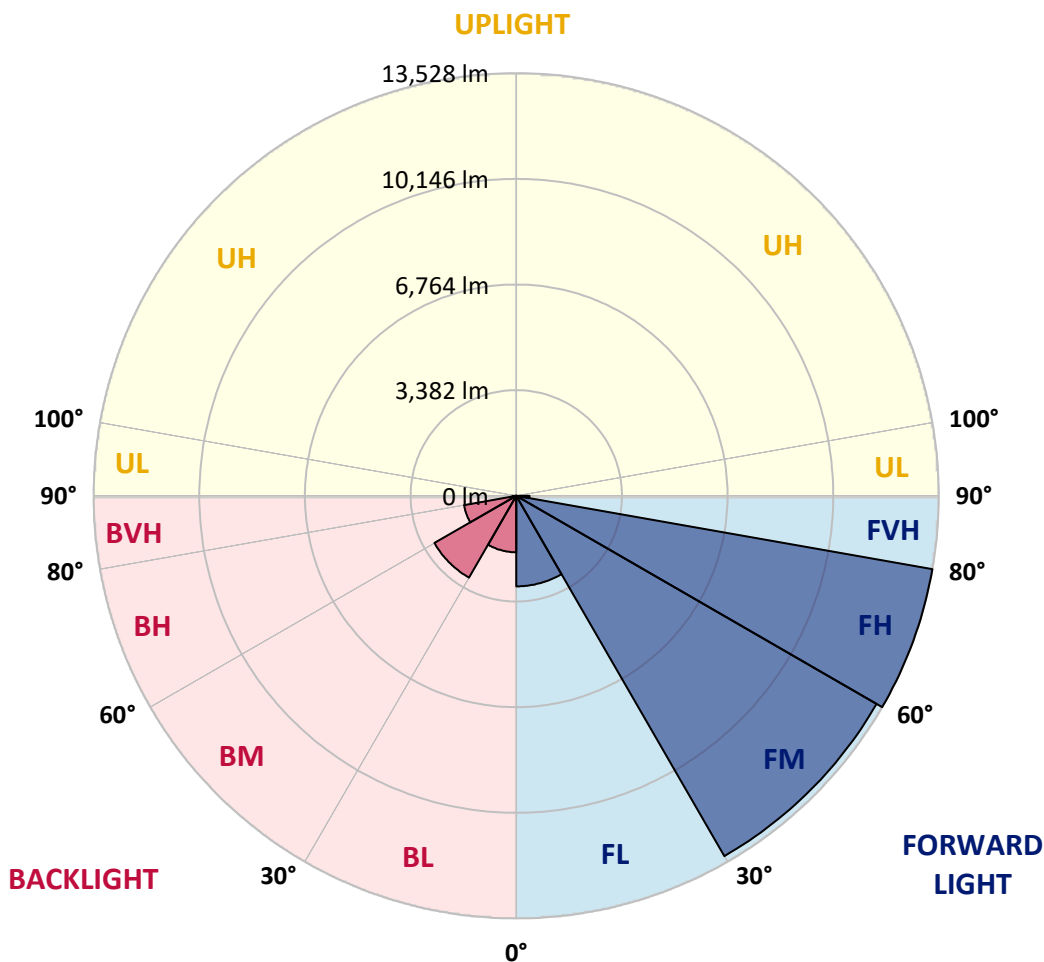


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2898.1	7.9			
FM (30°-60°)	13318.9	36.2			
FH (60°-80°)	13527.9	36.7			G5
FVH (80°-90°)	424.7	1.2			G3/500
BL (0°-30°)	1806.5	4.9	B3/2500		
BM (30°-60°)	3024.2	8.2	B3/5000		
BH (60°-80°)	1697.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7
2.5°	6345.9	6375.7	6383.7	6403.6	6445.3	6479.2	6512.9	6509.0	6556.7	6576.6	6594.5
5°	6063.5	6071.5	6101.3	6141.1	6214.7	6308.1	6399.6	6401.6	6518.9	6612.4	6658.2
7.5°	5856.7	5882.5	5902.4	5944.2	6021.7	6123.1	6268.3	6280.3	6489.1	6674.1	6771.5
10°	5721.5	5751.3	5773.1	5824.9	5902.4	6015.8	6172.9	6194.8	6467.2	6771.5	6942.5
12.5°	5598.1	5628.0	5647.9	5715.5	5816.9	5956.1	6133.1	6159.0	6475.2	6884.8	7129.4
15°	5673.7	5697.6	5689.7	5709.6	5777.1	5936.2	6149.1	6174.9	6505.0	6994.2	7314.4
17.5°	6009.8	6029.7	5964.1	5888.5	5856.7	5974.1	6198.8	6226.6	6564.7	7107.6	7503.3
20°	6505.0	6558.7	6415.5	6246.5	6093.3	6109.3	6302.1	6332.0	6648.2	7220.9	7696.2
22.5°	7149.3	7189.1	7014.1	6735.7	6453.3	6308.1	6457.2	6475.2	6773.5	7368.1	7907.0
25°	7907.0	7930.9	7688.3	7330.3	6922.7	6648.2	6670.1	6701.9	6980.3	7535.1	8093.9
27.5°	8642.8	8718.4	8438.0	8000.5	7463.6	7006.1	6962.4	6982.2	7205.0	7628.6	8223.2
30°	9515.9	9509.9	9213.6	8706.5	8018.4	7395.9	7238.8	7234.8	7326.3	7674.3	8316.7
32.5°	10211.9	10293.5	10003.1	9450.3	8652.8	7799.6	7429.7	7421.8	7419.8	7753.9	8455.9
35°	11003.4	11015.3	10748.9	10192.0	9338.8	8306.8	7696.2	7656.5	7610.7	7924.9	8644.8
37.5°	11711.4	11767.1	11522.5	10898.0	10013.1	8833.7	8062.2	8036.3	7897.1	8221.3	8947.1
40°	12264.2	12306.0	12158.8	11564.2	10677.3	9402.5	8527.5	8479.7	8310.8	8706.5	9350.8
42.5°	12445.2	12530.7	12588.4	12296.1	11441.0	10076.7	9100.3	9040.6	8911.3	9442.3	9816.2
45°	12459.1	12594.4	12898.6	12912.5	12208.5	10884.1	9768.5	9726.7	9716.7	10384.9	10470.4
47.5°	12353.7	12491.0	13002.0	13278.5	12892.6	11699.4	10733.0	10667.4	10673.3	11550.3	11204.3
50°	12099.2	12262.2	12882.7	13513.2	13427.6	12546.6	11751.2	11729.3	11852.6	12880.7	11966.0
52.5°	11619.9	11816.8	12759.5	13660.3	13825.4	13276.5	12908.5	12846.9	13159.2	14324.5	12799.2
55°	10293.5	10589.8	12308.0	13741.8	14203.2	13974.5	13950.6	14062.1	14475.6	15899.6	13716.0
57.5°	9601.4	9824.1	11327.6	13755.7	14680.5	14785.9	15167.7	15195.6	15919.5	17572.1	14752.1
60°	9223.5	9420.4	10790.6	13664.3	15346.7	15790.2	16412.6	16512.1	17329.4	19383.7	15826.0
62.5°	8893.4	9062.4	10468.5	13348.1	16098.4	17279.7	18025.4	18073.2	18930.4	21384.4	16885.9
65°	8115.9	8308.7	9820.2	13031.9	16746.7	19141.1	20165.3	20109.6	20634.6	23110.6	17550.2
67.5°	7067.8	7312.4	8609.0	11940.0	17066.9	21175.5	22575.6	22506.0	22317.1	24242.1	17741.1
70°	5729.4	5860.7	7059.8	10052.8	15788.2	22243.5	24478.8	24405.2	23359.2	24391.2	16838.3
71°	4929.9	5134.8	6147.0	8929.2	14724.2	21917.3	24723.4	24703.5	23361.1	23979.6	16158.1
72.5°	3848.1	3973.4	4868.3	6918.7	12514.8	20063.9	24118.8	24194.4	22854.0	22836.1	14756.1
75°	2434.2	2489.9	3054.6	4072.9	6866.9	14209.2	20588.9	20793.7	20292.5	18691.7	10973.6
77.5°	1413.9	1485.6	1829.6	2400.4	2967.1	7712.2	14732.2	14954.9	14099.8	10291.4	4492.5
80°	823.3	902.9	1205.1	1394.1	1362.3	2861.7	7501.3	7881.2	6105.3	2599.2	1260.9
82.5°	457.4	511.1	847.2	849.2	725.8	934.7	2360.6	2470.0	1742.1	1048.0	515.1
85°	332.1	375.8	546.9	495.2	348.0	401.7	821.4	861.1	704.0	441.5	167.0
87.5°	117.4	167.0	300.3	238.7	95.4	83.5	236.6	192.9	179.0	123.3	37.8
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°	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7	6568.7
2.5°	6604.4	6608.4	6588.6	6552.7	6516.9	6471.2	6419.5	6379.7	6361.8	6359.8	6357.8
5°	6676.0	6686.0	6610.4	6499.1	6375.7	6224.6	6095.3	5948.1	5910.4	5850.7	5868.6
7.5°	6791.4	6785.4	6636.2	6399.6	6111.2	5791.1	5520.6	5363.5	5200.5	5154.6	5156.7
10°	6956.4	6918.7	6636.2	6196.7	5715.5	5240.2	4862.4	4623.7	4494.4	4387.1	4347.3
12.5°	7131.4	7036.0	6572.6	5912.4	5206.4	4623.7	4218.0	3895.8	3812.3	3724.8	3726.8
15°	7298.5	7139.4	6447.3	5512.6	4657.5	3965.4	3571.7	3378.8	3353.0	3362.9	3360.9
17.5°	7449.6	7213.0	6256.4	5067.2	4017.2	3400.6	3191.8	3205.8	3275.4	3325.1	3331.0
20°	7602.8	7256.7	5972.0	4470.5	3412.6	3058.6	3066.5	3175.9	3281.3	3349.0	3358.9
22.5°	7747.9	7276.6	5637.9	3893.9	2975.1	2913.5	3030.8	3148.1	3251.5	3317.1	3327.0
25°	7843.4	7230.8	5164.6	3291.3	2760.3	2861.7	2985.0	3084.5	3171.9	3239.6	3255.5
27.5°	7869.2	7083.7	4578.0	2804.1	2660.9	2812.0	2925.4	2999.0	3066.5	3130.2	3142.1
30°	7855.3	6866.9	3933.6	2517.7	2603.2	2754.4	2841.8	2895.5	2977.0	3026.8	3036.7
32.5°	7833.4	6614.4	3261.4	2364.6	2555.5	2700.6	2752.3	2800.1	2798.1	2778.2	2792.1
35°	7841.4	6312.1	2716.5	2273.0	2513.7	2660.9	2704.6	2645.0	2474.0	2466.0	2458.0
37.5°	7883.2	6013.8	2320.8	2209.5	2491.8	2654.9	2678.8	2404.4	2253.2	2183.6	2165.7
40°	7990.5	5665.8	2060.3	2161.7	2489.9	2700.6	2561.4	2283.0	1992.7	1857.4	1847.5
42.5°	8133.7	5323.7	1901.2	2131.9	2513.7	2770.3	2513.7	2112.0	1795.8	1716.3	1704.3
45°	8346.5	4932.0	1813.7	2117.9	2549.5	2796.1	2497.8	1986.7	1716.3	1652.6	1652.6
47.5°	8587.2	4558.1	1766.0	2108.0	2595.3	2778.2	2356.6	1946.9	1678.4	1686.4	1724.2
50°	8825.8	4233.9	1730.2	2086.1	2635.0	2768.2	2298.9	1945.0	1688.4	1789.8	1857.4
52.5°	9102.2	4005.2	1686.4	2050.4	2635.0	2704.6	2281.0	1984.7	1716.3	1746.1	1775.9
55°	9436.3	3933.6	1630.8	1972.8	2587.3	2545.5	2271.1	2042.4	1736.1	1666.5	1678.4
57.5°	9877.8	4049.0	1577.0	1875.4	2477.9	2380.5	2267.1	2058.3	1690.4	1632.7	1620.8
60°	10390.9	4277.7	1561.1	1775.9	2328.7	2239.3	2243.2	2012.5	1626.8	1567.1	1577.0
62.5°	10750.8	4414.9	1551.2	1700.4	2165.7	2084.1	2185.6	1956.9	1598.9	1547.2	1557.2
65°	10750.8	4247.9	1459.7	1584.9	1954.9	1897.2	2116.0	1887.3	1563.1	1503.4	1493.5
67.5°	10343.2	3760.6	1320.5	1412.0	1722.2	1684.4	2018.5	1803.7	1509.4	1463.7	1439.8
70°	9281.2	2851.8	1145.5	1209.1	1427.9	1461.7	1893.2	1690.4	1419.9	1364.2	1328.4
71°	8813.8	2483.8	1071.9	1105.7	1314.5	1364.2	1833.6	1642.7	1380.1	1300.6	1237.0
72.5°	7913.0	2092.1	960.5	974.4	1123.6	1213.1	1708.3	1551.2	1304.6	1191.3	1119.6
75°	6011.8	1527.3	773.6	765.6	831.2	962.5	1445.8	1382.2	1143.5	990.3	948.6
77.5°	2597.2	831.2	578.7	584.7	564.8	729.8	1137.5	1187.3	980.4	805.4	767.7
80°	787.5	479.3	395.7	403.7	377.9	489.2	801.5	930.7	787.5	626.4	574.7
82.5°	403.7	286.3	270.4	266.5	240.6	276.4	485.2	636.3	562.8	391.7	346.0
85°	175.0	153.2	133.3	129.3	113.4	99.4	173.0	318.2	298.3	218.8	208.8
87.5°	43.8	39.8	25.8	23.9	13.9	2.0	0.0	0.0	0.0	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)