

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: P650922

Luminaire Tested: **GALN-SA5C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26018.9 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

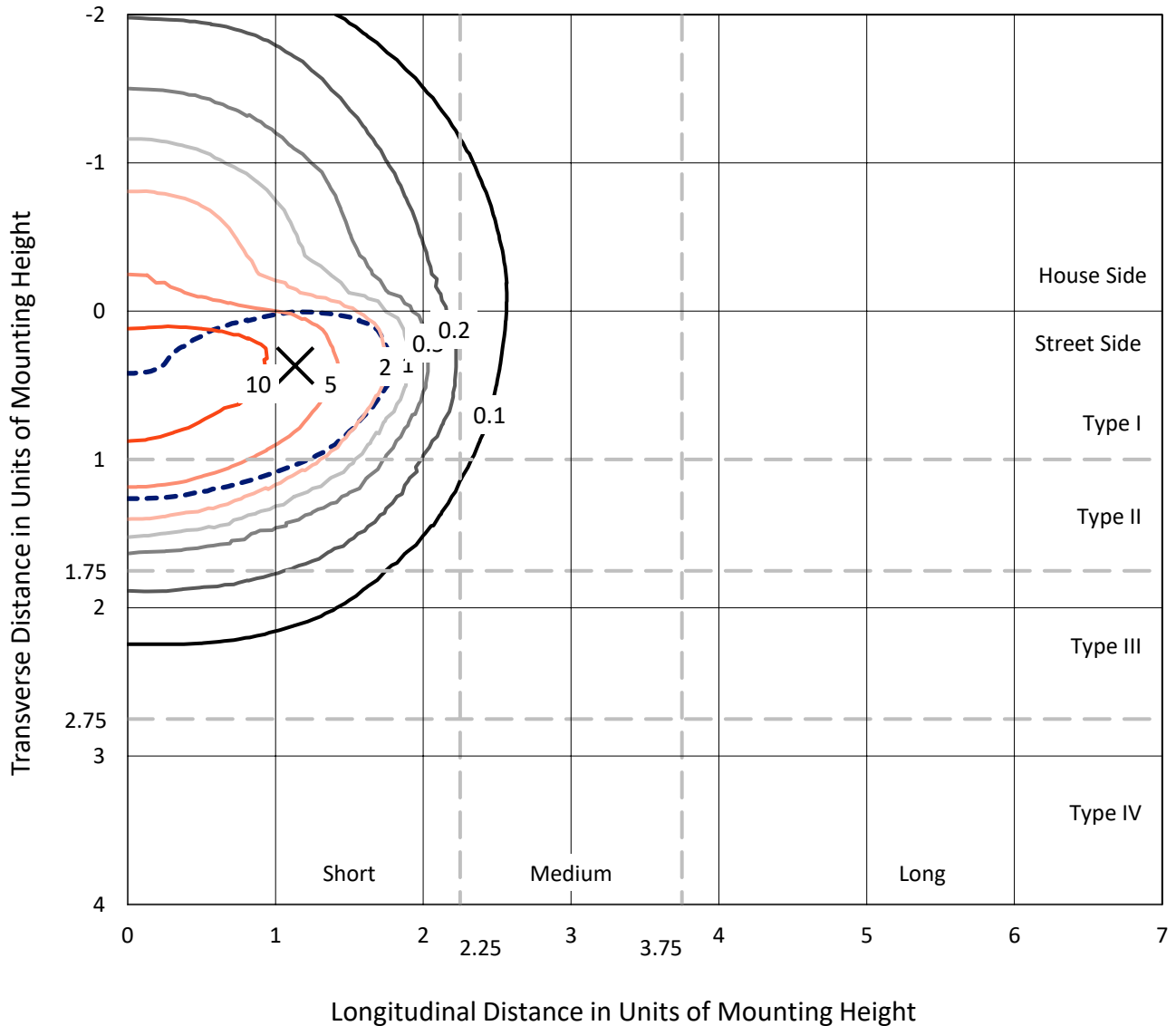
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

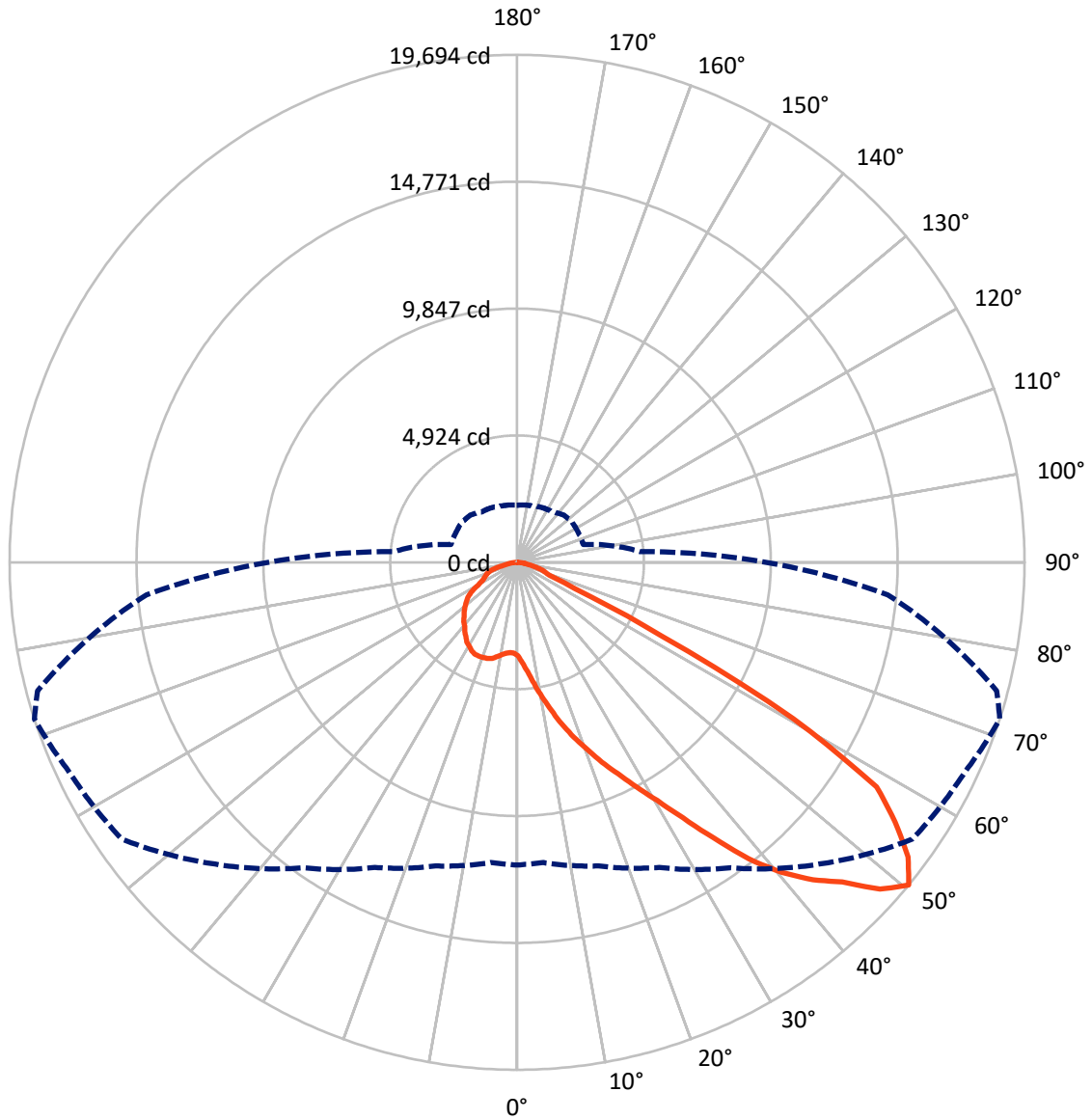
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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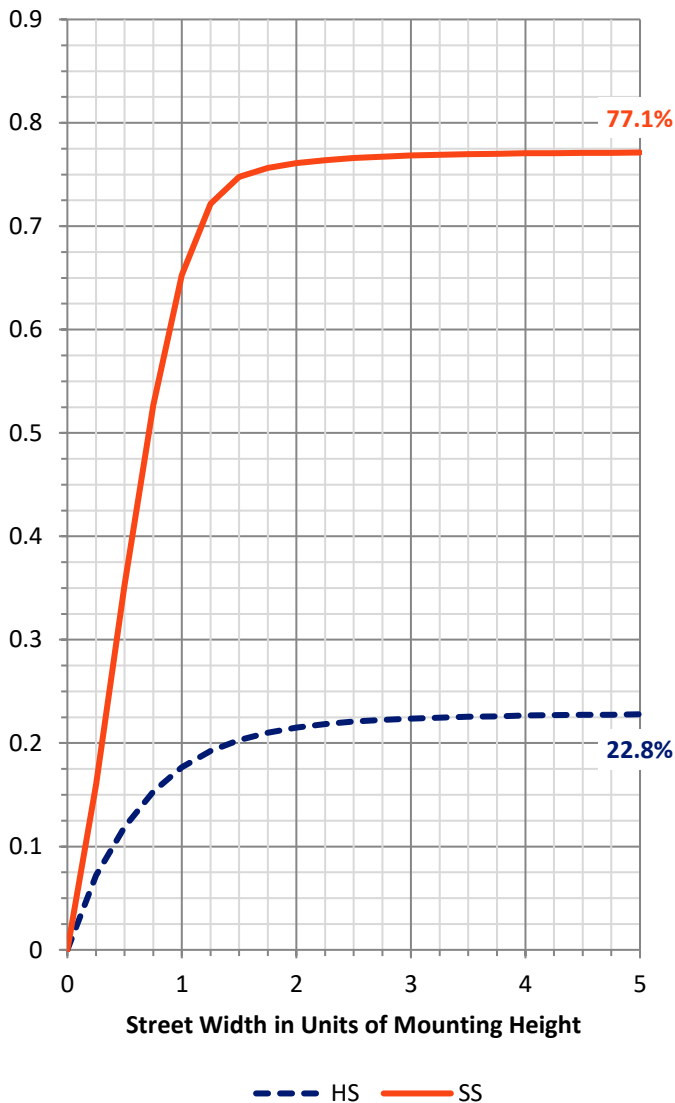
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5961.1	0.0	5961.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20057.8	0.0	20057.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	26018.9	0.0	26018.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.6
10°-20°	1592.7	6.1
20°-30°	3088.1	11.9
30°-40°	5116.0	19.7
40°-50°	7158.3	27.5
50°-60°	6039.0	23.2
60°-70°	1840.7	7.1
70°-80°	645.8	2.5
80°-90°	112.3	0.4
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°	26018.9	100.0
0°-180°	26018.9	100.0



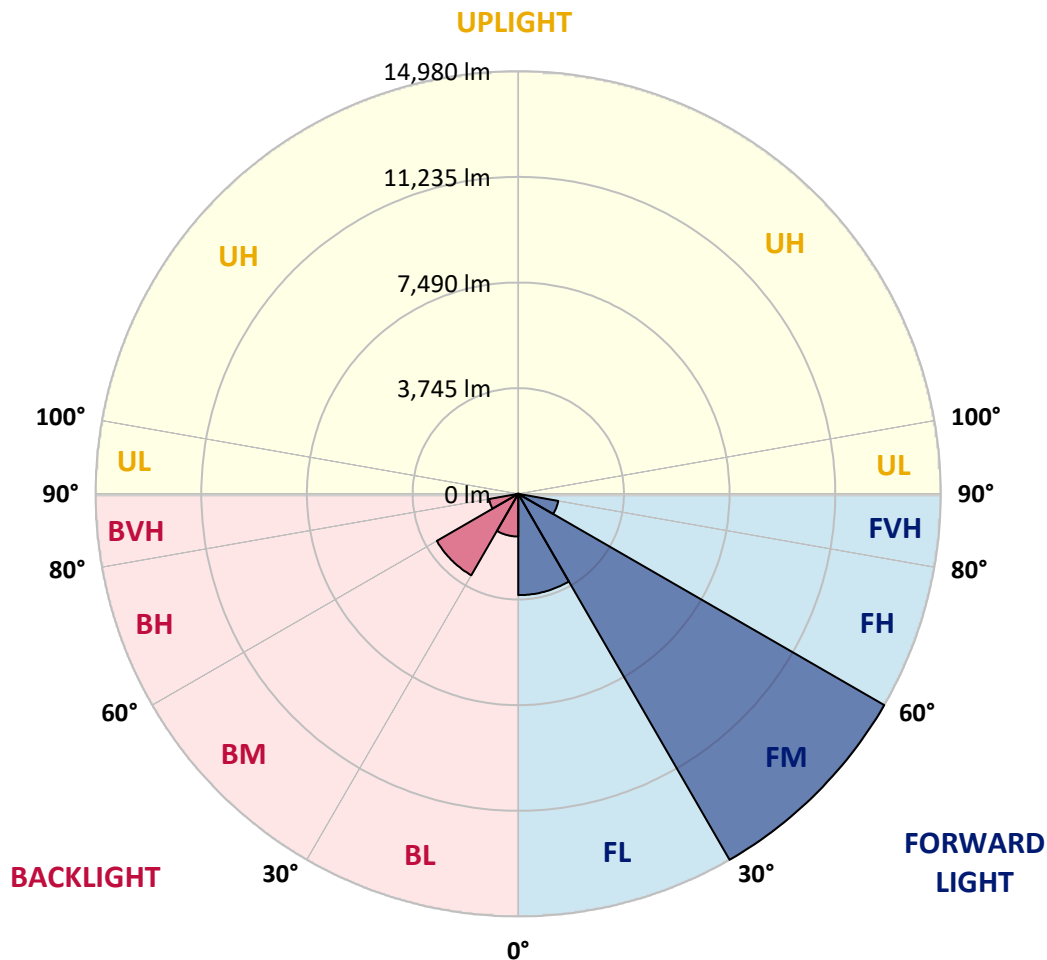
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3591.5	13.8			
FM (30°-60°)	14979.8	57.6			
FH (60°-80°)	1436.2	5.5			G1/1800
FVH (80°-90°)	50.3	0.2			G1/100
BL (0°-30°)	1515.3	5.8	B3/2500		
BM (30°-60°)	3333.5	12.8	B3/5000		
BH (60°-80°)	1050.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	62.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	4658.7	4629.8	4542.8	4513.9	4410.9	4224.1	4159.8	3969.8	3889.3	3815.2	3728.3
5°	5891.9	5756.6	5747.0	5582.8	5344.6	5206.1	4794.0	4517.1	4262.8	4133.9	3895.7
7.5°	6677.5	6680.7	6680.7	6545.4	6355.5	6004.6	5634.3	5135.2	4752.2	4562.2	4156.5
10°	7424.4	7360.0	7324.6	7311.7	7182.9	6841.6	6445.6	5827.5	5302.7	5080.6	4352.9
12.5°	7952.4	7897.7	7978.1	7936.3	7842.9	7620.8	7247.3	6542.2	5885.4	5586.0	4668.4
15°	8203.5	8242.1	8306.6	8422.4	8380.6	8296.9	7884.8	7276.2	6513.2	6175.2	4948.5
17.5°	8589.9	8483.7	8560.9	8705.8	8821.7	8783.1	8548.0	7807.5	7134.6	6719.3	5325.2
20°	8860.4	8799.1	8837.8	9005.2	9092.1	9311.0	9188.8	8502.9	7730.2	7292.4	5769.5
22.5°	9633.1	9542.9	9417.3	9443.1	9475.3	9629.8	9658.8	9266.0	8422.4	7958.8	6191.3
25°	10586.0	10502.3	10354.2	10202.9	10109.6	10080.6	10180.4	9864.8	9085.7	8606.0	6645.2
27.5°	11635.7	11493.9	11400.6	11088.3	10837.1	10798.5	10750.3	10579.6	9871.3	9352.9	7157.2
30°	12656.2	12543.5	12418.0	11919.0	11658.2	11616.3	11378.1	11426.3	10724.5	10148.2	7736.7
32.5°	13428.9	13438.6	13152.1	12775.4	12530.6	12308.5	12221.6	12360.0	11819.2	11355.5	8383.8
35°	14053.5	14082.5	13808.9	13467.6	13203.5	13358.1	13319.5	13383.8	13126.3	12559.7	9137.2
37.5°	14662.1	14517.2	14224.2	14060.0	13921.6	14175.9	14504.3	14559.1	14607.3	13940.8	10012.9
40°	14761.8	14774.8	14604.1	14720.0	14546.1	14929.3	15692.3	15621.5	15817.9	15235.1	10962.7
42.5°	14620.2	14649.1	14716.7	14881.0	15299.6	15759.9	16893.3	16603.4	16841.7	16323.4	11886.8
45°	14388.4	14269.2	14352.9	14977.5	15702.0	16725.8	17991.1	17765.7	17688.5	17253.8	12987.8
47.5°	13280.8	13403.2	13664.0	14433.5	15521.7	16893.3	18770.3	18718.7	18950.6	18644.7	13989.1
50°	11745.1	11696.8	12199.0	13065.1	14468.9	16564.8	18728.4	19195.2	19694.3	19269.3	14436.7
52.5°	8795.9	9053.5	9485.0	10560.3	12562.9	14774.8	17814.1	18593.2	18998.9	18908.7	14076.1
55°	5560.3	5637.5	5898.3	7176.5	8979.4	11857.8	15270.5	17076.8	17801.2	18139.2	13744.5
57.5°	2701.2	2556.4	2875.1	3902.2	5186.8	7975.0	11777.3	14874.5	16449.0	17060.6	13023.3
60°	1410.2	1464.9	1590.5	1957.5	2681.9	4140.4	7340.7	9913.1	12318.2	13258.3	9871.3
62.5°	1168.7	1188.0	1271.8	1455.3	1783.7	2382.5	3747.6	4832.6	6281.4	7128.1	5614.9
65°	991.6	1001.3	1091.4	1213.8	1423.1	1677.4	1928.5	2018.7	2443.7	2508.0	1996.1
67.5°	827.5	837.1	933.7	1049.6	1184.8	1252.4	1316.8	1310.4	1358.6	1339.4	1336.1
70°	637.5	647.1	747.0	869.3	936.9	898.3	1097.8	1142.9	1162.3	1178.4	1204.1
72.5°	460.4	479.7	557.0	644.0	608.5	698.6	904.7	972.3	998.1	1007.8	1039.9
75°	334.8	341.3	360.6	334.8	386.4	486.2	637.5	721.2	753.4	763.0	811.3
77.5°	148.1	151.3	154.6	193.2	247.9	302.7	379.9	447.5	492.6	505.4	518.4
80°	77.3	80.5	99.8	132.0	177.1	222.2	276.9	315.5	344.5	347.8	360.6
82.5°	48.3	51.6	70.8	93.4	125.6	164.2	202.8	235.1	257.6	260.8	264.0
85°	22.5	29.0	41.9	57.9	83.7	106.2	109.5	93.4	99.8	103.0	96.5
87.5°	6.5	9.7	12.9	9.7	12.9	12.9	16.1	19.3	19.3	19.3	22.5
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°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	3680.0	3651.0	3538.3	3496.5	3387.0	3406.3	3348.4	3345.2	3332.3	3329.1	3325.8
5°	3770.1	3680.0	3544.8	3441.7	3380.6	3374.2	3332.3	3332.3	3345.2	3354.8	3332.3
7.5°	3918.2	3815.2	3586.6	3490.1	3435.3	3425.6	3396.7	3374.2	3403.1	3393.4	3367.7
10°	4088.9	3908.6	3667.1	3583.4	3493.3	3470.7	3470.7	3480.4	3432.1	3448.2	3422.4
12.5°	4278.8	4037.4	3770.1	3673.6	3567.4	3554.4	3548.0	3477.2	3502.9	3490.1	3425.6
15°	4520.3	4185.5	3902.2	3738.0	3647.8	3589.9	3506.1	3493.3	3477.2	3445.0	3416.0
17.5°	4781.1	4346.5	3963.3	3757.3	3622.0	3580.2	3515.8	3448.2	3399.9	3406.3	3383.8
20°	5003.3	4494.6	3985.8	3776.6	3602.8	3522.3	3422.4	3380.6	3329.1	3325.8	3322.6
22.5°	5267.3	4694.2	4018.0	3725.0	3544.8	3461.1	3393.4	3319.4	3284.0	3238.9	3261.5
25°	5582.8	4771.4	4024.5	3696.1	3502.9	3354.8	3319.4	3238.9	3226.1	3161.7	3174.5
27.5°	5811.4	4813.3	3973.0	3606.0	3406.3	3293.6	3229.3	3171.3	3148.8	3100.4	3087.6
30°	6117.3	4877.7	3863.6	3493.3	3309.8	3184.2	3145.5	3132.6	3068.3	3016.8	3010.4
32.5°	6464.9	4919.5	3792.7	3377.4	3209.9	3113.4	3132.6	3071.5	2991.0	2945.9	2933.1
35°	6741.9	4935.7	3615.6	3245.3	3142.3	3081.2	3058.6	3045.8	2929.8	2888.0	2855.8
37.5°	7163.6	4900.3	3467.5	3152.0	3068.3	3045.8	3026.4	2939.5	2807.5	2746.3	2701.2
40°	7656.2	4890.6	3277.5	3019.9	2997.4	3023.2	2965.3	2830.0	2646.5	2578.9	2546.7
42.5°	8129.4	4958.2	3158.5	2949.1	2920.2	2929.8	2849.3	2646.5	2556.4	2517.7	2466.2
45°	8921.5	5099.8	2962.0	2839.7	2826.8	2820.4	2723.7	2511.3	2459.8	2411.5	2401.8
47.5°	9636.3	5006.5	2836.4	2727.0	2739.9	2704.5	2498.4	2430.8	2372.9	2324.5	2308.5
50°	9678.1	4784.3	2659.4	2640.1	2643.3	2582.1	2385.7	2340.7	2266.6	2234.4	2211.8
52.5°	9459.1	4420.5	2495.2	2501.6	2511.3	2411.5	2247.3	2215.1	2153.9	2108.8	2095.9
55°	8844.2	3853.9	2334.2	2359.9	2385.7	2195.8	2144.2	2063.7	2015.5	1951.0	1954.3
57.5°	7791.4	3103.7	2108.8	2150.7	2205.4	1996.1	1957.5	1857.7	1786.9	1735.4	1728.9
60°	5222.2	2208.6	1770.8	1786.9	1909.2	1825.5	1822.3	1722.5	1625.9	1580.8	1555.1
62.5°	3081.2	1687.0	1529.3	1513.2	1510.0	1558.3	1638.8	1603.4	1477.8	1390.8	1416.7
65°	1613.0	1458.5	1423.1	1368.3	1336.1	1323.2	1384.5	1400.5	1316.8	1223.5	1217.0
67.5°	1355.4	1355.4	1326.5	1307.2	1262.1	1207.3	1168.7	1117.2	1104.3	1078.6	1046.4
70°	1233.1	1265.3	1255.6	1210.5	1171.9	1110.8	1011.0	927.2	846.7	817.8	837.1
72.5°	1075.4	1107.5	1107.5	1085.0	1033.5	940.2	843.5	747.0	679.4	627.8	621.4
75°	827.5	843.5	882.2	856.4	788.8	730.8	631.0	531.3	466.8	418.6	408.9
77.5°	528.0	553.8	553.8	550.5	502.2	447.5	383.2	312.3	264.0	228.6	218.9
80°	350.9	367.0	379.9	367.0	334.8	293.0	244.7	196.4	161.0	132.0	125.6
82.5°	257.6	276.9	286.5	273.7	241.5	209.2	173.8	138.4	103.0	80.5	74.1
85°	99.8	103.0	115.9	138.4	135.2	132.0	106.2	77.3	57.9	41.9	38.6
87.5°	25.7	22.5	25.7	25.7	22.5	19.3	19.3	19.3	19.3	9.7	12.9
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)