

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: P651312

Luminaire Tested: **GALN-SA3D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16558.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

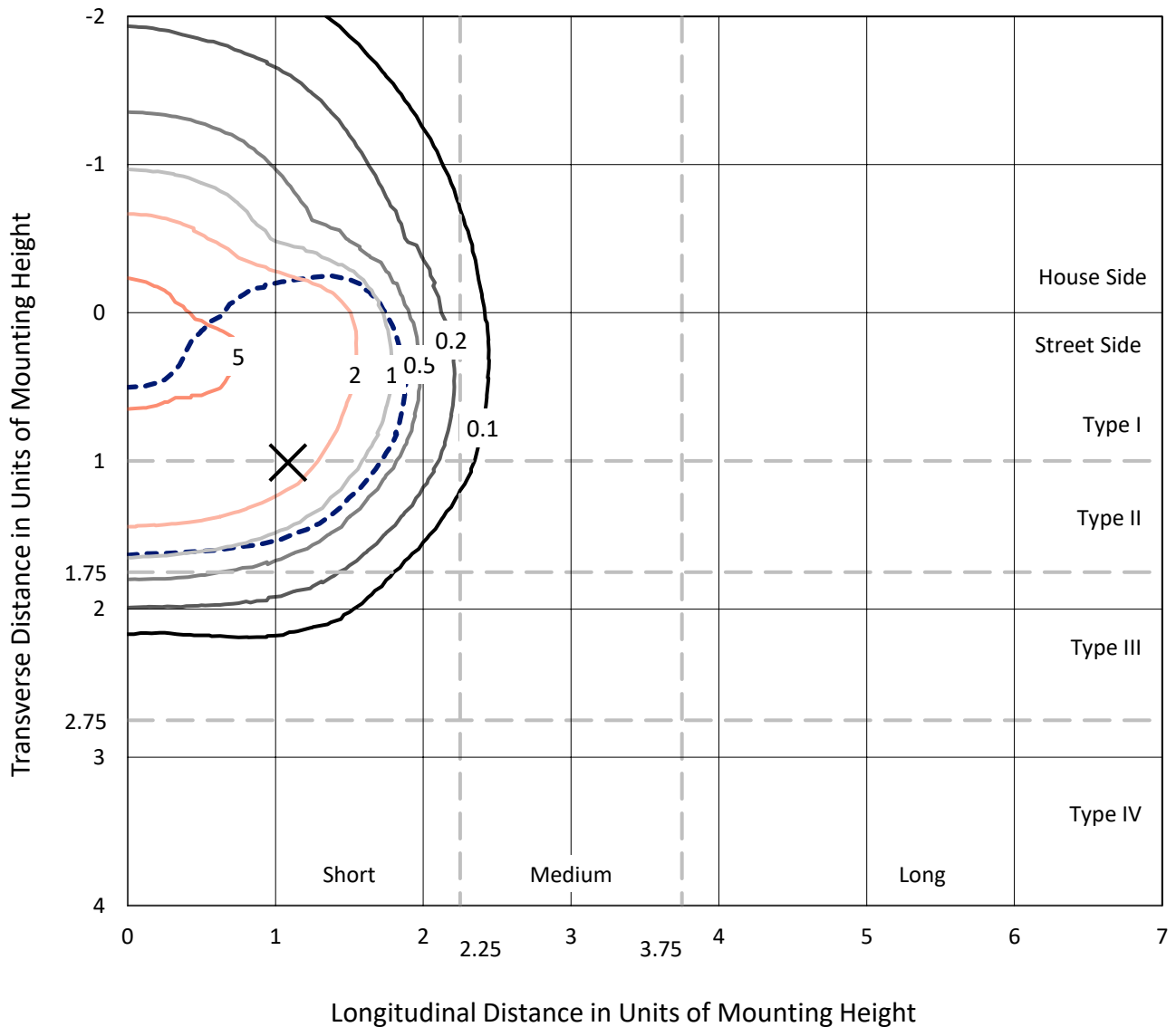
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

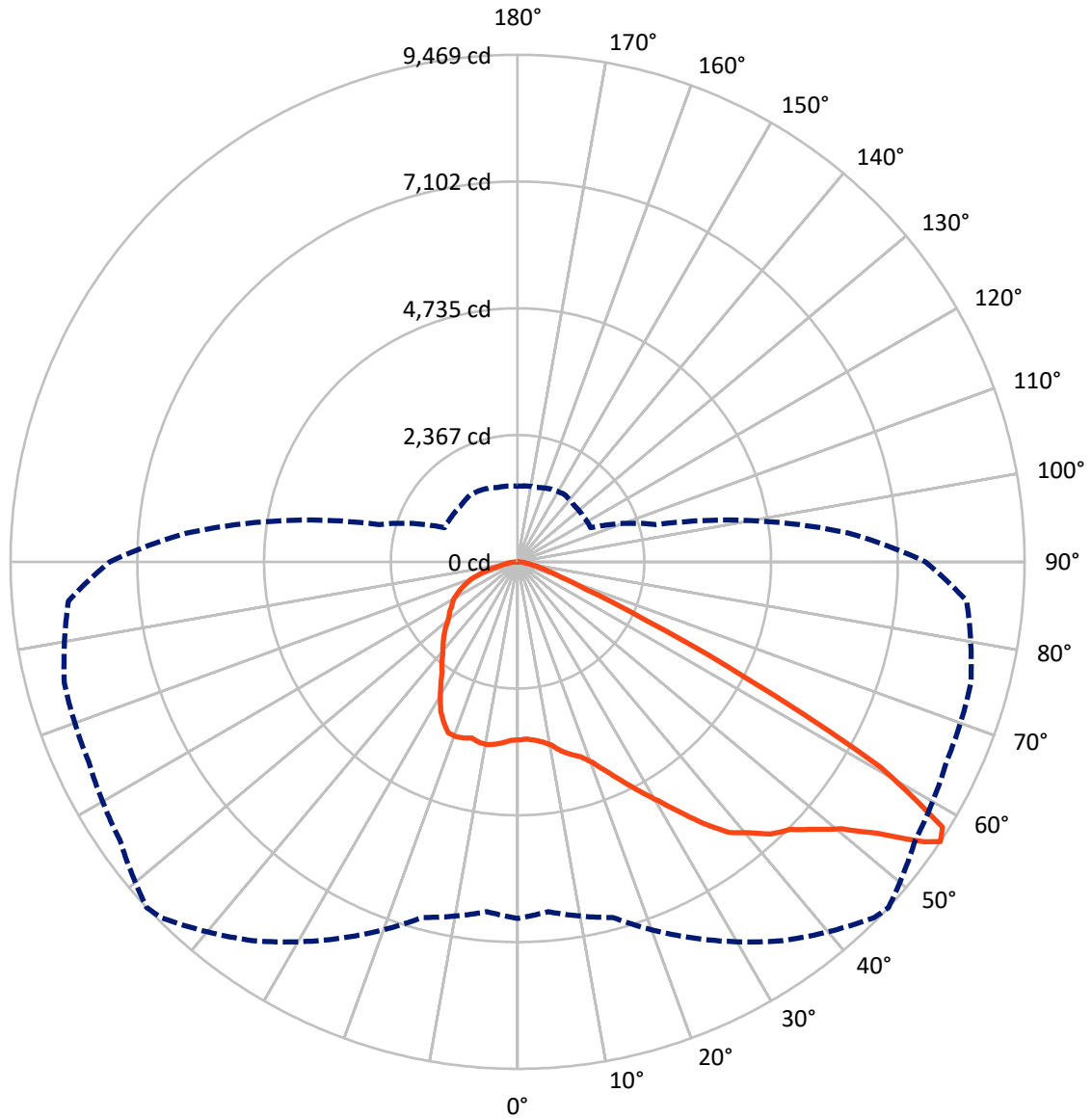
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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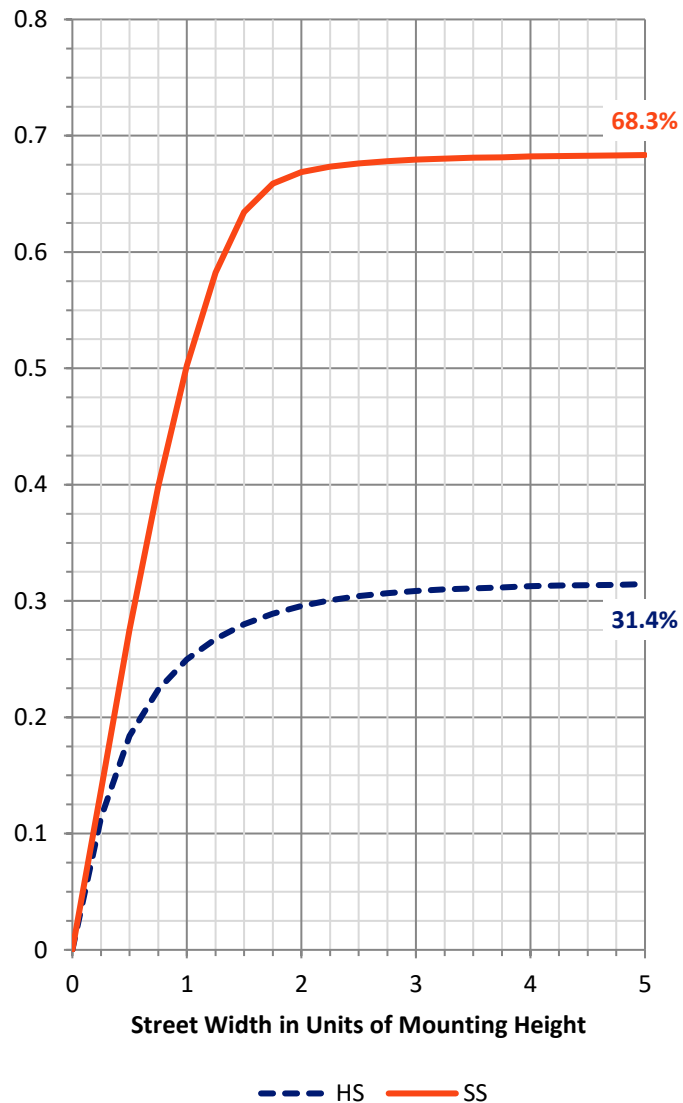
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5247.2	0.0	5247.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11311.3	0.0	11311.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	16558.4	0.0	16558.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	2.0
10°-20°	1022.3	6.2
20°-30°	1807.2	10.9
30°-40°	2714.4	16.4
40°-50°	3725.2	22.5
50°-60°	4438.1	26.8
60°-70°	1899.2	11.5
70°-80°	537.5	3.2
80°-90°	90.4	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°	16558.4	100.0
0°-180°	16558.4	100.0

Coefficient of Utilization



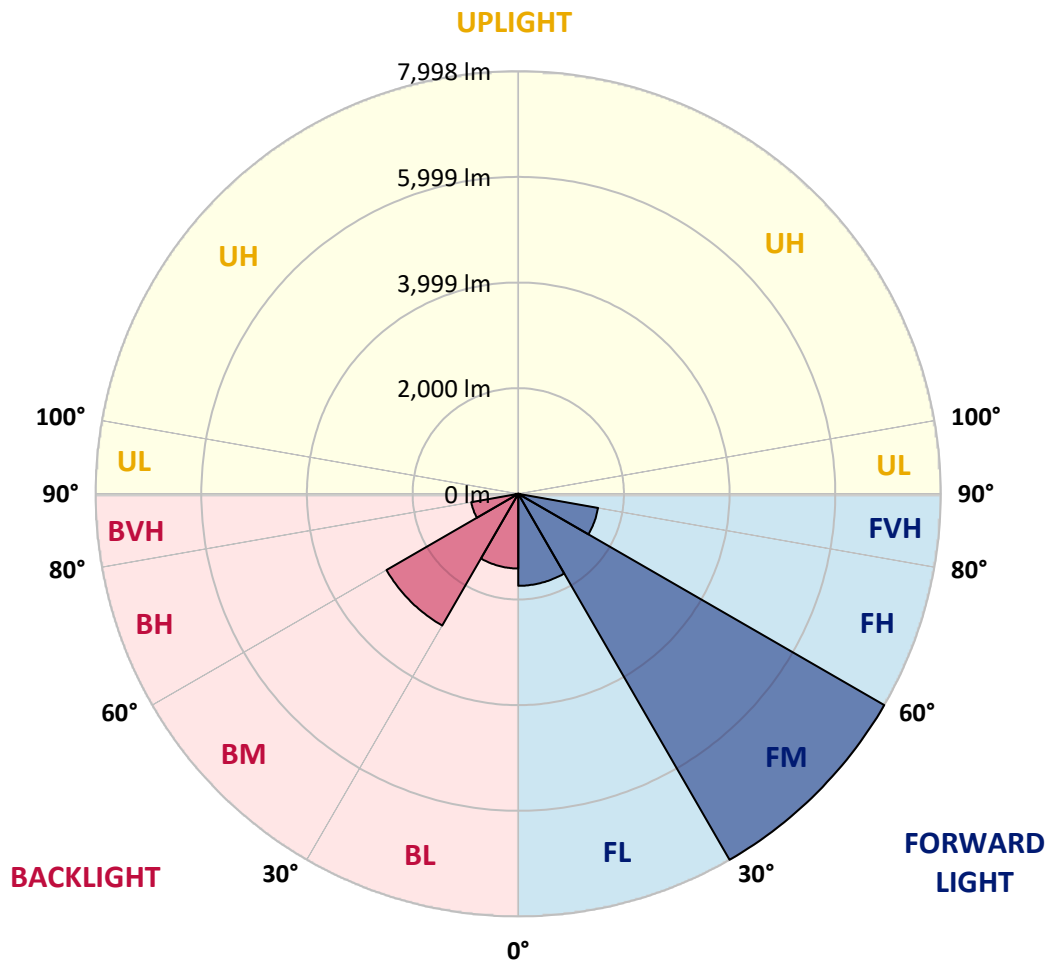
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.9	10.5			
FM (30°-60°)	7998.1	48.3			
FH (60°-80°)	1533.9	9.3			G1/1800
FVH (80°-90°)	38.4	0.2			G1/100
BL (0°-30°)	1412.8	8.5	B3/2500		
BM (30°-60°)	2879.6	17.4	B3/5000		
BH (60°-80°)	902.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	52.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1
2.5°	3313.5	3307.1	3302.9	3336.7	3324.0	3326.1	3313.5	3326.1	3334.6	3315.6	3343.0
5°	3307.1	3326.1	3309.2	3319.8	3347.2	3338.8	3347.2	3372.6	3366.2	3359.9	3351.5
7.5°	3366.2	3368.3	3381.0	3385.2	3393.7	3385.2	3397.9	3421.1	3414.8	3378.9	3383.1
10°	3450.7	3454.9	3457.0	3480.2	3495.0	3497.1	3482.3	3461.2	3459.1	3507.7	3473.9
12.5°	3547.8	3537.2	3562.6	3571.1	3588.0	3607.0	3626.0	3581.7	3609.1	3611.2	3571.1
15°	3689.3	3699.9	3670.3	3670.3	3676.7	3678.8	3731.5	3710.4	3706.2	3683.0	3699.9
17.5°	3900.5	3828.7	3826.6	3797.0	3792.8	3809.7	3828.7	3845.6	3902.6	3856.2	3765.3
20°	4054.6	4071.5	4010.3	3974.4	3980.8	4018.8	3999.8	4075.7	4115.9	4039.9	3951.2
22.5°	4327.1	4270.1	4284.8	4204.6	4211.0	4251.1	4249.0	4327.1	4350.3	4230.0	4101.1
25°	4510.8	4496.0	4508.7	4445.4	4453.8	4485.5	4536.2	4664.9	4626.9	4493.9	4196.2
27.5°	4779.0	4749.5	4738.9	4715.7	4707.2	4791.7	4850.8	4988.1	4960.6	4766.4	4365.1
30°	5053.6	5034.6	5045.1	4950.0	4983.9	5163.3	5180.2	5368.2	5355.6	5013.5	4553.0
32.5°	5243.6	5254.1	5273.2	5220.3	5370.3	5513.9	5571.0	5784.2	5794.8	5437.9	4916.3
35°	5549.8	5513.9	5524.4	5585.8	5655.4	5917.3	6010.2	6151.7	6240.4	5883.5	5264.7
37.5°	5742.0	5780.0	5735.6	5832.8	6014.4	6329.1	6413.6	6559.3	6652.1	6322.7	5739.9
40°	6041.8	5980.6	6012.3	6082.0	6267.8	6677.5	6654.3	6804.2	6833.8	6696.5	6183.4
42.5°	6364.9	6335.4	6291.1	6449.5	6605.7	6903.5	6949.9	6880.2	7030.2	7061.9	6816.9
45°	6751.5	6787.4	6793.7	6797.9	6935.1	7194.9	7131.6	7070.3	7243.4	7473.6	7209.7
47.5°	7110.4	6996.4	7078.8	7192.8	7387.1	7389.2	7463.1	7317.4	7501.1	7706.0	7564.5
50°	7230.8	7175.9	7285.8	7501.1	7801.0	7832.7	7841.1	7634.2	7729.2	7891.8	7687.0
52.5°	7184.3	7165.3	7446.2	7779.9	8219.2	8379.6	8421.9	8166.4	8219.2	8145.3	7957.3
55°	6962.6	7019.7	7302.7	7982.6	8656.2	9152.5	9232.8	8909.7	8573.9	8630.9	8424.0
56°	6658.5	6559.3	6876.0	7752.4	8637.2	9403.9	9469.3	9066.0	8837.9	8764.0	8419.8
57.5°	5649.1	5520.2	5936.3	6975.3	8157.9	9308.9	9357.4	9131.4	8793.6	8643.6	7805.2
60°	3307.1	3370.5	3898.4	4810.7	6293.2	7632.1	7794.6	7959.4	7733.4	7061.9	5809.5
62.5°	1596.6	1556.4	1934.4	2758.0	3835.0	4871.9	4823.4	5285.9	5539.2	5017.7	3668.2
65°	836.3	832.1	1055.9	1505.7	2107.5	2559.5	2603.8	2853.0	3201.5	2584.8	1862.6
67.5°	614.5	631.4	743.4	1058.0	1355.8	1383.2	1376.9	1501.5	1535.2	1298.8	1144.6
70°	481.5	490.0	572.3	804.6	1009.5	903.8	884.8	899.6	998.9	1041.2	990.4
72.5°	348.4	356.9	426.6	542.7	631.4	616.6	629.3	711.7	834.2	878.5	825.7
75°	232.3	238.6	276.6	331.5	373.8	403.3	426.6	521.6	635.6	661.0	635.6
77.5°	160.5	166.9	192.2	234.4	238.6	257.6	266.1	310.4	380.1	411.8	394.9
80°	90.8	90.8	103.4	120.3	147.8	173.2	177.4	213.3	245.0	266.1	270.3
82.5°	42.2	44.3	54.9	73.9	97.1	120.3	124.6	147.8	171.1	192.2	198.5
85°	21.1	23.2	31.7	44.3	59.1	71.8	69.7	71.8	76.0	71.8	73.9
87.5°	6.3	6.3	8.4	10.6	8.4	10.6	10.6	12.7	14.8	16.9	19.0
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°	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1	3326.1
2.5°	3345.1	3351.5	3309.2	3349.3	3334.6	3332.5	3362.0	3357.8	3368.3	3364.1	3338.8
5°	3347.2	3332.5	3376.8	3336.7	3355.7	3395.8	3368.3	3431.7	3400.0	3421.1	3374.7
7.5°	3412.7	3416.9	3408.5	3425.3	3416.9	3435.9	3421.1	3435.9	3410.6	3412.7	3454.9
10°	3469.7	3457.0	3471.8	3450.7	3465.5	3459.1	3425.3	3414.8	3423.2	3412.7	3440.1
12.5°	3575.3	3552.0	3541.5	3516.1	3499.2	3435.9	3383.1	3353.6	3393.7	3400.0	3387.3
15°	3683.0	3685.1	3636.5	3579.5	3473.9	3378.9	3391.6	3402.1	3402.1	3419.0	3387.3
17.5°	3750.5	3750.5	3706.2	3592.2	3484.5	3429.6	3416.9	3383.1	3353.6	3349.3	3347.2
20°	3868.9	3832.9	3731.5	3590.1	3480.2	3454.9	3359.9	3279.6	3218.4	3197.2	3195.1
22.5°	4004.0	3913.2	3771.7	3594.3	3473.9	3438.0	3260.6	3140.2	3030.5	2984.0	2990.3
25°	4128.6	3982.9	3794.9	3575.3	3450.7	3277.5	3079.0	2912.2	2798.2	2760.2	2741.2
27.5°	4215.2	4056.7	3794.9	3592.2	3364.1	3098.0	2895.3	2681.9	2582.7	2557.4	2561.6
30°	4331.3	4149.7	3860.4	3556.3	3190.9	2865.7	2622.8	2483.5	2424.4	2403.2	2418.0
32.5°	4603.7	4392.5	3951.2	3469.7	2986.1	2633.4	2437.0	2358.9	2272.3	2230.1	2215.3
35°	4899.4	4622.7	4039.9	3324.0	2755.9	2422.2	2299.7	2228.0	2124.5	2078.0	2086.4
37.5°	5317.6	4918.4	4046.2	3083.2	2506.7	2304.0	2192.1	2080.1	1995.7	1923.9	1902.8
40°	5881.4	5321.8	4031.4	2829.8	2306.1	2164.6	2082.2	1942.9	1847.8	1797.1	1807.7
42.5°	6377.6	5794.8	3970.2	2542.6	2124.5	2069.5	1976.7	1839.4	1746.4	1693.7	1689.4
45°	6795.8	6143.3	3854.1	2297.6	1972.4	1964.0	1856.3	1750.7	1676.8	1628.2	1649.3
47.5°	7182.2	6424.1	3678.8	2052.7	1833.0	1849.9	1746.4	1681.0	1634.6	1590.2	1588.1
50°	7321.7	6419.9	3524.6	1849.9	1721.1	1712.7	1708.4	1638.8	1590.2	1552.1	1569.1
52.5°	7553.9	6491.7	3357.8	1710.6	1619.8	1621.9	1636.7	1586.0	1531.0	1507.8	1528.9
55°	7887.6	6502.3	2990.3	1547.9	1535.2	1550.0	1550.0	1516.2	1469.8	1450.8	1440.2
56°	7615.2	6187.6	2681.9	1505.7	1493.0	1493.0	1533.1	1495.1	1438.1	1423.4	1410.7
57.5°	7023.9	5421.0	2244.9	1455.0	1436.0	1465.6	1486.7	1446.6	1393.8	1372.7	1385.4
60°	4844.5	3668.2	1687.3	1345.2	1345.2	1393.8	1410.7	1351.6	1328.4	1326.2	1309.4
62.5°	2827.7	2137.1	1319.9	1245.9	1250.1	1290.3	1303.0	1269.2	1239.6	1275.5	1292.4
65°	1499.4	1275.5	1131.9	1140.4	1142.5	1174.2	1229.0	1226.9	1224.8	1235.4	1237.5
67.5°	1085.5	1060.2	1028.5	1020.0	1024.3	1047.5	1102.4	1144.6	1142.5	1117.2	1098.2
70°	967.2	931.3	912.3	914.4	897.5	924.9	969.3	996.8	948.2	918.6	905.9
72.5°	804.6	794.1	781.4	783.5	749.7	743.4	692.6	692.6	680.0	671.5	686.3
75°	614.5	610.3	616.6	606.1	570.2	532.2	502.6	475.2	432.9	416.0	407.5
77.5°	388.5	401.2	416.0	392.8	378.0	350.5	321.0	293.5	259.8	240.8	240.8
80°	264.0	274.5	285.1	280.9	264.0	238.6	215.4	185.9	162.6	147.8	145.7
82.5°	200.7	209.1	223.9	207.0	190.1	169.0	150.0	128.8	107.7	90.8	90.8
85°	71.8	82.3	90.8	99.2	105.6	107.7	92.9	76.0	61.2	48.6	46.4
87.5°	19.0	21.1	23.2	21.1	21.1	21.1	23.2	21.1	19.0	14.8	14.8
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)