

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: P529128

Luminaire Tested: **GALN-SA4B-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529128
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-SA4B-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 17478 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

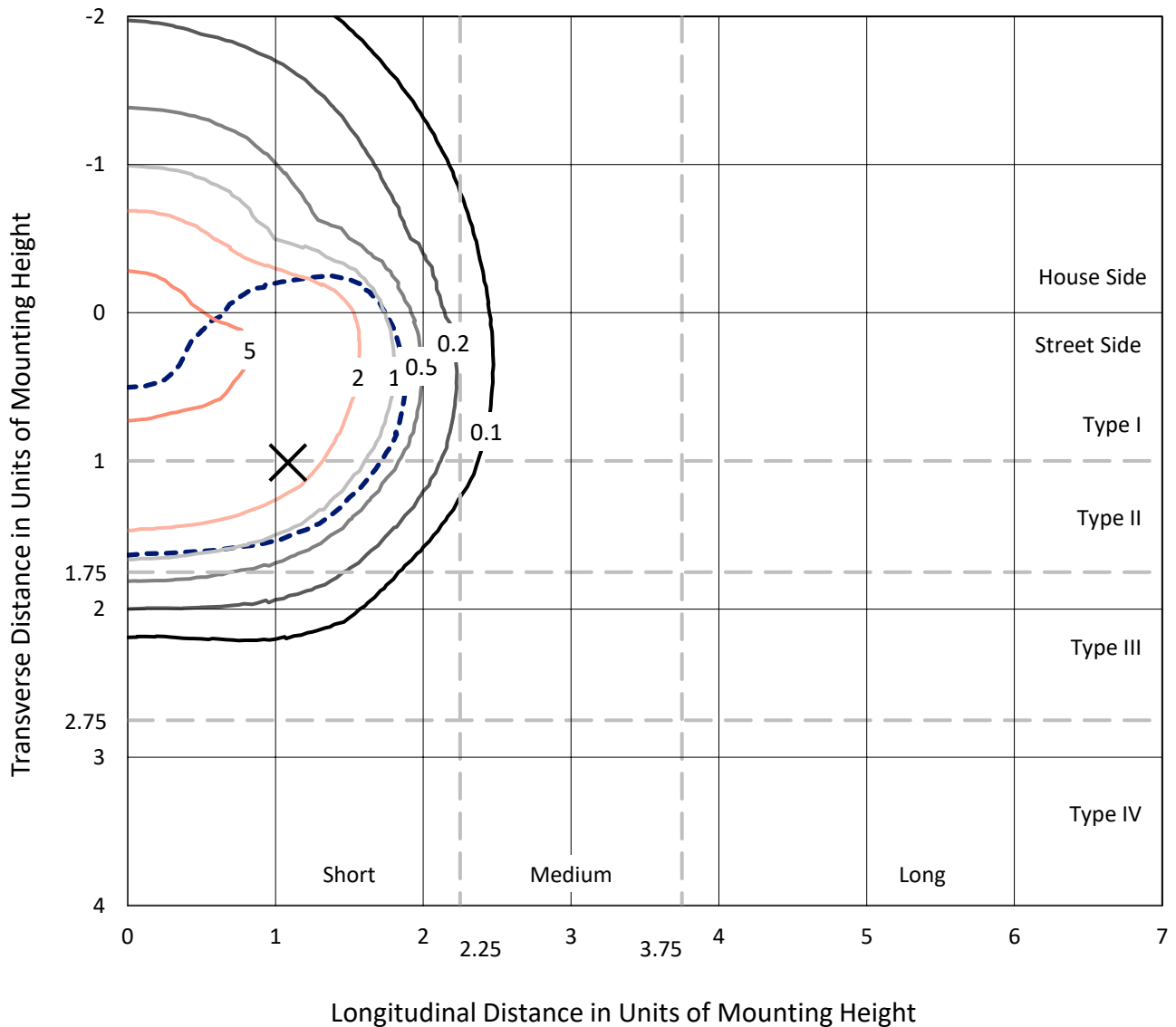
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

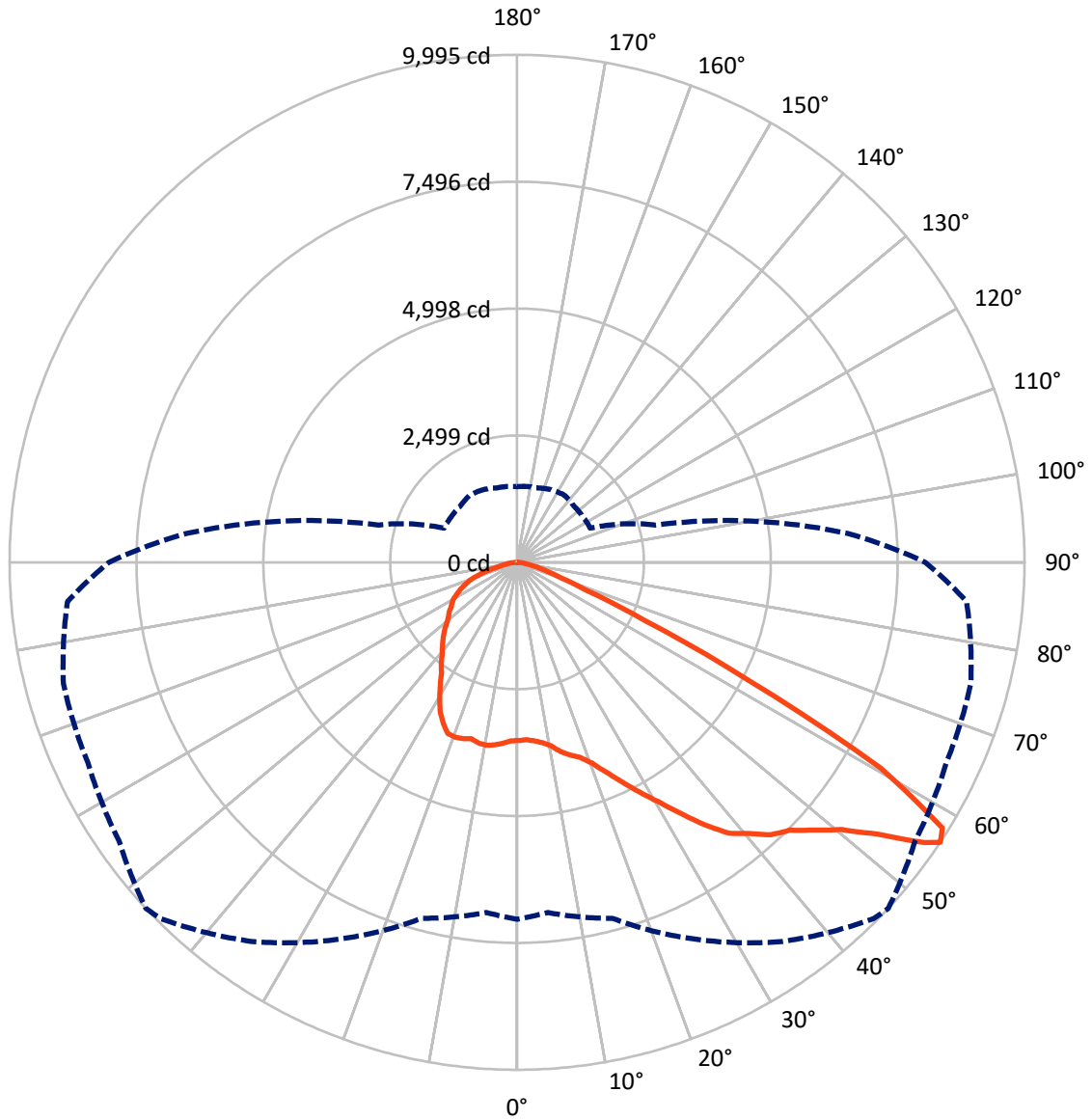
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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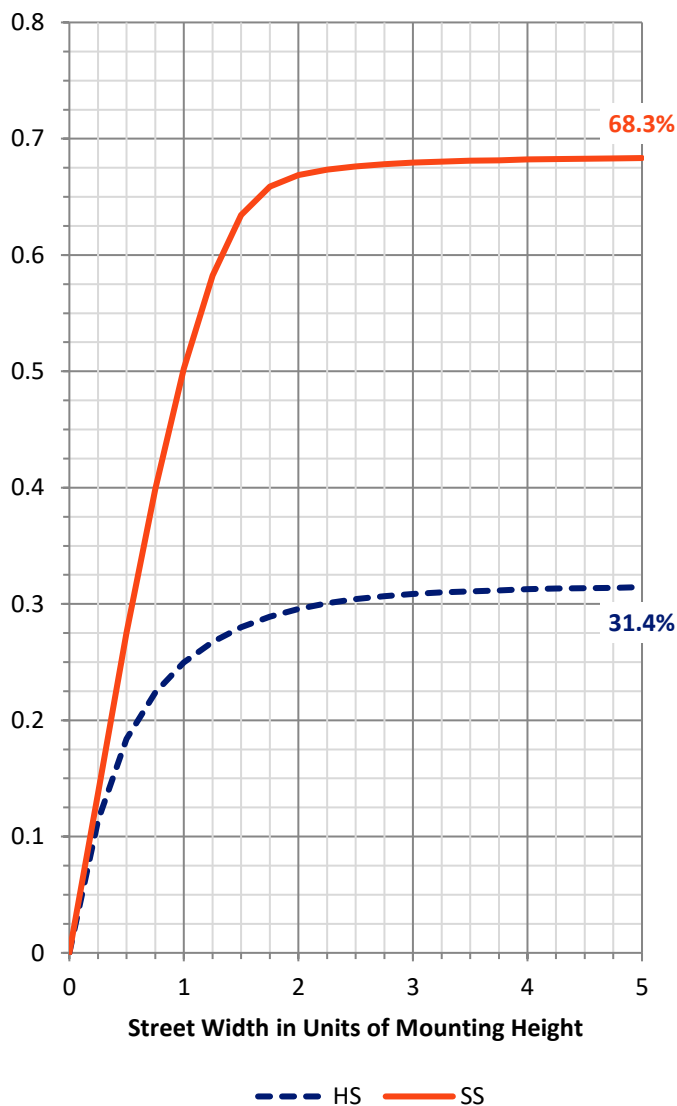
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5538.6	0.0	5538.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11939.4	0.0	11939.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	17478.0	0.0	17478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	2.0
10°-20°	1079.1	6.2
20°-30°	1907.6	10.9
30°-40°	2865.1	16.4
40°-50°	3932.1	22.5
50°-60°	4684.6	26.8
60°-70°	2004.7	11.5
70°-80°	567.3	3.2
80°-90°	95.5	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°	17478.0	100.0
0°-180°	17478.0	100.0

Coefficient of Utilization

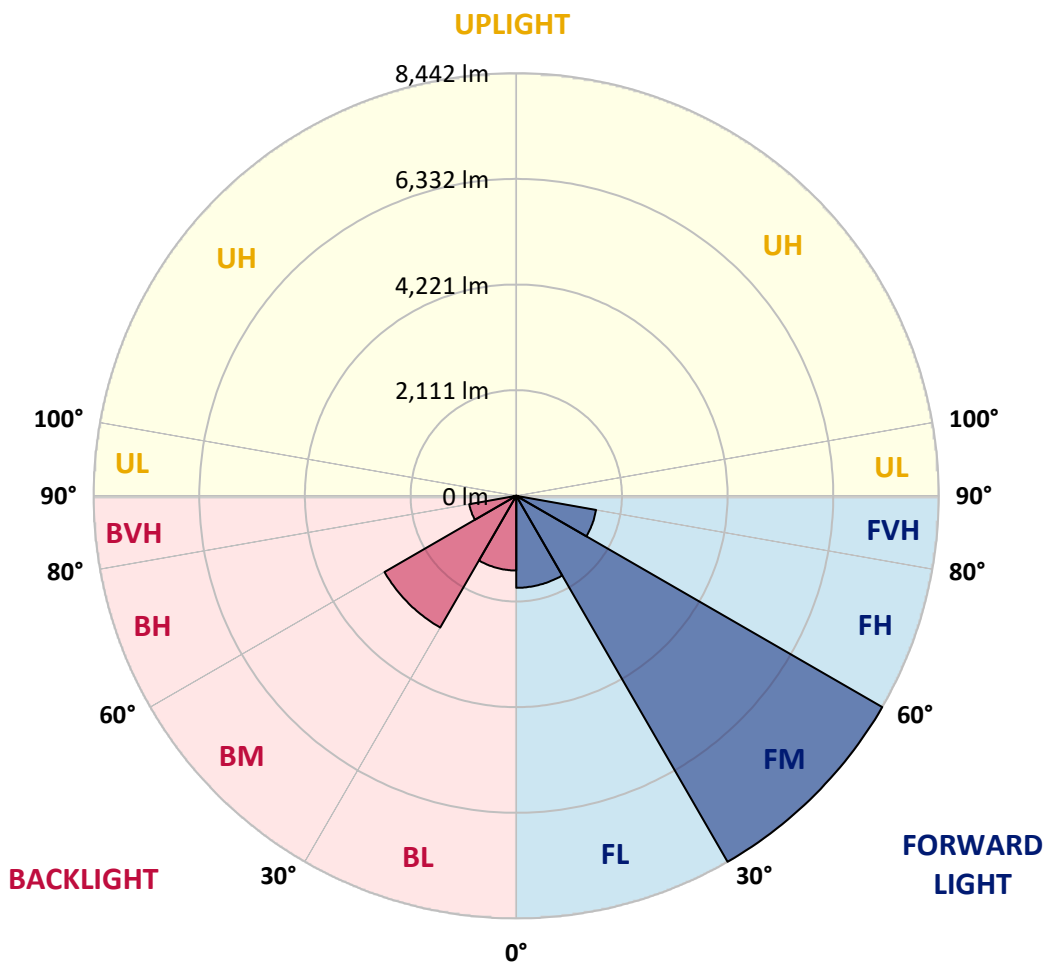


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.5	10.5			
FM (30°-60°)	8442.3	48.3			
FH (60°-80°)	1619.1	9.3			G1/1800
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	1491.2	8.5	B3/2500		
BM (30°-60°)	3039.5	17.4	B3/5000		
BH (60°-80°)	952.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	55.0	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°	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8
2.5°	3497.4	3490.7	3486.3	3521.9	3508.6	3510.8	3497.4	3510.8	3519.7	3499.7	3528.6
5°	3490.7	3510.8	3493.0	3504.1	3533.1	3524.2	3533.1	3559.8	3553.2	3546.5	3537.5
7.5°	3553.2	3555.4	3568.8	3573.2	3582.1	3573.2	3586.6	3611.1	3604.4	3566.5	3571.0
10°	3642.3	3646.8	3649.0	3673.5	3689.1	3691.4	3675.8	3653.5	3651.2	3702.5	3666.8
12.5°	3744.9	3733.7	3760.5	3769.4	3787.2	3807.3	3827.3	3780.5	3809.5	3811.7	3769.4
15°	3894.2	3905.3	3874.1	3874.1	3880.8	3883.1	3938.8	3916.5	3912.0	3887.5	3905.3
17.5°	4117.1	4041.3	4039.1	4007.9	4003.4	4021.3	4041.3	4059.2	4119.3	4070.3	3974.4
20°	4279.8	4297.7	4233.0	4195.1	4201.8	4241.9	4221.9	4302.1	4344.5	4264.2	4170.6
22.5°	4567.4	4507.2	4522.8	4438.1	4444.8	4487.1	4484.9	4567.4	4591.9	4464.8	4328.9
25°	4761.3	4745.7	4759.1	4692.2	4701.1	4734.6	4788.1	4924.0	4883.9	4743.5	4429.2
27.5°	5044.4	5013.2	5002.1	4977.5	4968.6	5057.8	5120.2	5265.1	5236.1	5031.0	4607.5
30°	5334.2	5314.1	5325.3	5225.0	5260.6	5450.1	5467.9	5666.3	5652.9	5291.8	4805.9
32.5°	5534.8	5545.9	5566.0	5510.3	5668.5	5820.1	5880.3	6105.4	6116.6	5739.9	5189.3
35°	5858.0	5820.1	5831.3	5895.9	5969.5	6245.9	6344.0	6493.3	6586.9	6210.2	5557.1
37.5°	6060.9	6101.0	6054.2	6156.7	6348.4	6680.5	6769.7	6923.5	7021.6	6673.9	6058.6
40°	6377.4	6312.8	6346.2	6419.7	6615.9	7048.3	7023.8	7182.1	7213.3	7068.4	6526.7
42.5°	6718.4	6687.2	6640.4	6807.6	6972.6	7286.9	7335.9	7262.3	7420.6	7454.0	7195.5
45°	7126.4	7164.3	7170.9	7175.4	7320.3	7594.5	7527.6	7463.0	7645.7	7888.7	7610.1
47.5°	7505.3	7384.9	7471.9	7592.2	7797.3	7799.5	7877.6	7723.8	7917.7	8133.9	7984.6
50°	7632.4	7574.4	7690.3	7917.7	8234.2	8267.7	8276.6	8058.1	8158.4	8330.1	8113.8
52.5°	7583.3	7563.3	7859.7	8211.9	8675.6	8845.0	8889.6	8619.8	8675.6	8597.6	8399.2
55°	7349.3	7409.5	7708.2	8425.9	9137.0	9660.8	9745.5	9404.5	9050.1	9110.2	8891.8
56°	7028.3	6923.5	7257.9	8182.9	9116.9	9926.1	9995.2	9569.4	9328.7	9250.7	8887.3
57.5°	5962.8	5826.8	6265.9	7362.6	8610.9	9825.8	9877.0	9638.5	9281.9	9123.6	8238.7
60°	3490.7	3557.6	4114.9	5077.8	6642.7	8055.9	8227.5	8401.4	8162.9	7454.0	6132.2
62.5°	1685.2	1642.8	2041.8	2911.2	4048.0	5142.5	5091.2	5579.4	5846.9	5296.3	3871.9
65°	882.7	878.3	1114.5	1589.3	2224.6	2701.6	2748.5	3011.5	3379.3	2728.4	1966.0
67.5°	648.7	666.5	784.6	1116.8	1431.1	1460.0	1453.4	1584.9	1620.5	1370.9	1208.2
70°	508.2	517.1	604.1	849.3	1065.5	954.0	934.0	949.6	1054.4	1098.9	1045.4
72.5°	367.8	376.7	450.3	572.9	666.5	650.9	664.3	751.2	880.5	927.3	871.6
75°	245.2	251.9	292.0	350.0	394.5	425.8	450.3	550.6	671.0	697.7	671.0
77.5°	169.4	176.1	202.8	247.4	251.9	271.9	280.9	327.7	401.2	434.7	416.8
80°	95.9	95.9	109.2	127.1	156.0	182.8	187.2	225.1	258.6	280.9	285.3
82.5°	44.6	46.8	58.0	78.0	102.5	127.1	131.5	156.0	180.6	202.8	209.5
85°	22.3	24.5	33.4	46.8	62.4	75.8	73.6	75.8	80.2	75.8	78.0
87.5°	6.7	6.7	8.9	11.1	8.9	11.1	11.1	13.4	15.6	17.8	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°	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8	3510.8
2.5°	3530.9	3537.5	3493.0	3535.3	3519.7	3517.5	3548.7	3544.2	3555.4	3550.9	3524.2
5°	3533.1	3517.5	3564.3	3521.9	3542.0	3584.4	3555.4	3622.3	3588.8	3611.1	3562.1
7.5°	3602.2	3606.6	3597.7	3615.6	3606.6	3626.7	3611.1	3626.7	3600.0	3602.2	3646.8
10°	3662.4	3649.0	3664.6	3642.3	3657.9	3651.2	3615.6	3604.4	3613.3	3602.2	3631.2
12.5°	3773.8	3749.3	3738.2	3711.4	3693.6	3626.7	3571.0	3539.8	3582.1	3588.8	3575.4
15°	3887.5	3889.7	3838.5	3778.3	3666.8	3566.5	3579.9	3591.0	3591.0	3608.9	3575.4
17.5°	3958.8	3958.8	3912.0	3791.7	3678.0	3620.0	3606.6	3571.0	3539.8	3535.3	3533.1
20°	4083.7	4045.8	3938.8	3789.4	3673.5	3646.8	3546.5	3461.8	3397.1	3374.8	3372.6
22.5°	4226.3	4130.5	3981.1	3793.9	3666.8	3628.9	3441.7	3314.6	3198.7	3149.7	3156.4
25°	4357.8	4204.0	4005.7	3773.8	3642.3	3459.5	3250.0	3073.9	2953.5	2913.4	2893.3
27.5°	4449.2	4282.1	4005.7	3791.7	3550.9	3270.1	3056.1	2830.9	2726.2	2699.4	2703.9
30°	4571.8	4380.1	4074.8	3753.8	3368.1	3024.9	2768.5	2621.4	2559.0	2536.7	2552.3
32.5°	4859.4	4636.5	4170.6	3662.4	3151.9	2779.7	2572.4	2489.9	2398.5	2353.9	2338.3
35°	5171.5	4879.5	4264.2	3508.6	2908.9	2556.8	2427.5	2351.7	2242.5	2193.4	2202.3
37.5°	5612.8	5191.5	4270.9	3254.5	2645.9	2431.9	2313.8	2195.6	2106.5	2030.7	2008.4
40°	6208.0	5617.3	4255.3	2987.0	2434.2	2284.8	2197.9	2050.8	1950.4	1896.9	1908.1
42.5°	6731.8	6116.6	4190.7	2683.8	2242.5	2184.5	2086.4	1941.5	1843.4	1787.7	1783.3
45°	7173.2	6484.4	4068.1	2425.2	2082.0	2073.0	1959.4	1847.9	1769.9	1718.6	1740.9
47.5°	7581.1	6780.9	3883.1	2166.7	1934.8	1952.7	1843.4	1774.3	1725.3	1678.5	1676.3
50°	7728.2	6776.4	3720.3	1952.7	1816.7	1807.8	1803.3	1729.8	1678.5	1638.4	1656.2
52.5°	7973.4	6852.2	3544.2	1805.6	1709.7	1711.9	1727.5	1674.0	1616.1	1591.6	1613.9
55°	8325.6	6863.3	3156.4	1633.9	1620.5	1636.1	1636.1	1600.5	1551.4	1531.4	1520.2
56°	8038.1	6531.2	2830.9	1589.3	1576.0	1576.0	1618.3	1578.2	1518.0	1502.4	1489.0
57.5°	7413.9	5722.0	2369.5	1535.8	1515.8	1547.0	1569.3	1526.9	1471.2	1448.9	1462.3
60°	5113.5	3871.9	1781.0	1419.9	1419.9	1471.2	1489.0	1426.6	1402.1	1399.9	1382.0
62.5°	2984.7	2255.8	1393.2	1315.2	1319.6	1362.0	1375.3	1339.7	1308.5	1346.4	1364.2
65°	1582.6	1346.4	1194.8	1203.7	1205.9	1239.4	1297.3	1295.1	1292.9	1304.0	1306.2
67.5°	1145.7	1119.0	1085.6	1076.6	1081.1	1105.6	1163.6	1208.2	1205.9	1179.2	1159.1
70°	1020.9	983.0	963.0	965.2	947.4	976.3	1023.1	1052.1	1000.9	969.6	956.3
72.5°	849.3	838.1	824.8	827.0	791.3	784.6	731.1	731.1	717.8	708.8	724.5
75°	648.7	644.2	650.9	639.7	601.9	561.7	530.5	501.5	457.0	439.1	430.2
77.5°	410.2	423.5	439.1	414.6	399.0	370.0	338.8	309.8	274.2	254.1	254.1
80°	278.6	289.8	300.9	296.5	278.6	251.9	227.4	196.2	171.6	156.0	153.8
82.5°	211.8	220.7	236.3	218.4	200.6	178.3	158.3	136.0	113.7	95.9	95.9
85°	75.8	86.9	95.9	104.8	111.5	113.7	98.1	80.2	64.6	51.3	49.0
87.5°	20.1	22.3	24.5	22.3	22.3	22.3	24.5	22.3	20.1	15.6	15.6
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)