

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: P652059

Luminaire Tested: **GALN-SA8A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26273.7 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

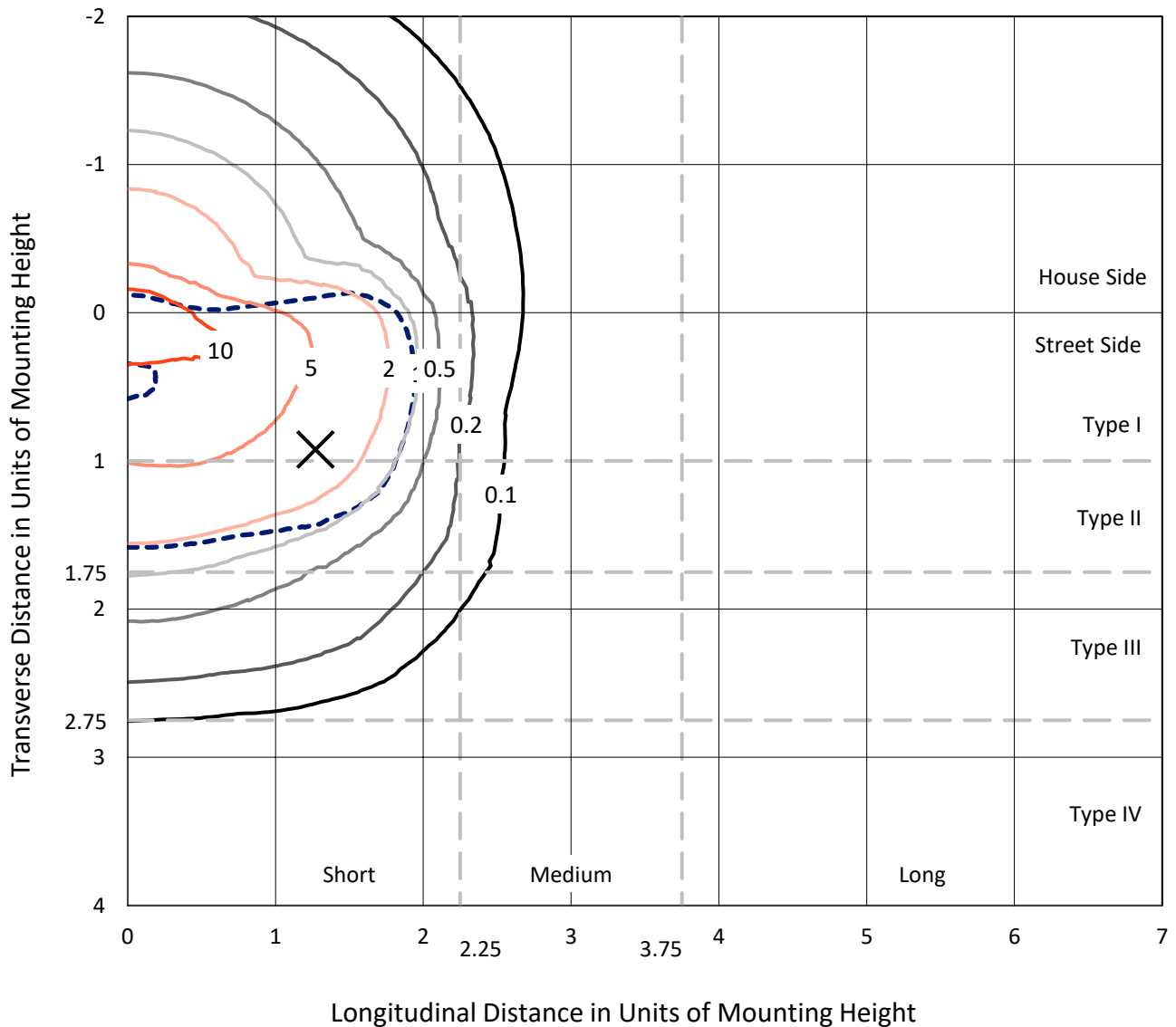
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652059
 CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

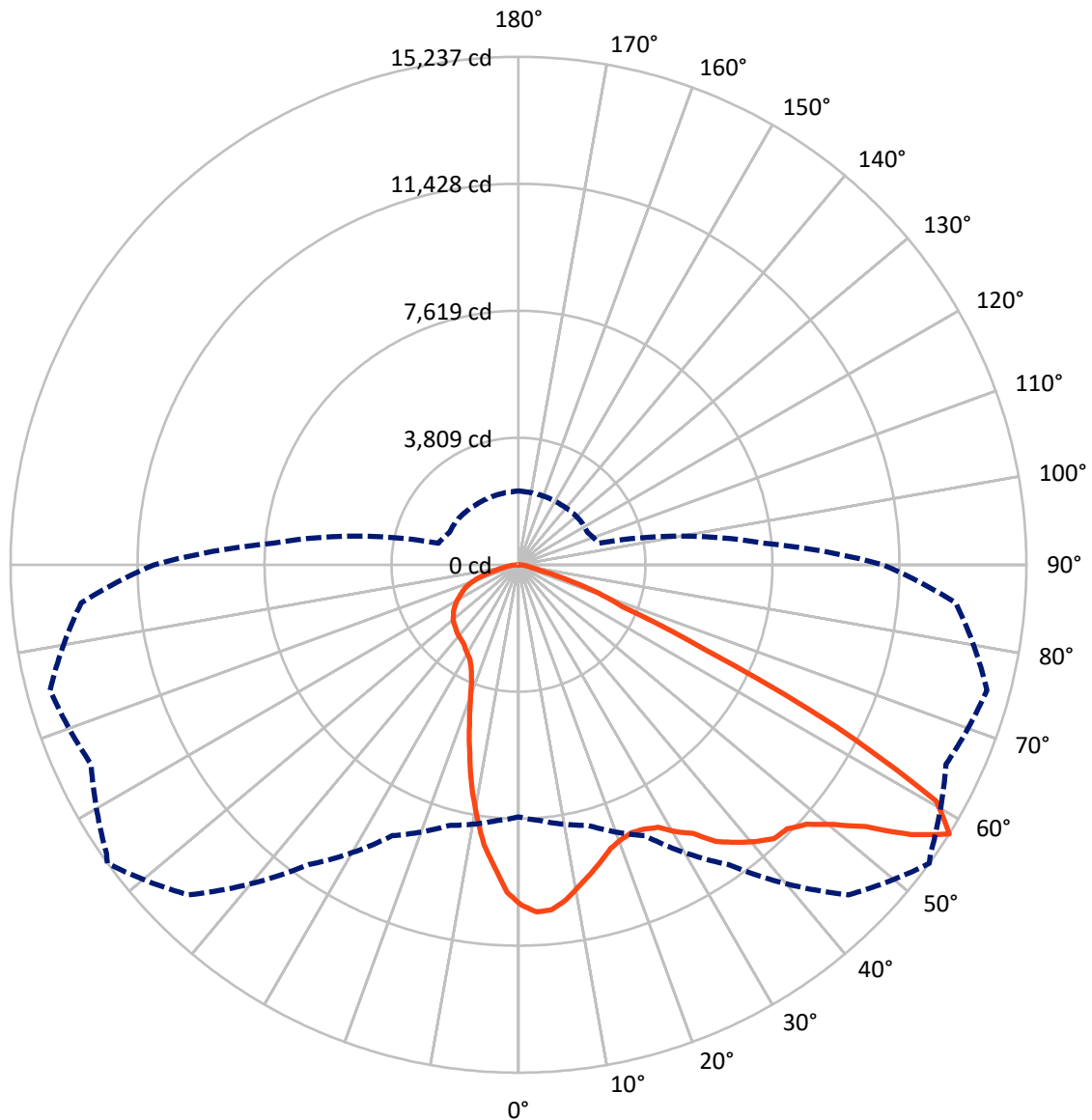
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

REPORT NUMBER: P652059
CATALOG NUMBER: GALN-SA8A-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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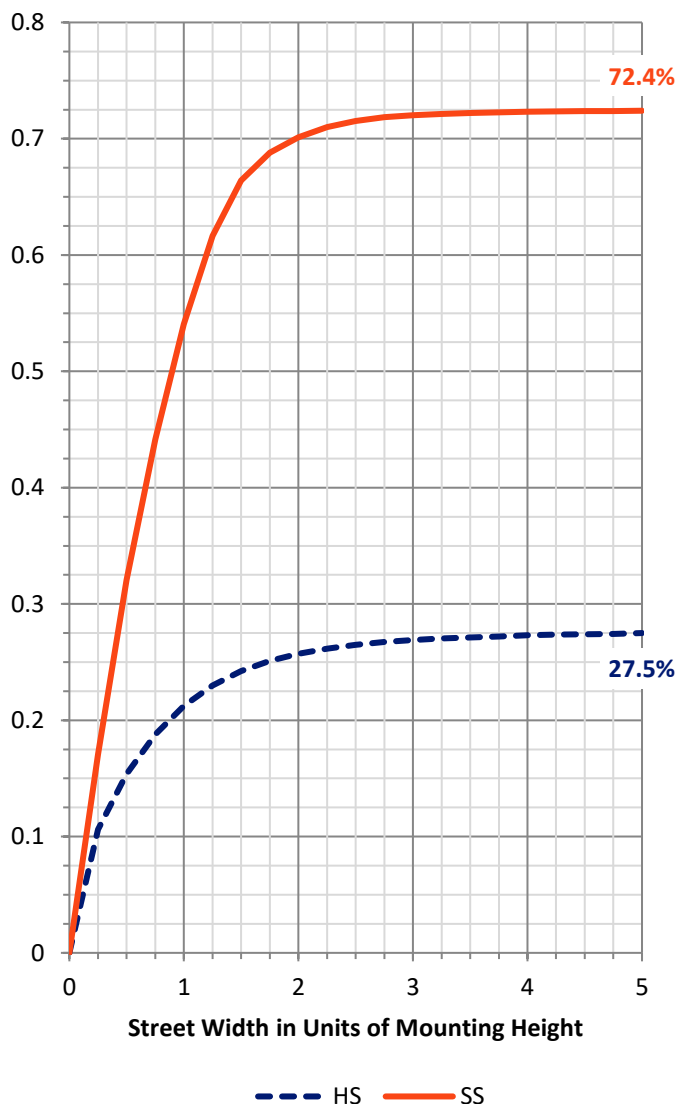
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7268.8	0.0	7268.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19004.9	0.0	19004.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	26273.7	0.0	26273.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.7	3.4
10°-20°	2039.2	7.8
20°-30°	2865.1	10.9
30°-40°	4005.4	15.2
40°-50°	5422.5	20.6
50°-60°	6604.8	25.1
60°-70°	3440.1	13.1
70°-80°	881.5	3.4
80°-90°	134.5	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°	26273.7	100.0
0°-180°	26273.7	100.0

Coefficient of Utilization



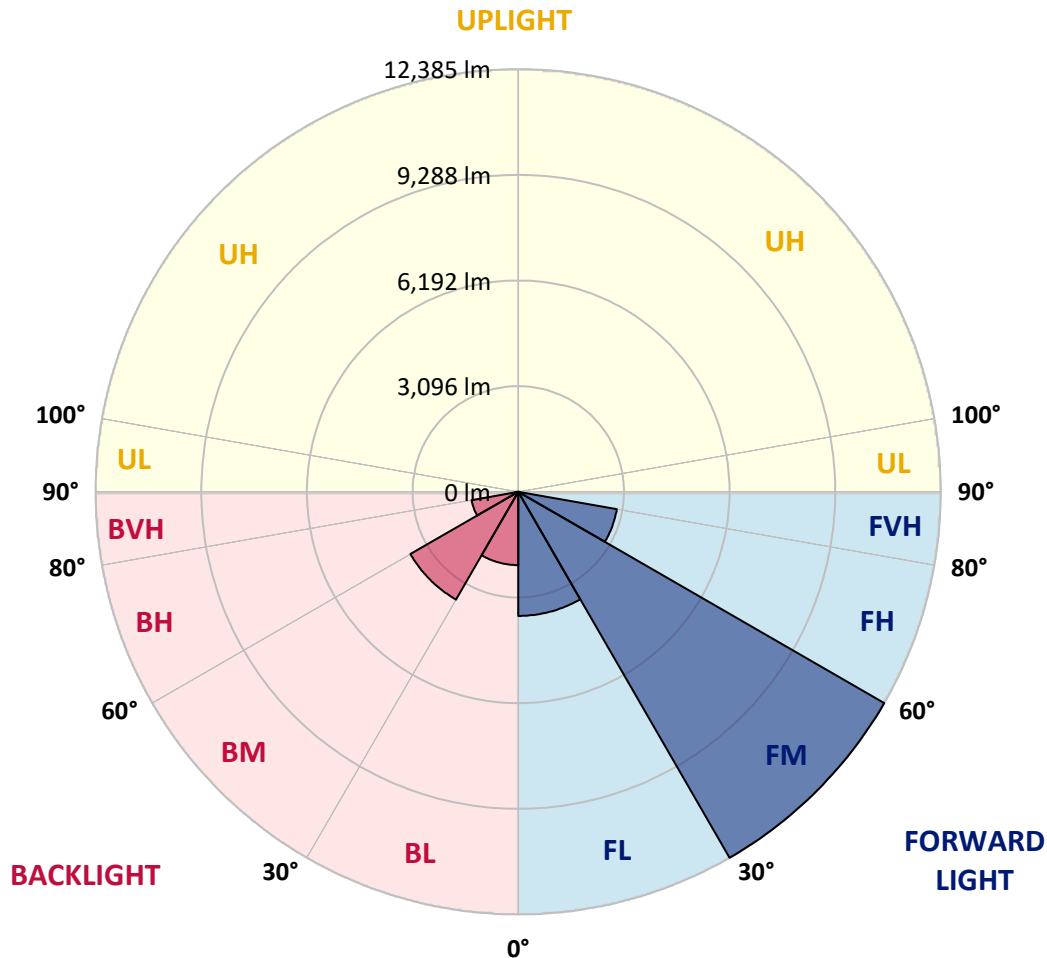
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.6	13.8			
FM (30°-60°)	12384.6	47.1			
FH (60°-80°)	2932.9	11.2			G2/5000
FVH (80°-90°)	50.8	0.2			G1/100
BL (0°-30°)	2148.3	8.2	B3/2500		
BM (30°-60°)	3648.1	13.9	B3/5000		
BH (60°-80°)	1388.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	83.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3
2.5°	10502.7	10462.2	10468.9	10522.9	10455.4	10428.4	10428.4	10296.7	10306.9	10215.6	10192.0
5°	10259.5	10165.0	10229.2	10310.2	10323.7	10350.8	10394.7	10360.9	10266.3	10168.4	10009.7
7.5°	9624.7	9709.1	9732.7	9790.2	9911.7	10023.1	10161.6	10067.1	10063.7	9965.8	9871.2
10°	9067.4	9016.8	9145.1	9229.6	9432.2	9617.9	9830.7	9820.5	9871.2	9759.7	9597.7
12.5°	8513.6	8473.1	8533.9	8726.4	9010.1	9280.2	9533.5	9439.0	9709.1	9688.8	9341.0
15°	7926.0	7956.4	8044.2	8223.2	8594.7	8918.9	9239.6	9243.1	9482.9	9563.9	9097.9
17.5°	7514.0	7480.2	7591.7	7858.5	8189.4	8577.8	8942.5	9016.8	9384.9	9432.2	9023.5
20°	7206.7	7254.0	7399.2	7534.3	7915.8	8385.3	8797.3	8824.3	9364.6	9493.0	8905.3
22.5°	7132.4	7105.4	7152.6	7372.1	7686.2	8196.1	8719.6	8820.9	9361.3	9472.7	8682.5
25°	7054.7	7142.5	7139.2	7358.7	7588.3	8044.2	8783.7	8895.3	9540.2	9577.4	8712.8
27.5°	7230.3	7220.2	7314.8	7331.7	7615.3	8084.7	8918.9	9003.3	9837.4	9807.1	8736.5
30°	7405.9	7355.3	7412.7	7611.9	7743.7	8317.7	9290.4	9283.5	10222.4	10202.2	8810.8
32.5°	7622.1	7598.4	7635.6	7811.2	8034.1	8628.4	9604.4	9803.6	10614.2	10742.5	9067.4
35°	7662.6	7760.5	7848.3	8084.7	8402.2	9131.6	10195.4	10360.9	11066.7	11468.5	9557.1
37.5°	7919.3	7956.4	8162.4	8581.1	8871.5	9803.6	10570.3	10674.9	11478.6	11934.5	10073.8
40°	8192.8	8236.7	8547.4	8986.4	9384.9	10242.7	10921.5	10955.2	11610.4	12292.6	10411.5
42.5°	8564.2	8604.8	8912.1	9462.6	9996.1	10617.5	11232.1	11269.3	11600.2	12704.6	10948.5
45°	8949.2	9047.2	9408.5	10033.3	10512.8	11056.5	11303.0	11455.0	11694.8	13072.7	11384.1
47.5°	9489.6	9580.8	9878.0	10489.2	11049.8	11441.6	11630.6	11779.2	11921.1	13393.5	11664.4
50°	10063.7	10080.6	10441.9	10995.7	11407.7	11877.2	12241.9	12292.6	12218.3	13765.0	12140.6
52.5°	10485.8	10539.8	10820.1	11360.5	11975.1	12552.6	13052.4	13106.4	12961.2	13903.4	12302.7
55°	9786.8	9756.4	10212.3	10931.6	12356.7	13558.9	14285.1	14325.6	13501.6	14332.3	12832.9
57.5°	7564.6	7709.9	8098.2	8966.2	10978.8	14004.8	15237.4	15092.2	14149.9	14548.5	13170.6
60°	5497.9	5464.1	5724.2	6305.0	8273.8	12069.7	14406.6	14555.2	13619.7	13113.2	10860.7
62.5°	4478.0	4430.7	4451.0	4471.3	5339.2	8010.4	10664.8	10661.4	10489.2	9425.4	7324.9
65°	3579.7	3691.1	3701.2	3853.2	3964.7	4785.3	6180.1	6511.0	5670.1	4650.2	3373.7
67.5°	2698.3	2657.7	2792.9	3333.1	3542.5	3454.7	3373.7	3410.8	2424.8	1749.4	1648.0
70°	1590.6	1573.7	1735.8	2323.4	2917.8	2745.5	2542.9	2546.3	1664.9	1222.5	1361.0
72.5°	871.3	867.9	901.7	1178.6	1658.1	1722.3	1526.4	1573.7	992.9	989.5	1063.8
75°	486.3	476.2	466.0	520.1	597.8	631.5	645.0	651.8	682.1	763.2	793.7
77.5°	179.0	172.2	172.2	199.2	253.3	317.5	401.9	408.6	482.9	553.8	584.2
80°	60.8	67.5	91.2	125.0	168.9	226.2	273.6	280.3	341.1	388.4	398.5
82.5°	37.2	40.5	60.8	87.8	121.6	158.7	202.6	206.0	253.3	283.7	297.2
85°	16.9	20.3	33.8	54.0	77.7	104.7	108.1	108.1	104.7	108.1	101.3
87.5°	0.0	0.0	6.7	6.7	6.7	10.1	13.5	10.1	16.9	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652059

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3	10212.3
2.5°	10121.1	10083.9	9969.1	9867.8	9837.4	9702.4	9503.1	9526.8	9381.5	9449.1	9378.2
5°	9982.7	9857.7	9563.9	9439.0	9111.4	8962.8	8861.4	8608.1	8490.0	8466.3	8365.0
7.5°	9628.0	9550.4	9182.3	8844.5	8496.7	8199.6	7817.9	7557.9	7372.1	7321.5	7172.9
10°	9347.7	9175.5	8665.6	8152.2	7655.8	7139.2	6642.7	6254.3	6065.2	5845.7	5771.4
12.5°	9070.9	8810.8	8121.9	7463.4	6821.7	6169.9	5568.8	5096.0	4684.0	4586.1	4552.3
15°	8898.6	8446.1	7635.6	6842.0	5930.1	5079.1	4478.0	4167.3	3914.0	3809.3	3883.7
17.5°	8672.3	8145.5	7169.5	6112.5	5109.5	4326.0	3822.8	3630.3	3539.2	3549.3	3518.9
20°	8388.6	7861.8	6558.3	5450.6	4376.7	3752.0	3464.9	3393.9	3407.5	3431.1	3421.0
22.5°	8186.0	7517.4	6115.9	4775.2	3782.3	3434.5	3316.3	3265.6	3309.5	3329.8	3313.0
25°	8030.7	7223.6	5578.9	4177.4	3437.8	3255.5	3201.4	3198.1	3265.6	3292.7	3275.8
27.5°	7888.8	6950.0	5045.3	3721.5	3208.2	3117.1	3100.2	3140.7	3184.6	3211.6	3235.2
30°	7804.4	6740.6	4545.5	3339.9	3093.4	3049.5	3019.1	3056.3	3079.9	3106.9	3093.4
32.5°	7885.5	6592.1	4062.6	3123.8	2998.8	2954.9	2995.5	2971.8	3012.4	3036.0	2998.8
35°	8138.8	6460.3	3718.1	3009.0	2890.8	2907.7	2914.4	2904.3	2921.1	2900.9	2944.8
37.5°	8388.6	6413.0	3400.8	2911.0	2840.1	2840.1	2833.3	2813.1	2846.9	2840.1	2860.4
40°	8706.1	6443.5	3130.5	2806.3	2792.9	2786.1	2759.1	2755.7	2742.2	2745.5	2752.3
42.5°	8983.1	6511.0	2975.2	2738.8	2749.0	2762.4	2711.8	2671.3	2688.2	2654.4	2654.4
45°	9276.8	6571.8	2836.8	2691.5	2681.4	2678.0	2637.5	2613.8	2600.4	2603.7	2634.1
47.5°	9739.5	6659.6	2732.1	2627.4	2634.1	2583.5	2573.3	2542.9	2556.5	2576.7	2580.1
50°	10067.1	6845.3	2651.0	2553.1	2576.7	2542.9	2482.1	2468.7	2468.7	2502.4	2495.7
52.5°	10296.7	7105.4	2573.3	2472.0	2482.1	2455.1	2434.9	2404.5	2384.2	2431.5	2455.1
55°	10999.1	7537.6	2553.1	2404.5	2401.1	2374.1	2337.0	2306.5	2296.4	2303.2	2350.4
57.5°	10931.6	7402.6	2488.9	2286.3	2279.5	2242.4	2205.3	2195.1	2191.7	2198.5	2212.0
60°	8875.0	5467.5	2222.1	2151.2	2141.1	2134.3	2097.2	2056.7	2036.4	2056.7	2039.8
62.5°	5872.7	3660.8	1958.7	1989.1	1995.9	1979.0	1918.2	1877.6	1884.4	1908.1	1870.9
65°	2884.0	2151.2	1776.4	1857.4	1864.2	1816.9	1759.5	1712.2	1688.6	1708.8	1691.9
67.5°	1648.0	1644.7	1627.8	1712.2	1708.8	1661.5	1570.3	1529.8	1489.3	1496.1	1485.9
70°	1398.1	1425.2	1458.9	1509.6	1506.1	1452.2	1344.1	1313.6	1256.3	1249.6	1232.7
72.5°	1101.0	1148.2	1222.5	1259.6	1229.3	1161.7	1090.8	1040.1	989.5	959.1	969.3
75°	817.3	884.8	925.4	949.0	901.7	864.5	807.1	746.3	685.6	658.5	648.4
77.5°	594.3	614.6	651.8	668.7	638.2	601.1	567.3	506.5	449.2	412.0	401.9
80°	415.4	428.9	455.9	455.9	455.9	439.0	395.1	334.3	297.2	263.4	256.7
82.5°	290.4	303.9	330.9	317.5	314.0	293.8	266.8	219.5	179.0	155.3	148.6
85°	101.3	111.4	135.1	162.1	172.2	168.9	152.0	121.6	94.5	77.7	70.9
87.5°	23.6	23.6	27.0	23.6	23.6	27.0	23.6	23.6	23.6	16.9	13.5
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)