

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: P652414

Luminaire Tested: **GALN-SA5B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14575.4 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

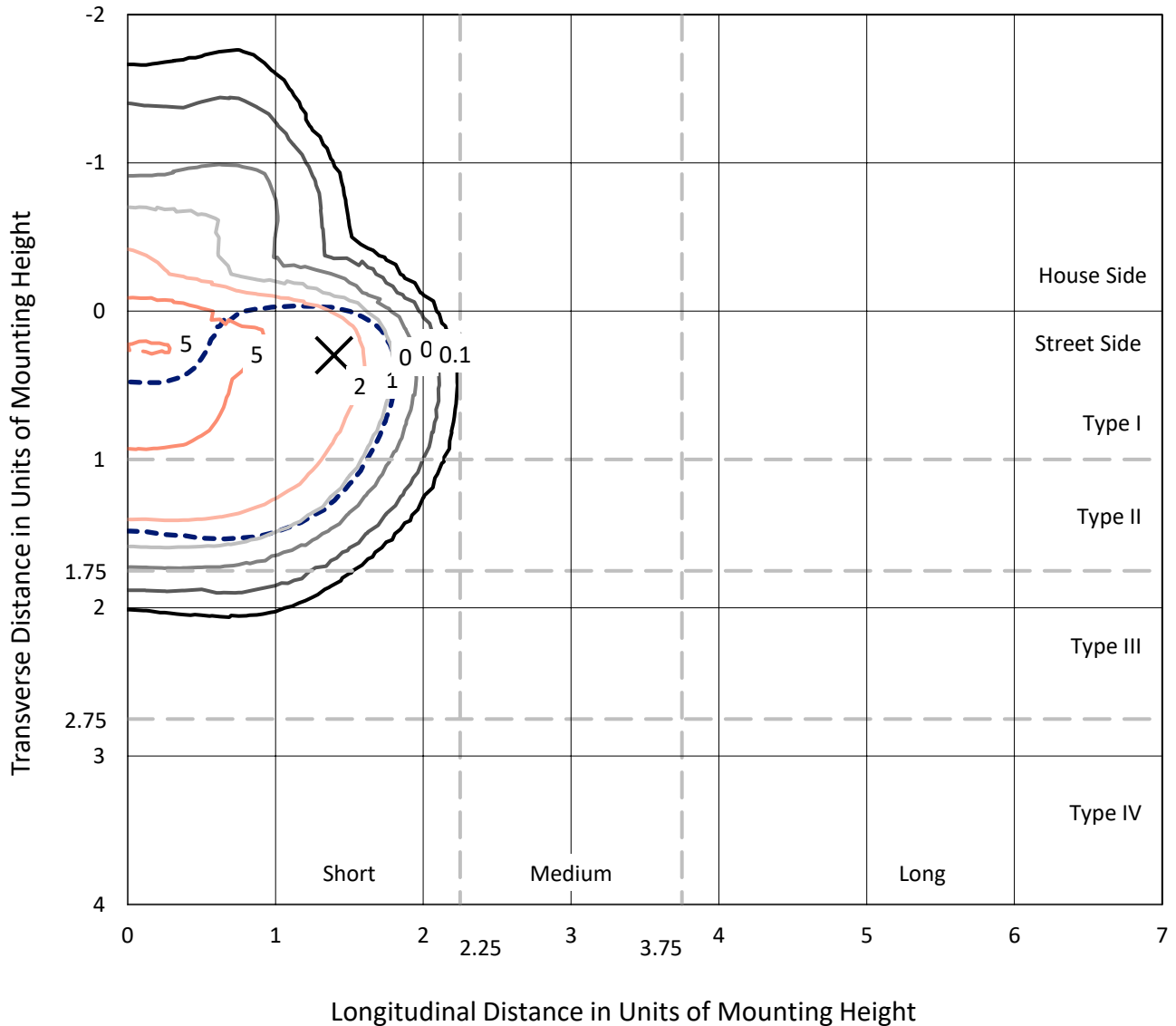
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

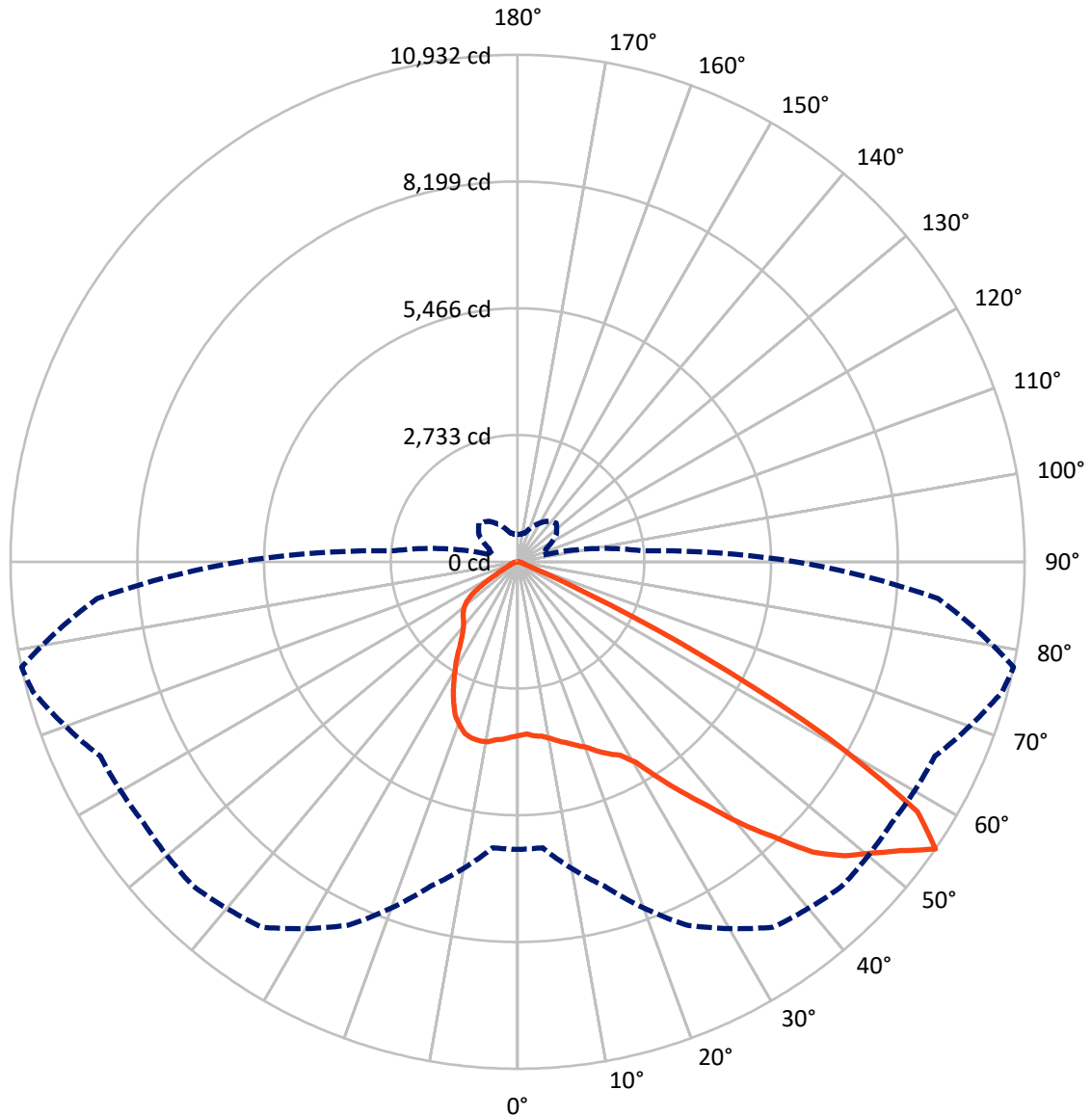
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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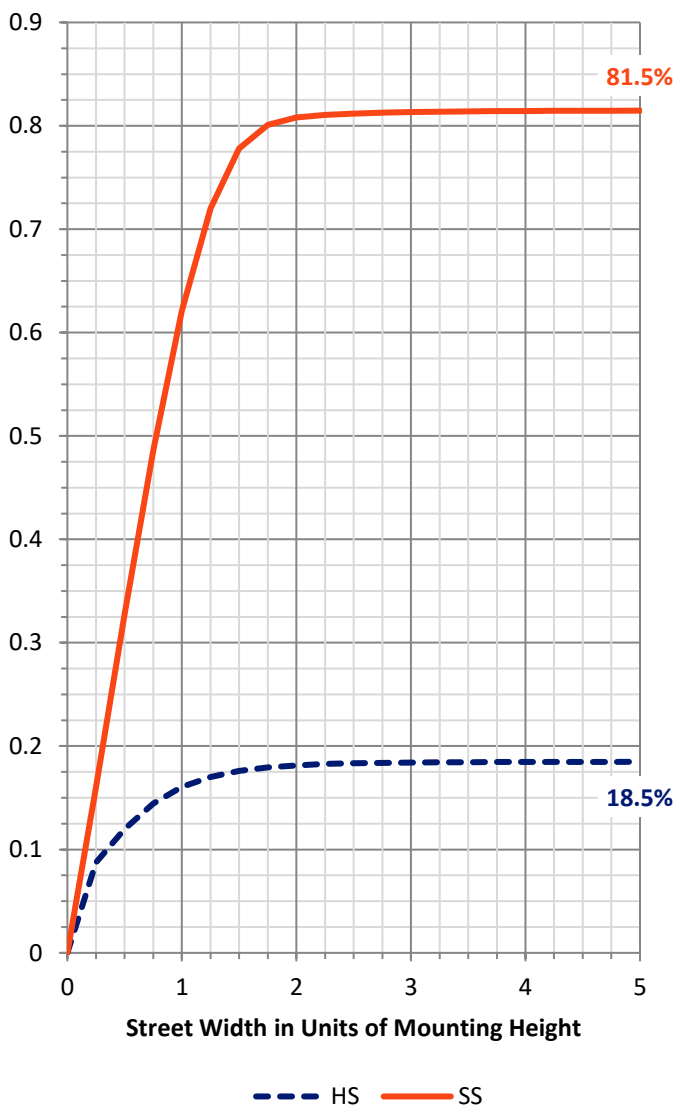
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2707.2	0.0	2707.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11868.2	0.0	11868.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	14575.4	0.0	14575.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	2.3
10°-20°	884.3	6.1
20°-30°	1550.0	10.6
30°-40°	2555.8	17.5
40°-50°	3719.1	25.5
50°-60°	4214.1	28.9
60°-70°	1204.9	8.3
70°-80°	93.6	0.6
80°-90°	19.5	0.1
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°	14575.4	100.0
0°-180°	14575.4	100.0

Coefficient of Utilization



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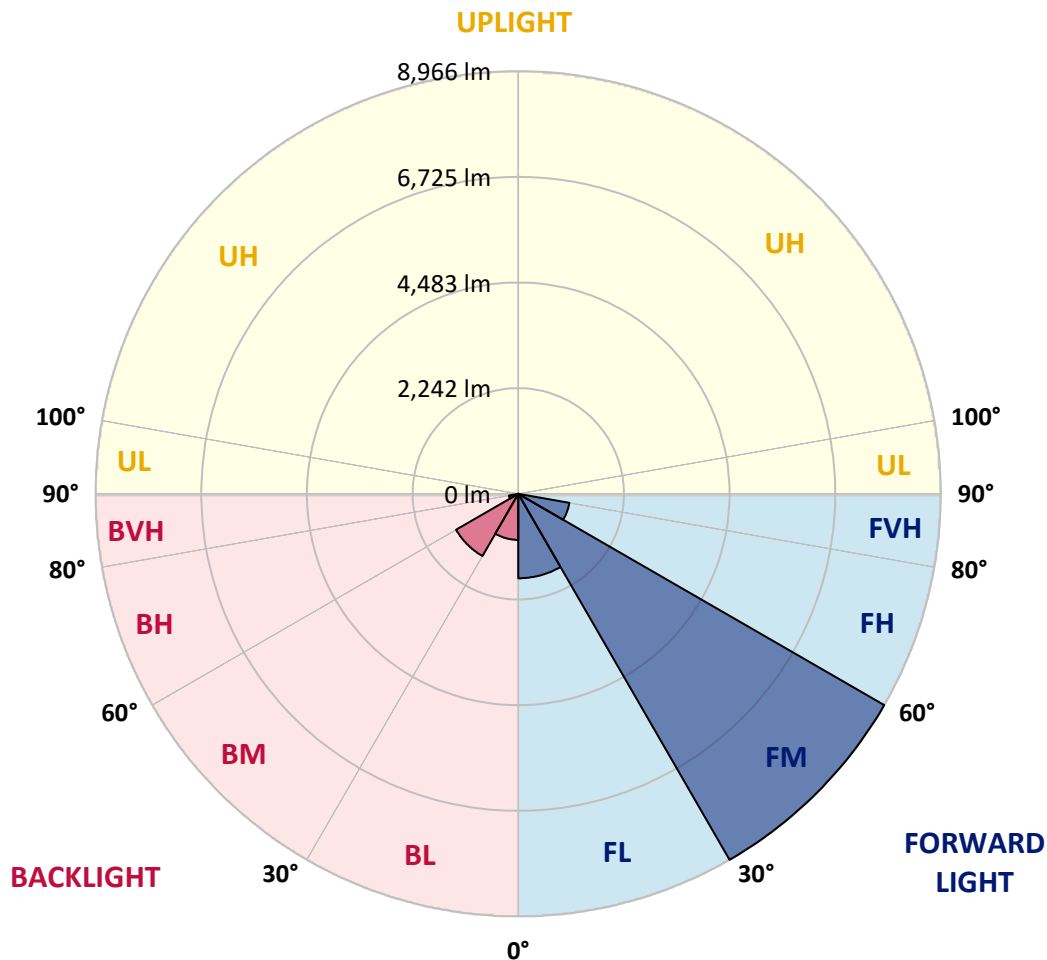
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.7	12.3			
FM (30°-60°)	8966.1	61.5			
FH (60°-80°)	1100.8	7.6			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	976.8	6.7	B2/1000		
BM (30°-60°)	1522.8	10.4	B2/2500		
BH (60°-80°)	197.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3
2.5°	3523.2	3557.1	3562.3	3604.0	3601.4	3671.8	3692.6	3695.2	3742.1	3718.6	3778.6
5°	3424.2	3406.0	3398.1	3471.1	3491.9	3554.5	3606.6	3637.9	3734.3	3768.2	3830.8
7.5°	3335.6	3335.6	3340.8	3406.0	3398.1	3479.0	3533.6	3630.1	3770.8	3799.5	3875.0
10°	3249.6	3218.3	3257.4	3325.1	3382.5	3419.0	3533.6	3624.9	3789.0	3872.4	3976.7
12.5°	3205.3	3220.9	3226.2	3275.7	3338.2	3447.7	3510.2	3661.4	3919.3	3968.8	4080.9
15°	3484.2	3452.9	3377.3	3333.0	3385.1	3437.3	3593.6	3747.3	3987.1	4057.4	4182.5
17.5°	3807.3	3781.2	3718.6	3598.8	3481.6	3578.0	3700.4	3841.2	4060.0	4164.3	4349.3
20°	4229.5	4187.8	4125.2	3890.6	3789.0	3684.8	3815.1	3981.9	4179.9	4273.7	4463.9
22.5°	4732.4	4732.4	4591.7	4307.6	4096.5	3997.5	4052.2	4148.7	4312.8	4440.5	4628.1
25°	5256.2	5240.5	5112.9	4818.3	4461.3	4344.1	4406.7	4474.4	4518.7	4589.1	4714.1
27.5°	5855.5	5764.3	5602.7	5277.0	4961.7	4735.0	4802.7	4742.8	4688.1	4724.6	4904.4
30°	6262.1	6319.4	6113.6	5800.8	5503.8	5251.0	5264.0	5211.8	4961.7	5013.8	5120.7
32.5°	6684.3	6720.7	6606.1	6434.1	6136.9	5842.5	5735.7	5691.4	5503.8	5527.2	5422.9
35°	7036.1	7106.4	7004.8	6929.2	6843.2	6606.1	6311.5	6454.9	6152.6	6095.3	5824.3
37.5°	7359.2	7338.3	7458.2	7380.0	7361.8	7195.0	6871.9	6900.5	6697.2	6684.3	6371.5
40°	7648.4	7653.6	7817.8	7854.3	7781.4	7484.2	7015.2	7241.9	7406.1	7421.7	7020.4
42.5°	7888.2	7958.6	8099.3	8393.7	8284.3	7789.2	7163.7	7411.3	8021.0	8117.5	7635.4
45°	8096.6	8239.9	8414.5	8677.8	8615.2	8221.7	7533.8	7760.5	8677.8	8930.6	8213.9
47.5°	8109.7	8297.3	8487.5	8878.4	8956.6	8453.6	7916.8	8312.9	9198.9	9472.6	8636.1
50°	8057.5	8156.6	8537.1	8961.8	9139.0	8831.5	8453.6	8776.8	9704.5	9876.5	8849.8
52.5°	7439.9	7515.5	8279.1	9040.0	9467.4	9258.9	9165.0	9423.1	10220.5	10348.2	9050.4
55°	6202.1	6189.1	7239.3	8646.5	9618.5	9892.1	9834.8	9926.0	10817.3	10931.9	9100.0
57.5°	4242.4	4479.6	5386.4	7200.2	8693.4	9743.6	9803.5	9652.4	10121.4	10165.8	7932.5
60°	2288.0	2387.0	3116.7	4805.3	6619.1	7940.3	8096.6	7823.0	7786.6	7661.4	5662.7
62.5°	909.5	959.0	1373.4	2379.2	3606.6	4826.2	5162.4	5050.3	4810.5	4482.2	2931.6
65°	432.6	463.9	682.7	1112.7	1600.1	2011.8	2348.0	2452.2	1808.5	1628.7	966.8
67.5°	294.4	317.9	497.7	635.9	570.7	596.8	776.6	721.8	424.8	362.2	268.4
70°	224.1	239.8	398.7	432.6	255.4	179.8	200.7	187.6	174.6	177.2	174.6
72.5°	158.9	172.0	291.8	255.4	112.0	83.4	106.8	127.7	127.7	127.7	125.1
75°	96.4	109.4	169.4	99.0	44.3	44.3	67.8	86.0	91.2	93.9	88.6
77.5°	49.5	62.6	57.4	28.7	28.7	33.9	49.5	60.0	65.2	65.2	62.6
80°	10.4	10.4	10.4	15.6	28.7	36.5	49.5	54.7	62.6	62.6	57.4
82.5°	0.0	2.6	7.8	15.6	26.1	33.9	46.9	54.7	62.6	65.2	60.0
85°	0.0	2.6	5.2	10.4	18.2	20.9	18.2	15.6	15.6	15.6	15.6
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3	3747.3
2.5°	3783.8	3791.6	3778.6	3776.0	3765.6	3796.9	3721.3	3703.0	3749.9	3705.6	3716.0
5°	3833.4	3851.6	3828.1	3789.0	3731.7	3643.1	3567.5	3468.5	3421.6	3387.7	3382.5
7.5°	3869.8	3882.8	3859.4	3734.3	3562.3	3338.2	3171.4	3049.0	2952.5	2923.8	2877.0
10°	4018.4	4021.0	3903.7	3627.5	3291.3	2996.8	2741.4	2553.8	2457.4	2397.4	2371.4
12.5°	4117.4	4112.2	3875.0	3416.4	2968.1	2577.2	2285.4	2058.7	1970.1	1941.4	1923.2
15°	4242.4	4213.8	3807.3	3200.1	2551.2	2129.1	1865.8	1709.5	1701.7	1683.4	1701.7
17.5°	4341.5	4260.7	3708.2	2806.6	2152.5	1753.8	1581.8	1592.3	1613.0	1631.3	1633.9
20°	4503.1	4336.3	3481.6	2462.6	1782.5	1503.6	1501.0	1547.9	1600.1	1620.9	1641.7
22.5°	4625.5	4367.6	3239.2	2095.2	1480.2	1402.0	1446.3	1516.7	1555.8	1576.6	1607.8
25°	4669.8	4281.5	2916.1	1727.8	1334.2	1355.1	1422.8	1469.7	1519.3	1542.7	1529.7
27.5°	4714.1	4237.3	2530.4	1422.8	1256.0	1323.8	1381.2	1428.0	1443.7	1474.9	1495.8
30°	4820.9	4083.5	2183.7	1230.0	1217.0	1303.0	1344.7	1360.3	1402.0	1420.2	1420.2
32.5°	4907.0	4023.6	1816.3	1138.8	1211.8	1313.4	1318.6	1318.6	1323.8	1310.8	1305.6
35°	5084.2	3817.7	1488.0	1084.0	1209.2	1316.0	1329.0	1284.7	1164.9	1117.9	1104.9
37.5°	5303.1	3684.8	1245.6	1071.0	1227.4	1347.3	1368.1	1201.4	1044.9	969.4	956.4
40°	5568.8	3591.0	1086.7	1065.8	1269.1	1420.2	1357.7	1136.2	932.9	823.5	818.3
42.5°	5879.0	3505.0	979.8	1063.2	1321.2	1495.8	1347.3	1081.4	818.3	745.3	755.7
45°	6126.5	3458.1	906.9	1044.9	1339.5	1540.1	1355.1	985.1	771.4	724.4	729.7
47.5°	6319.4	3359.0	847.0	1013.7	1336.9	1555.8	1284.7	946.0	747.9	760.9	774.0
50°	6324.6	3226.2	771.4	946.0	1297.7	1527.1	1204.0	909.5	742.7	797.4	823.5
52.5°	6254.3	3038.5	690.5	849.5	1206.6	1428.0	1131.0	893.8	719.2	714.0	745.3
55°	6004.1	2686.7	555.1	687.9	1019.0	1177.9	1065.8	865.1	648.9	589.0	594.2
57.5°	4852.2	1925.8	409.1	492.5	721.8	862.5	961.6	852.1	583.7	500.3	502.9
60°	3004.6	1091.9	299.6	336.1	445.6	523.8	779.2	792.2	521.2	422.2	417.0
62.5°	1542.7	539.4	231.9	237.2	273.7	307.5	534.2	664.5	471.6	401.3	401.3
65°	516.0	265.8	203.3	182.4	182.4	190.2	323.1	461.3	398.7	336.1	336.1
67.5°	221.5	198.1	177.2	158.9	145.9	138.1	182.4	268.4	297.0	255.4	245.0
70°	172.0	166.8	153.7	132.9	114.6	104.2	106.8	138.1	169.4	164.2	158.9
72.5°	127.7	127.7	122.4	104.2	88.6	75.6	70.4	73.0	80.8	83.4	86.0
75°	88.6	91.2	91.2	80.8	65.2	54.7	46.9	39.1	31.3	26.1	23.5
77.5°	60.0	62.6	67.8	60.0	49.5	36.5	28.7	20.9	13.0	5.2	5.2
80°	52.1	60.0	65.2	60.0	52.1	39.1	28.7	15.6	7.8	0.0	0.0
82.5°	54.7	60.0	67.8	57.4	49.5	36.5	28.7	18.2	7.8	2.6	0.0
85°	13.0	13.0	15.6	18.2	23.5	26.1	20.9	13.0	7.8	2.6	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	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)