

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: P647960

Luminaire Tested: **GALN-SA5A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15653.7 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

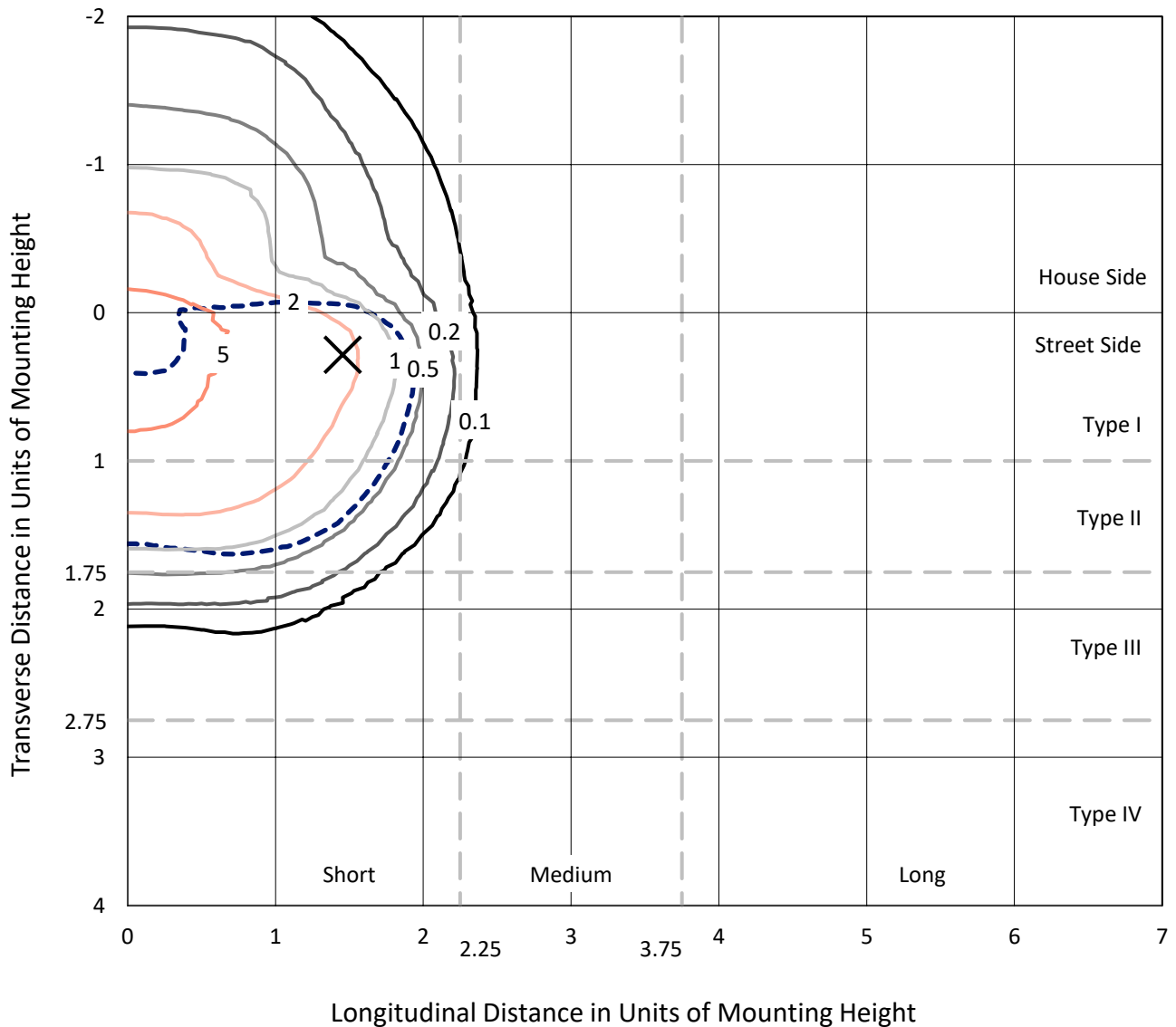
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647960
 CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

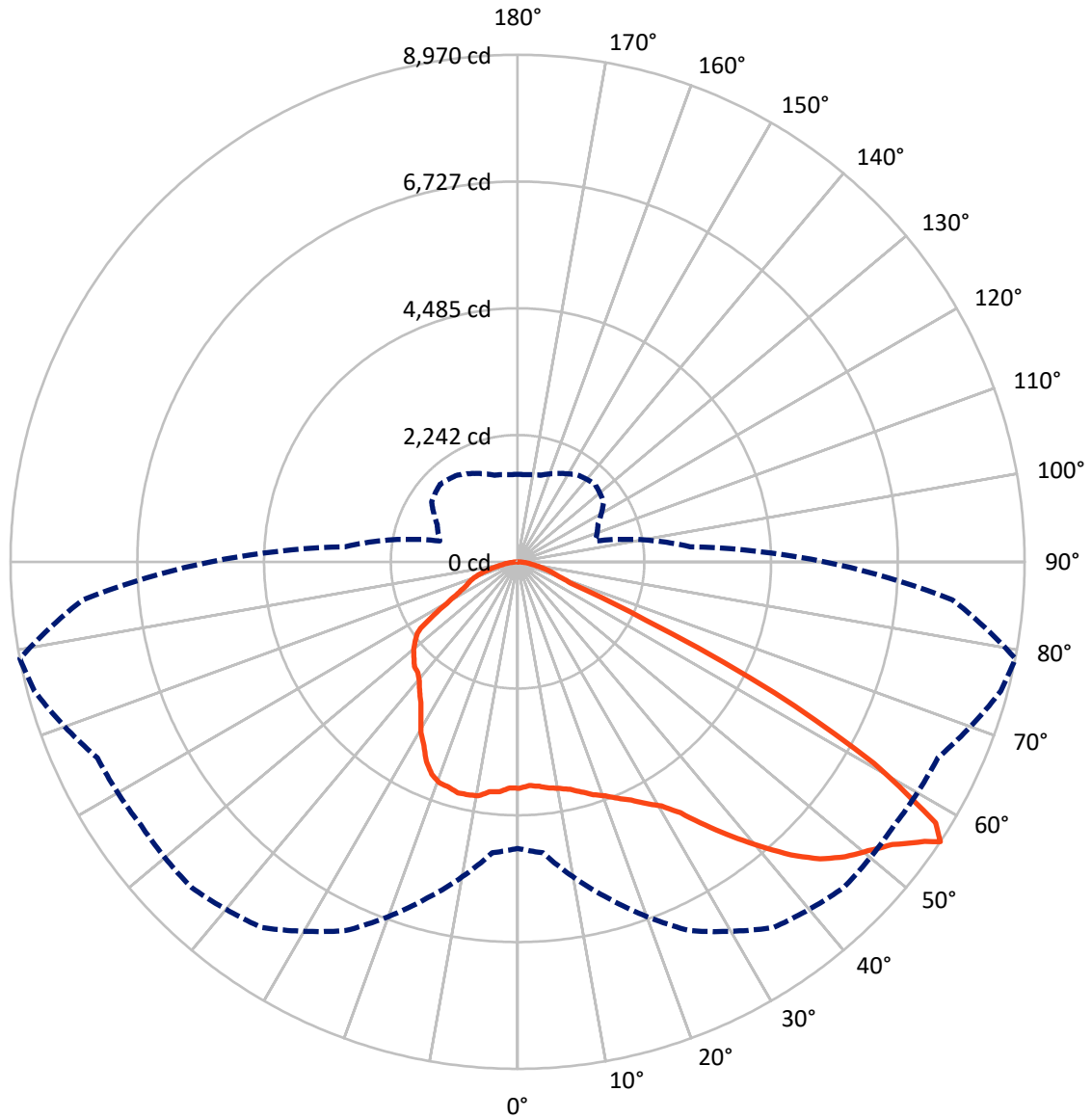
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P647960
CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647960
 CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

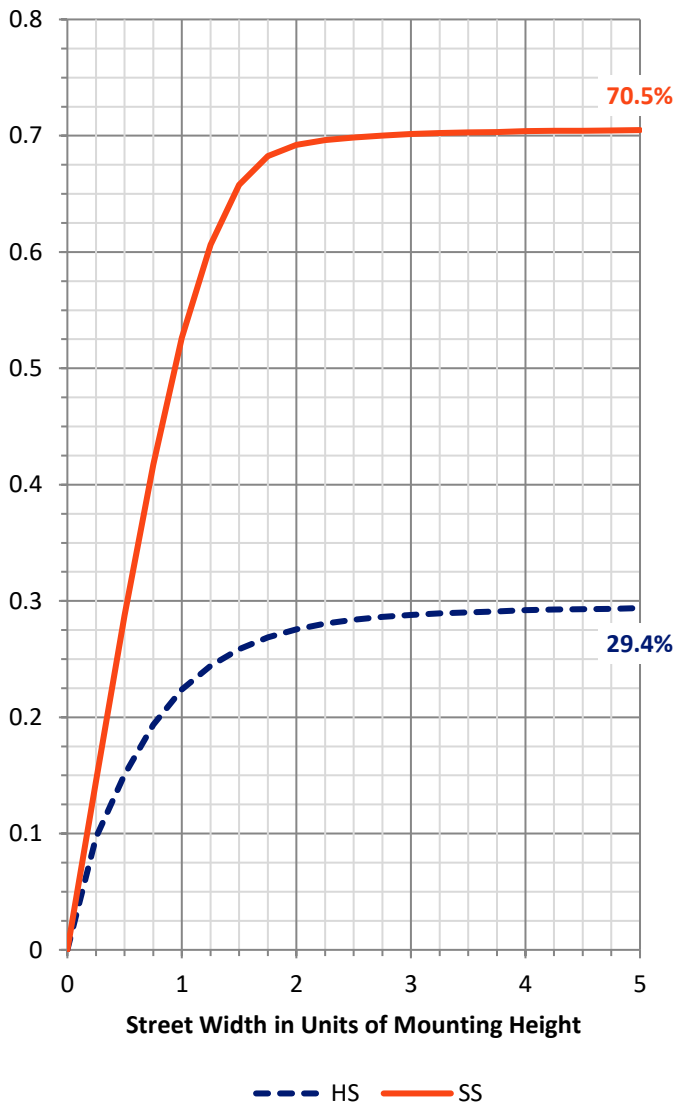
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4622.9	0.0	4622.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11030.8	0.0	11030.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	15653.7	0.0	15653.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	2.3
10°-20°	996.6	6.4
20°-30°	1704.9	10.9
30°-40°	2613.0	16.7
40°-50°	3531.5	22.6
50°-60°	4056.0	25.9
60°-70°	1848.9	11.8
70°-80°	455.8	2.9
80°-90°	82.8	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°	15653.7	100.0
0°-180°	15653.7	100.0

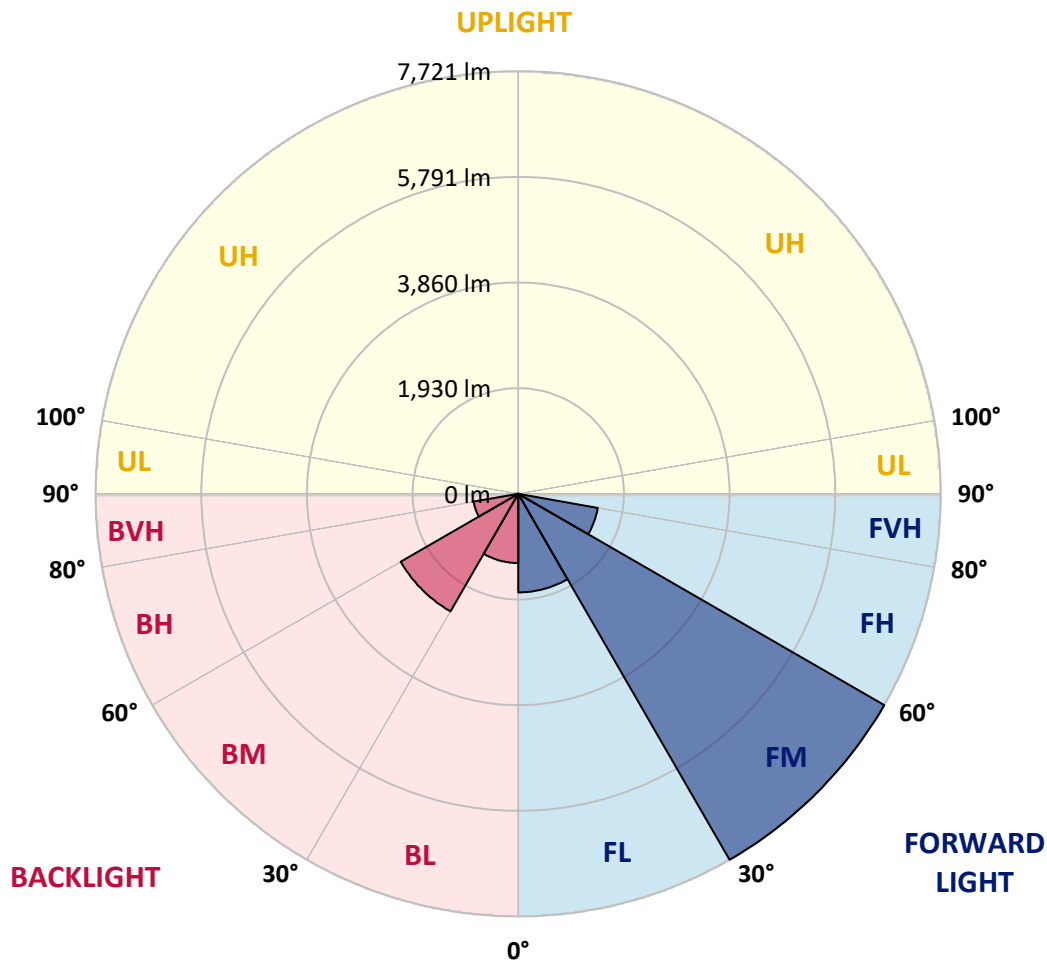


REPORT NUMBER: P647960
 CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.1	11.5			
FM (30°-60°)	7720.9	49.3			
FH (60°-80°)	1475.8	9.4			G1/1800
FVH (80°-90°)	33.1	0.2			G1/100
BL (0°-30°)	1264.6	8.1	B3/2500		
BM (30°-60°)	2479.7	15.8	B2/2500		
BH (60°-80°)	828.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	49.8	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





REPORT NUMBER: P647960

CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	3810.2	3800.4	3823.9	3841.4	3862.9	3890.1	3903.8	3911.6	3979.8	3962.3	4014.9
5°	3728.3	3703.0	3720.5	3734.1	3771.2	3804.4	3841.4	3899.9	3962.3	3989.5	4053.9
7.5°	3656.1	3642.5	3638.6	3648.3	3699.0	3742.0	3806.2	3892.1	3993.5	4038.3	4075.4
10°	3537.2	3517.7	3546.9	3611.3	3624.9	3714.6	3788.7	3911.6	3999.3	4077.3	4186.5
12.5°	3484.5	3465.0	3470.9	3507.9	3603.5	3689.3	3777.0	3915.5	4100.7	4131.9	4278.2
15°	3568.4	3548.9	3554.7	3545.0	3636.6	3681.5	3819.9	3993.5	4170.9	4223.6	4379.6
17.5°	3759.5	3761.5	3736.1	3714.6	3693.2	3788.7	3884.3	4040.3	4198.2	4330.8	4447.8
20°	4124.1	4059.8	4009.0	3888.1	3855.0	3896.0	4016.9	4167.0	4309.4	4418.5	4551.2
22.5°	4404.9	4410.8	4338.6	4139.7	4067.6	4085.1	4188.5	4311.3	4467.3	4545.3	4697.4
25°	4812.5	4771.5	4693.5	4535.5	4373.7	4387.4	4463.4	4574.5	4617.4	4672.1	4837.8
27.5°	5184.9	5196.6	5042.5	4894.4	4693.5	4654.5	4791.0	4810.5	4738.3	4841.7	4898.2
30°	5563.1	5553.4	5452.0	5278.5	5081.5	5089.3	5149.8	5054.3	4954.8	5011.4	5050.4
32.5°	5955.1	5844.0	5840.1	5684.0	5533.9	5461.7	5387.7	5434.5	5280.4	5292.1	5255.1
35°	6269.0	6284.7	6194.9	6083.8	6009.7	5883.0	5680.2	5764.0	5734.8	5721.1	5561.3
37.5°	6497.2	6436.7	6481.6	6444.6	6374.3	6216.4	6005.8	6085.8	6099.4	6165.7	5980.5
40°	6684.4	6659.0	6778.0	6797.5	6748.8	6407.5	6029.2	6267.1	6471.8	6616.1	6395.8
42.5°	6774.0	6828.7	6953.5	7103.6	6994.5	6629.8	6150.1	6405.6	6861.8	7090.0	6789.7
45°	6894.9	6824.8	7010.0	7285.0	7286.9	6817.0	6267.1	6592.7	7166.0	7497.5	7058.7
47.5°	6772.2	6807.2	6998.3	7347.4	7437.1	7014.0	6583.0	6857.9	7501.4	7795.9	7308.4
50°	6497.2	6567.4	6916.4	7279.1	7550.2	7222.5	6945.7	7144.6	7811.4	8035.7	7349.3
52.5°	6210.5	6249.5	6795.5	7331.8	7600.9	7491.7	7431.2	7540.4	8189.7	8306.8	7400.0
55°	5430.6	5615.8	6395.8	7308.4	7848.5	7977.2	7930.4	8090.3	8618.7	8735.7	7676.9
56°	5069.8	5167.3	6155.9	7199.1	7897.3	8154.6	8131.2	8203.4	8846.9	8969.7	7719.8
57.5°	4403.0	4410.8	5249.2	6715.6	7714.0	8207.2	8183.9	8240.4	8802.0	8718.2	7343.4
60°	2755.3	2876.2	3572.3	5165.4	6559.6	7614.5	7747.1	7292.8	7421.4	7244.0	5713.3
62.5°	1427.3	1409.8	1871.9	3020.4	4354.2	5452.0	5574.9	5553.4	5354.5	5095.2	3732.2
65°	711.7	715.7	978.9	1495.6	2230.8	2854.7	3197.9	3235.0	2706.5	2490.1	1770.5
67.5°	516.7	536.2	703.9	914.5	1051.0	1175.8	1441.0	1413.7	1070.5	1017.9	943.7
70°	401.7	419.2	571.4	698.0	633.8	633.8	690.3	713.7	762.4	783.9	809.2
72.5°	292.5	306.2	436.8	481.6	415.3	446.5	516.7	571.4	622.0	629.8	659.1
75°	200.8	212.5	286.7	265.2	249.6	308.1	378.3	429.0	466.0	485.5	503.1
77.5°	130.7	134.5	163.8	138.4	159.9	198.9	245.7	288.6	325.6	341.2	345.1
80°	58.5	64.4	70.2	87.8	111.1	142.3	175.5	210.6	234.0	239.8	251.6
82.5°	33.1	33.1	42.9	62.4	81.9	103.4	126.8	152.1	179.4	185.3	183.3
85°	17.5	17.5	25.4	37.0	50.7	60.4	58.5	60.4	64.4	74.1	72.1
87.5°	5.9	5.9	7.8	7.8	9.8	11.7	9.8	13.6	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647960

CATALOG NUMBER: GALN-SA5A-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2	4005.2
2.5°	3999.3	4016.9	3993.5	4044.2	4044.2	4034.4	3985.7	4001.3	4013.0	4013.0	4022.7
5°	4075.4	4069.5	4085.1	4024.7	3987.6	3974.0	3894.0	3855.0	3821.9	3819.9	3790.7
7.5°	4118.3	4102.7	4096.8	4051.9	3888.1	3788.7	3617.1	3517.7	3496.3	3420.2	3449.4
10°	4186.5	4215.8	4186.5	3942.8	3714.6	3486.5	3318.8	3164.7	3104.3	3055.6	3026.3
12.5°	4326.9	4313.2	4143.6	3814.1	3494.3	3223.2	2973.7	2811.8	2751.4	2708.5	2704.6
15°	4445.9	4377.6	4118.3	3611.3	3151.1	2862.5	2657.7	2542.7	2515.4	2519.3	2536.8
17.5°	4486.8	4440.0	3985.7	3400.7	2895.7	2556.3	2460.8	2443.3	2468.6	2497.8	2505.7
20°	4551.2	4477.0	3931.1	3114.1	2579.8	2365.3	2359.4	2421.8	2468.6	2511.6	2517.3
22.5°	4685.7	4498.5	3753.6	2843.0	2363.3	2308.8	2365.3	2417.9	2490.1	2525.2	2493.9
25°	4724.7	4451.7	3504.0	2517.3	2226.9	2273.6	2334.0	2406.2	2456.9	2476.4	2490.1
27.5°	4757.8	4379.6	3166.7	2300.9	2183.9	2271.6	2334.0	2394.5	2421.8	2439.4	2454.9
30°	4851.5	4358.1	2874.2	2156.6	2156.6	2232.6	2312.6	2328.3	2365.3	2386.7	2414.0
32.5°	4898.2	4209.9	2574.0	2065.0	2129.4	2252.1	2258.0	2287.3	2289.3	2306.8	2277.5
35°	5021.1	4104.6	2295.1	1998.7	2141.0	2232.6	2261.9	2244.4	2148.9	2102.0	2111.8
37.5°	5110.8	4051.9	2094.2	1990.9	2143.0	2254.1	2269.8	2137.1	2037.7	1959.7	1979.2
40°	5352.6	3921.3	1942.2	1977.2	2160.5	2277.5	2234.6	2090.3	1910.9	1831.0	1817.3
42.5°	5537.8	3827.7	1846.6	1961.6	2174.2	2310.7	2217.1	1996.7	1813.4	1739.4	1758.9
45°	5752.3	3806.2	1795.9	1965.6	2197.6	2328.3	2195.6	1924.6	1729.6	1700.4	1694.5
47.5°	5828.3	3652.2	1741.3	1932.4	2191.7	2322.4	2123.5	1870.0	1698.4	1702.3	1717.9
50°	5701.6	3494.3	1700.4	1864.2	2152.7	2269.8	2010.4	1797.8	1680.9	1729.6	1756.9
52.5°	5539.8	3332.4	1616.5	1772.5	2072.8	2187.9	1957.7	1793.9	1663.3	1647.7	1653.5
55°	5588.5	3199.9	1499.5	1647.7	1944.1	2035.7	1899.2	1756.9	1620.4	1561.9	1581.4
56°	5430.6	3063.3	1423.4	1569.7	1856.3	1938.2	1870.0	1723.8	1585.3	1546.3	1546.3
57.5°	4984.0	2605.1	1324.0	1444.9	1671.1	1768.6	1813.4	1704.3	1546.3	1478.1	1480.0
60°	3675.6	1852.4	1187.5	1273.3	1384.4	1462.5	1671.1	1649.6	1448.8	1402.0	1384.4
62.5°	2265.8	1353.3	1090.0	1123.1	1179.7	1244.0	1458.6	1493.7	1345.4	1294.8	1283.0
65°	1269.4	1035.4	1015.9	1029.6	1056.9	1090.0	1210.9	1288.9	1187.5	1109.5	1105.6
67.5°	928.2	926.2	941.8	953.5	965.2	965.2	994.5	1025.7	1012.0	949.6	943.7
70°	824.8	830.7	842.4	844.3	848.2	834.6	811.2	801.4	817.1	778.0	770.2
72.5°	680.5	700.0	713.7	715.7	694.2	676.6	645.4	612.3	600.6	592.8	590.9
75°	522.6	536.2	542.1	540.1	532.4	507.0	470.0	436.8	415.3	392.0	403.6
77.5°	353.0	372.5	382.2	382.2	370.5	331.5	313.9	288.6	267.2	241.8	245.7
80°	247.7	261.3	276.9	274.9	255.4	235.9	210.6	187.2	169.7	150.2	148.2
82.5°	185.3	193.0	200.8	196.9	183.3	163.8	146.3	124.8	105.3	91.6	91.6
85°	66.3	72.1	87.8	91.6	99.4	99.4	83.9	70.2	56.5	46.8	46.8
87.5°	19.5	19.5	21.5	21.5	19.5	21.5	17.5	19.5	21.5	13.6	13.6
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)