

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: P647520

Luminaire Tested: **GALN-SA6D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647520
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-SA6D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 31355.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

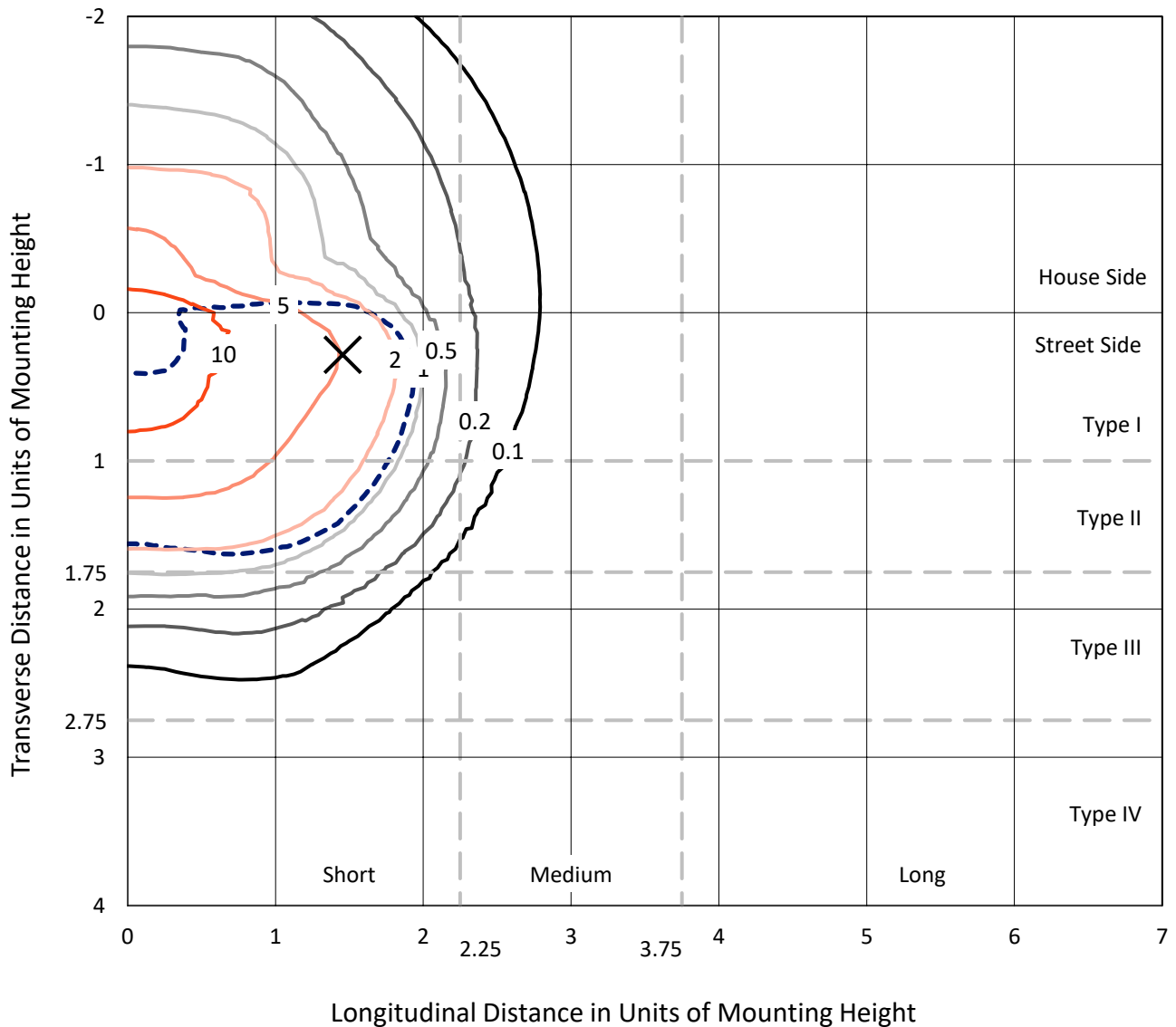
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

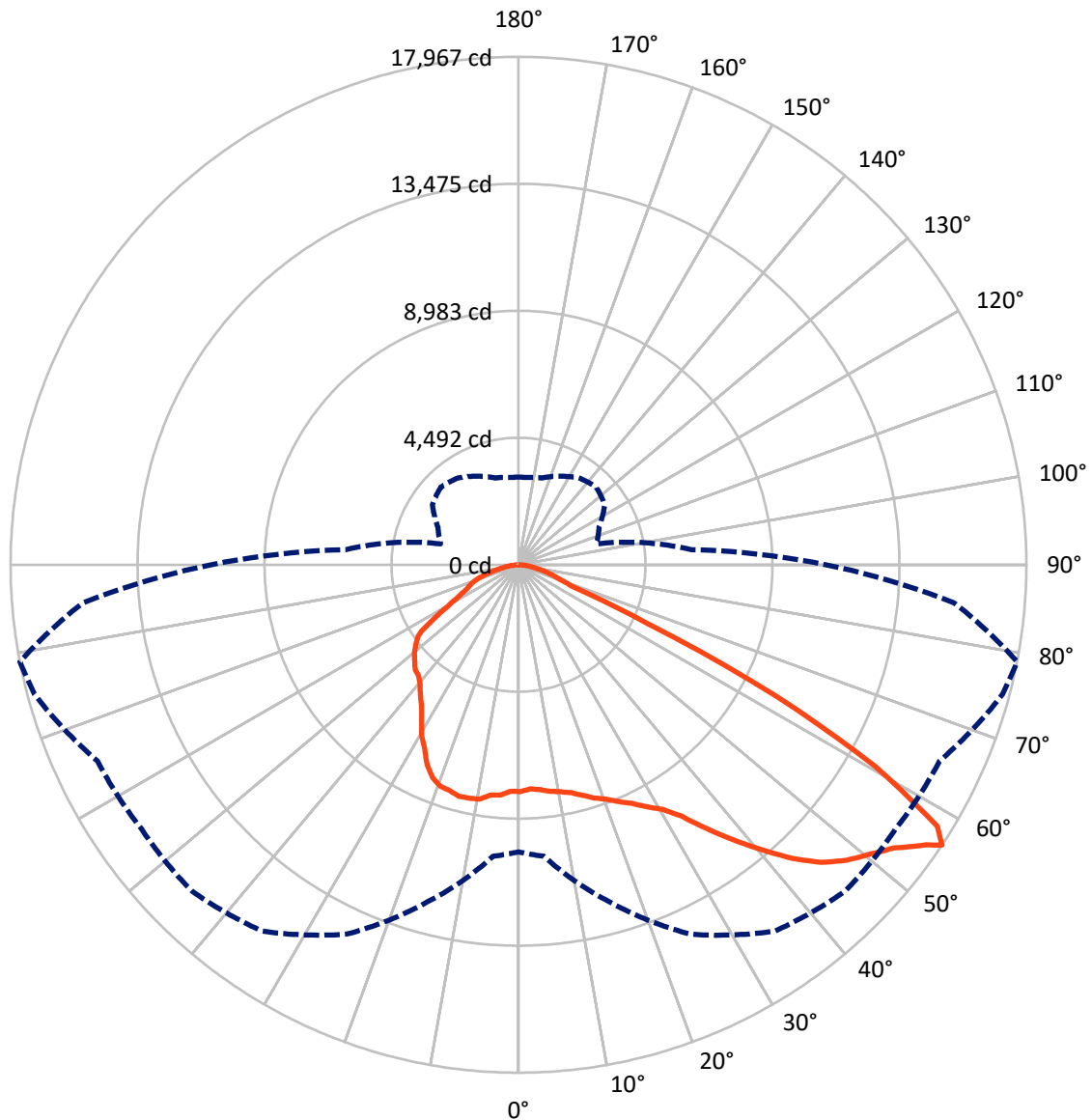
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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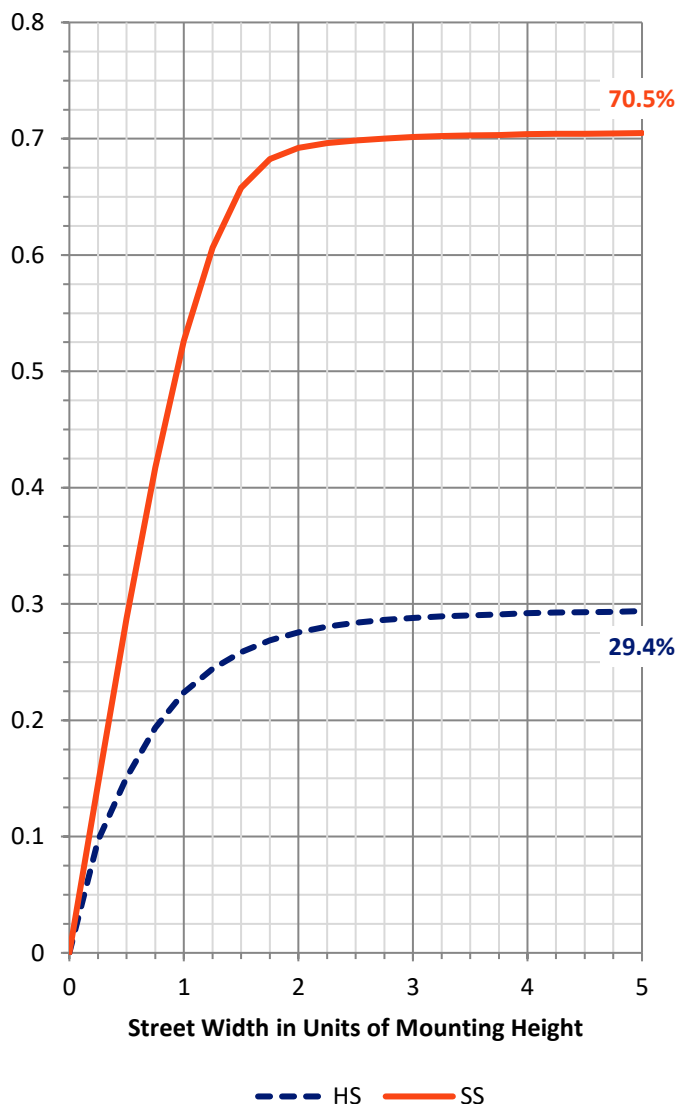
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9259.9	0.0	9259.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22095.3	0.0	22095.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	31355.2	0.0	31355.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.4	2.3
10°-20°	1996.2	6.4
20°-30°	3415.1	10.9
30°-40°	5234.0	16.7
40°-50°	7073.7	22.6
50°-60°	8124.4	25.9
60°-70°	3703.4	11.8
70°-80°	913.0	2.9
80°-90°	165.9	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°	31355.2	100.0
0°-180°	31355.2	100.0

Coefficient of Utilization

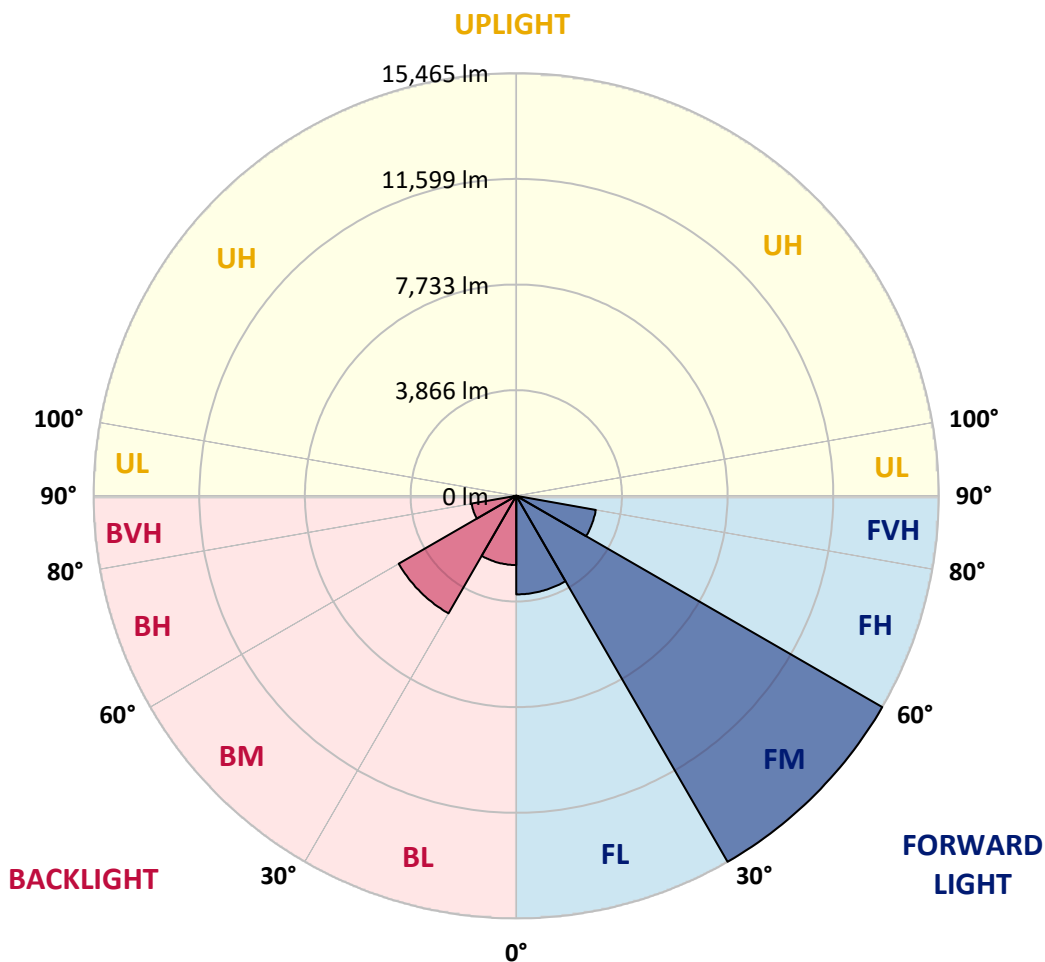


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3607.7	11.5			
FM (30°-60°)	15465.3	49.3			
FH (60°-80°)	2956.1	9.4			G2/5000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	2533.0	8.1	B4/5000		
BM (30°-60°)	4966.9	15.8	B3/5000		
BH (60°-80°)	1660.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	99.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5
2.5°	7632.0	7612.5	7659.3	7694.5	7737.4	7792.1	7819.4	7835.1	7971.8	7936.6	8042.1
5°	7467.9	7417.1	7452.3	7479.7	7553.8	7620.2	7694.5	7811.7	7936.6	7991.3	8120.2
7.5°	7323.4	7296.1	7288.2	7307.8	7409.4	7495.3	7624.1	7796.0	7999.1	8088.9	8163.2
10°	7085.1	7046.1	7104.7	7233.6	7260.9	7440.6	7589.0	7835.1	8010.9	8167.1	8385.8
12.5°	6979.7	6940.7	6952.3	7026.6	7217.9	7389.8	7565.6	7842.9	8214.0	8276.5	8569.4
15°	7147.7	7108.6	7120.3	7100.8	7284.3	7374.2	7651.5	7999.1	8354.5	8460.0	8772.5
17.5°	7530.4	7534.3	7483.5	7440.6	7397.6	7589.0	7780.4	8092.9	8409.3	8674.9	8909.2
20°	8260.8	8131.9	8030.4	7788.2	7721.8	7803.8	8046.0	8346.8	8631.9	8850.6	9116.2
22.5°	8823.2	8835.0	8690.4	8292.0	8147.6	8182.7	8389.7	8635.8	8948.3	9104.5	9409.2
25°	9639.6	9557.5	9401.3	9084.9	8760.8	8788.1	8940.5	9163.1	9249.0	9358.3	9690.3
27.5°	10385.6	10409.0	10100.5	9803.6	9401.3	9323.2	9596.6	9635.7	9491.1	9698.2	9811.5
30°	11143.3	11123.8	10920.7	10573.1	10178.6	10194.2	10315.3	10123.9	9924.7	10038.0	10116.0
32.5°	11928.4	11705.8	11697.9	11385.4	11084.7	10940.2	10791.8	10885.5	10577.0	10600.4	10526.2
35°	12557.2	12588.4	12408.8	12186.1	12037.8	11783.8	11377.7	11545.6	11487.0	11459.7	11139.4
37.5°	13014.2	12893.1	12982.9	12908.8	12768.1	12451.7	12029.9	12190.1	12217.4	12350.2	11979.2
40°	13389.1	13338.4	13576.7	13615.7	13518.0	12834.5	12076.8	12553.3	12963.4	13252.4	12811.1
42.5°	13568.8	13678.2	13928.2	14228.9	14010.2	13279.8	12318.9	12830.6	13744.6	14201.6	13600.1
45°	13811.0	13670.4	14041.5	14592.1	14596.1	13654.7	12553.3	13205.6	14353.9	15017.9	14139.1
47.5°	13564.9	13635.2	14018.0	14717.1	14896.8	14049.2	13186.0	13736.8	15025.7	15615.4	14639.0
50°	13014.2	13154.8	13853.9	14580.5	15123.3	14467.2	13912.6	14311.0	15646.8	16095.9	14721.0
52.5°	12440.1	12518.1	13611.8	14685.9	15224.9	15006.2	14885.1	15103.8	16404.5	16638.8	14822.6
55°	10877.7	11248.8	12811.1	14639.0	15720.9	15978.8	15885.0	16205.3	17263.7	17498.1	15377.3
56°	10155.1	10350.4	12330.7	14420.3	15818.6	16334.2	16287.3	16431.8	17720.7	17966.8	15463.2
57.5°	8819.3	8835.0	10514.5	13451.6	15451.4	16439.6	16392.7	16506.0	17630.9	17462.9	14709.4
60°	5518.9	5761.1	7155.4	10346.6	13139.2	15252.2	15517.8	14607.8	14865.6	14510.2	11444.1
62.5°	2859.0	2823.9	3749.6	6050.1	8721.7	10920.7	11166.8	11123.8	10725.4	10205.9	7475.8
65°	1425.6	1433.4	1960.7	2995.8	4468.3	5718.1	6405.6	6479.8	5421.3	4987.7	3546.5
67.5°	1035.0	1074.1	1410.0	1831.8	2105.3	2355.2	2886.4	2831.7	2144.3	2038.9	1890.4
70°	804.6	839.8	1144.4	1398.3	1269.4	1269.4	1382.7	1429.5	1527.2	1570.1	1620.9
72.5°	585.8	613.2	874.9	964.7	831.9	894.4	1035.0	1144.4	1246.0	1261.6	1320.1
75°	402.3	425.7	574.2	531.2	499.9	617.1	757.7	859.3	933.5	972.6	1007.7
77.5°	261.7	269.5	328.1	277.3	320.2	398.4	492.1	578.1	652.2	683.5	691.3
80°	117.1	128.9	140.6	175.8	222.6	285.1	351.5	421.8	468.7	480.4	503.9
82.5°	66.4	66.4	85.9	125.0	164.0	207.0	253.8	304.7	359.3	371.1	367.1
85°	35.2	35.2	50.7	74.2	101.6	121.1	117.1	121.1	128.9	148.5	144.5
87.5°	11.7	11.7	15.7	15.7	19.5	23.4	19.5	27.3	35.2	35.2	35.2
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°	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5	8022.5
2.5°	8010.9	8046.0	7999.1	8100.7	8100.7	8081.2	7983.5	8014.8	8038.2	8038.2	8057.7
5°	8163.2	8151.4	8182.7	8061.6	7987.4	7960.1	7799.9	7721.8	7655.4	7651.5	7592.9
7.5°	8249.1	8217.8	8206.2	8116.3	7788.2	7589.0	7245.3	7046.1	7003.2	6850.8	6909.4
10°	8385.8	8444.4	8385.8	7897.6	7440.6	6983.6	6647.7	6339.2	6218.0	6120.4	6061.8
12.5°	8667.0	8639.7	8299.9	7639.8	6999.2	6456.3	5956.4	5632.2	5511.1	5425.2	5417.3
15°	8905.3	8768.6	8249.1	7233.6	6311.8	5733.8	5323.6	5093.2	5038.5	5046.4	5081.5
17.5°	8987.3	8893.5	7983.5	6811.8	5800.2	5120.5	4929.1	4894.0	4944.8	5003.4	5019.0
20°	9116.2	8967.8	7874.2	6237.6	5167.4	4737.8	4726.0	4851.0	4944.8	5030.7	5042.4
22.5°	9385.7	9010.8	7518.7	5694.7	4733.9	4624.5	4737.8	4843.2	4987.7	5058.0	4995.5
25°	9463.8	8917.0	7018.7	5042.4	4460.4	4554.2	4675.3	4819.8	4921.3	4960.4	4987.7
27.5°	9530.2	8772.5	6343.1	4608.9	4374.5	4550.2	4675.3	4796.3	4851.0	4886.2	4917.4
30°	9717.7	8729.5	5757.2	4319.8	4319.8	4472.2	4632.3	4663.5	4737.8	4780.8	4835.4
32.5°	9811.5	8432.7	5155.7	4136.3	4265.2	4511.3	4522.9	4581.6	4585.4	4620.6	4562.0
35°	10057.5	8221.7	4597.1	4003.5	4288.6	4472.2	4530.8	4495.6	4304.2	4210.5	4230.0
37.5°	10237.2	8116.3	4194.8	3987.8	4292.5	4515.2	4546.4	4280.8	4081.6	3925.3	3964.4
40°	10721.5	7854.6	3890.2	3960.5	4327.6	4562.0	4476.1	4187.0	3827.7	3667.6	3640.2
42.5°	11092.5	7667.1	3698.8	3929.3	4355.0	4628.4	4440.9	3999.6	3632.4	3484.0	3523.0
45°	11522.2	7624.1	3597.3	3937.1	4401.9	4663.5	4398.0	3855.0	3464.5	3405.9	3394.1
47.5°	11674.5	7315.6	3487.9	3870.7	4390.1	4651.8	4253.4	3745.7	3402.0	3409.8	3441.1
50°	11420.6	6999.2	3405.9	3734.0	4312.1	4546.4	4026.9	3601.2	3366.8	3464.5	3519.1
52.5°	11096.4	6675.1	3237.9	3550.4	4151.9	4382.4	3921.4	3593.3	3331.7	3300.4	3312.2
55°	11194.1	6409.5	3003.6	3300.4	3894.1	4077.7	3804.3	3519.1	3245.8	3128.6	3167.6
56°	10877.7	6136.1	2851.2	3144.2	3718.3	3882.4	3745.7	3452.7	3175.5	3097.3	3097.3
57.5°	9983.2	5218.1	2652.0	2894.2	3347.3	3542.6	3632.4	3413.7	3097.3	2960.6	2964.5
60°	7362.5	3710.6	2378.7	2550.5	2773.2	2929.4	3347.3	3304.3	2902.0	2808.3	2773.2
62.5°	4538.6	2710.7	2183.3	2249.8	2363.0	2491.9	2921.5	2991.8	2695.0	2593.5	2570.0
65°	2542.7	2074.0	2034.9	2062.3	2116.9	2183.3	2425.5	2581.8	2378.7	2222.4	2214.6
67.5°	1859.2	1855.2	1886.5	1910.0	1933.4	1933.4	1992.0	2054.4	2027.1	1902.1	1890.4
70°	1652.1	1663.9	1687.3	1691.2	1699.0	1671.7	1624.8	1605.3	1636.5	1558.4	1542.8
72.5°	1363.1	1402.2	1429.5	1433.4	1390.5	1355.3	1292.8	1226.4	1203.0	1187.3	1183.4
75°	1046.8	1074.1	1085.8	1081.9	1066.3	1015.6	941.3	874.9	831.9	785.0	808.5
77.5°	707.0	746.0	765.5	765.5	742.1	664.0	628.8	578.1	535.1	484.3	492.1
80°	496.0	523.4	554.6	550.7	511.7	472.6	421.8	375.0	339.8	300.8	296.8
82.5°	371.1	386.6	402.3	394.5	367.1	328.1	292.9	250.0	210.9	183.5	183.5
85°	132.8	144.5	175.8	183.5	199.2	199.2	168.0	140.6	113.3	93.7	93.7
87.5°	39.1	39.1	43.0	43.0	39.1	43.0	35.2	39.1	43.0	27.3	27.3
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)