

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: P534195

Luminaire Tested: **GALN-SA9C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33496 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 481
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



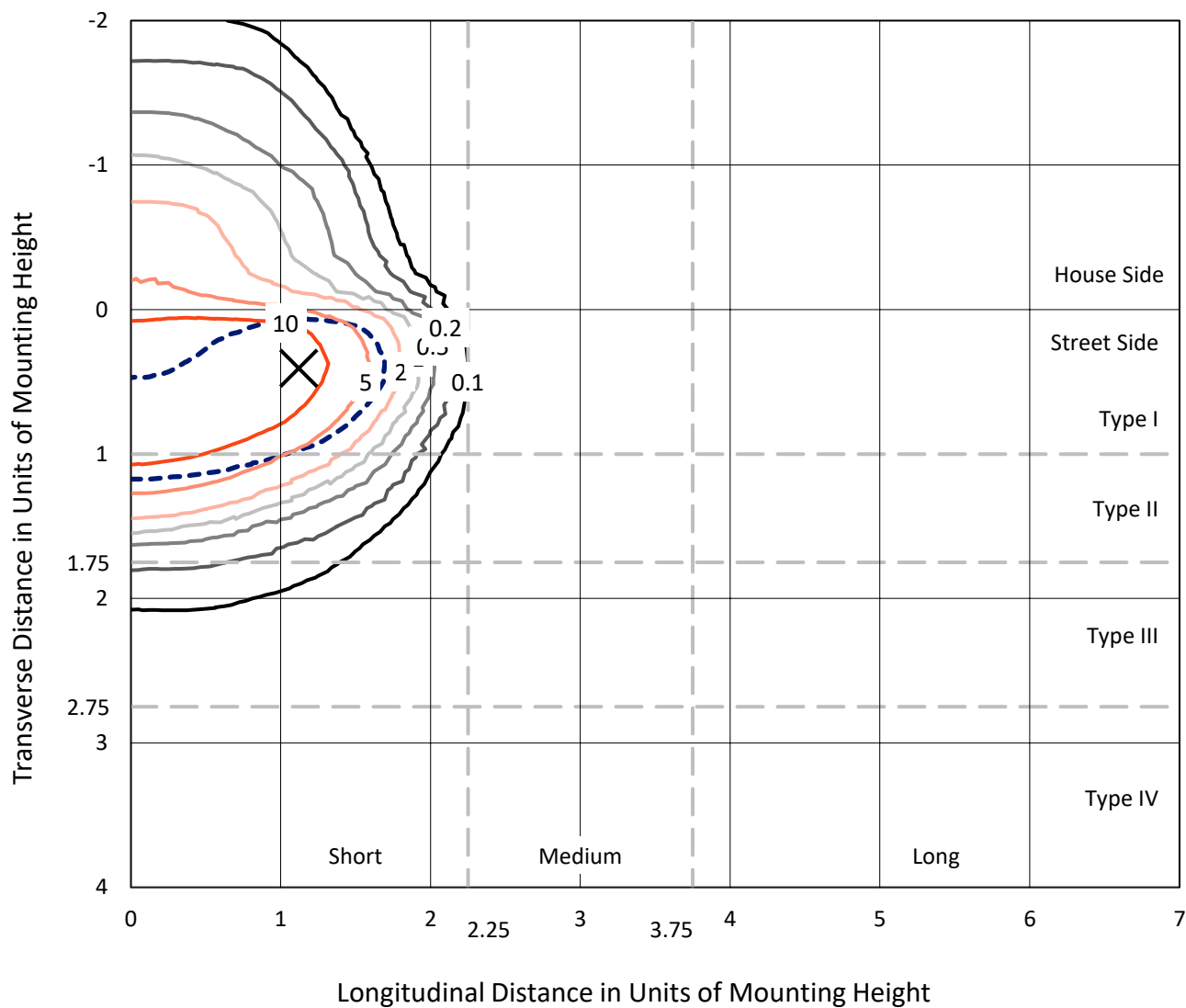
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



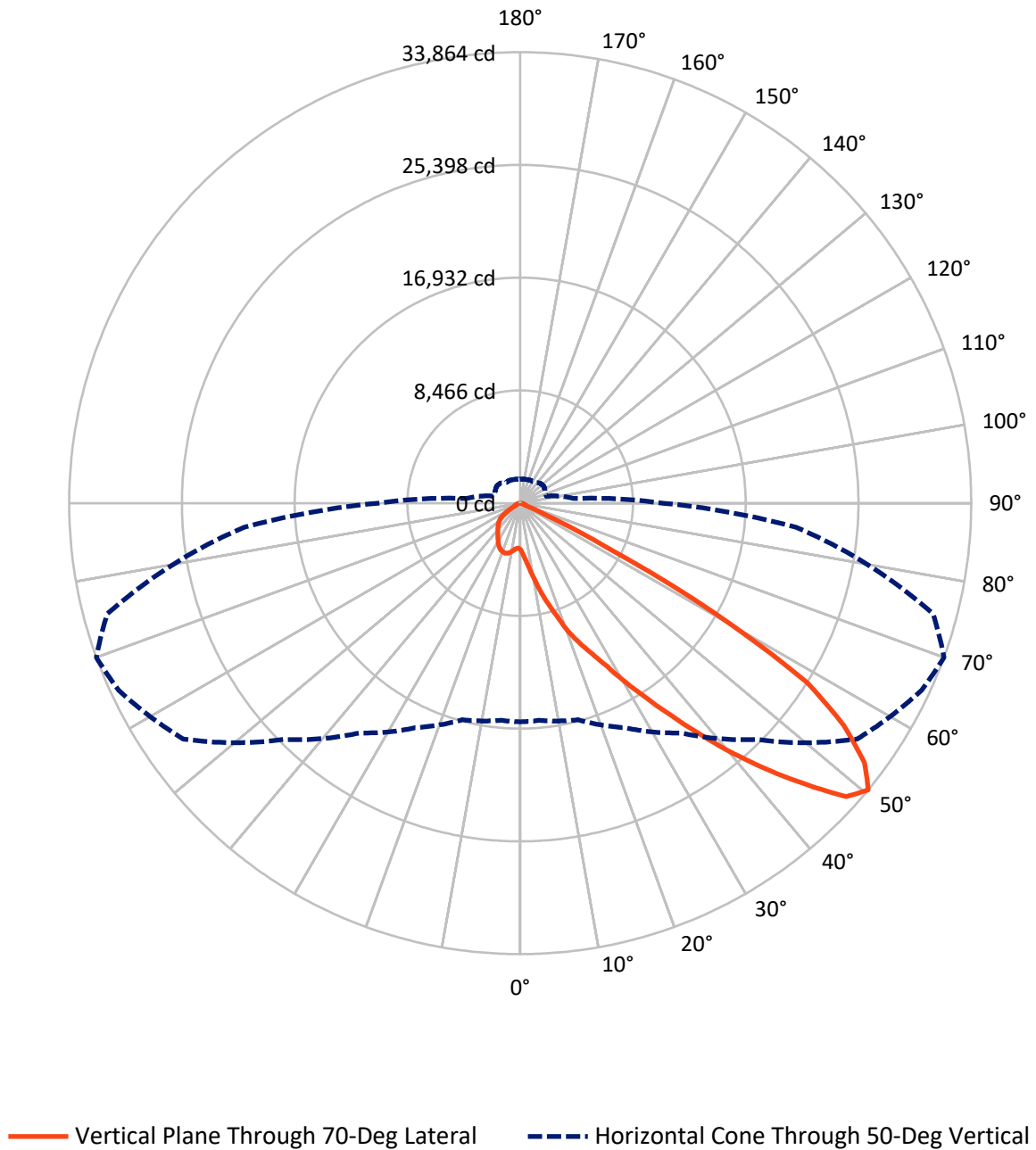
Based on 25 foot mounting height. Maximum calculated value = 19.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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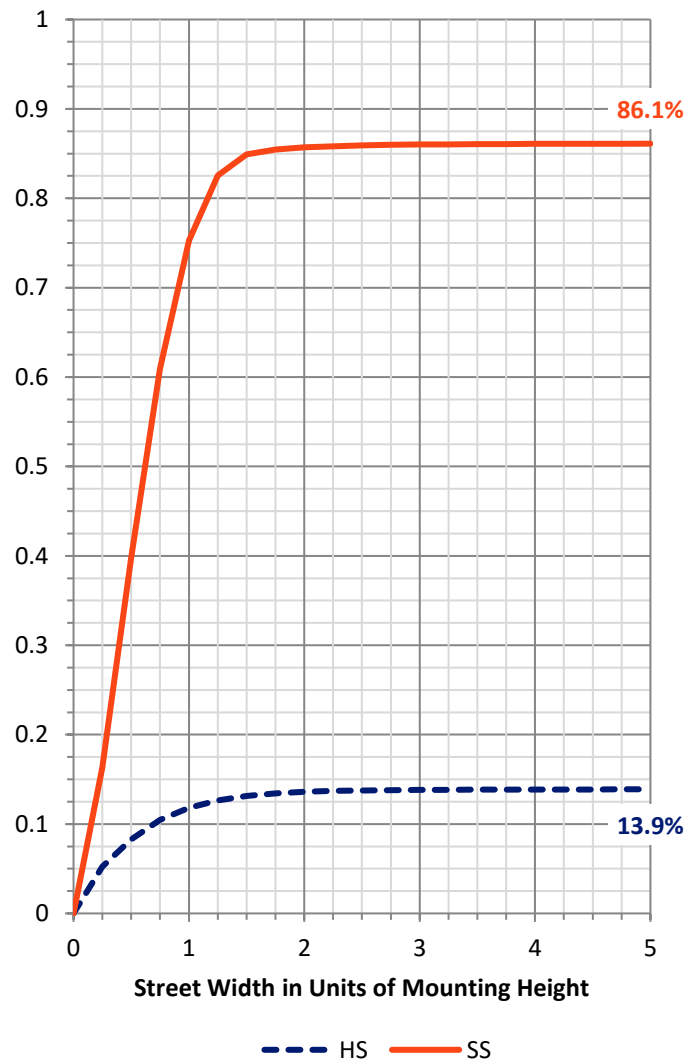
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.9	0.0	4677.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28818.1	0.0	28818.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	33496.0	0.0	33496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	1.3
10°-20°	1951.6	5.8
20°-30°	4094.1	12.2
30°-40°	7056.8	21.1
40°-50°	10313.5	30.8
50°-60°	8032.5	24.0
60°-70°	1360.9	4.1
70°-80°	187.0	0.6
80°-90°	48.4	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°	33496.0	100.0
0°-180°	33496.0	100.0

Coefficient of Utilization



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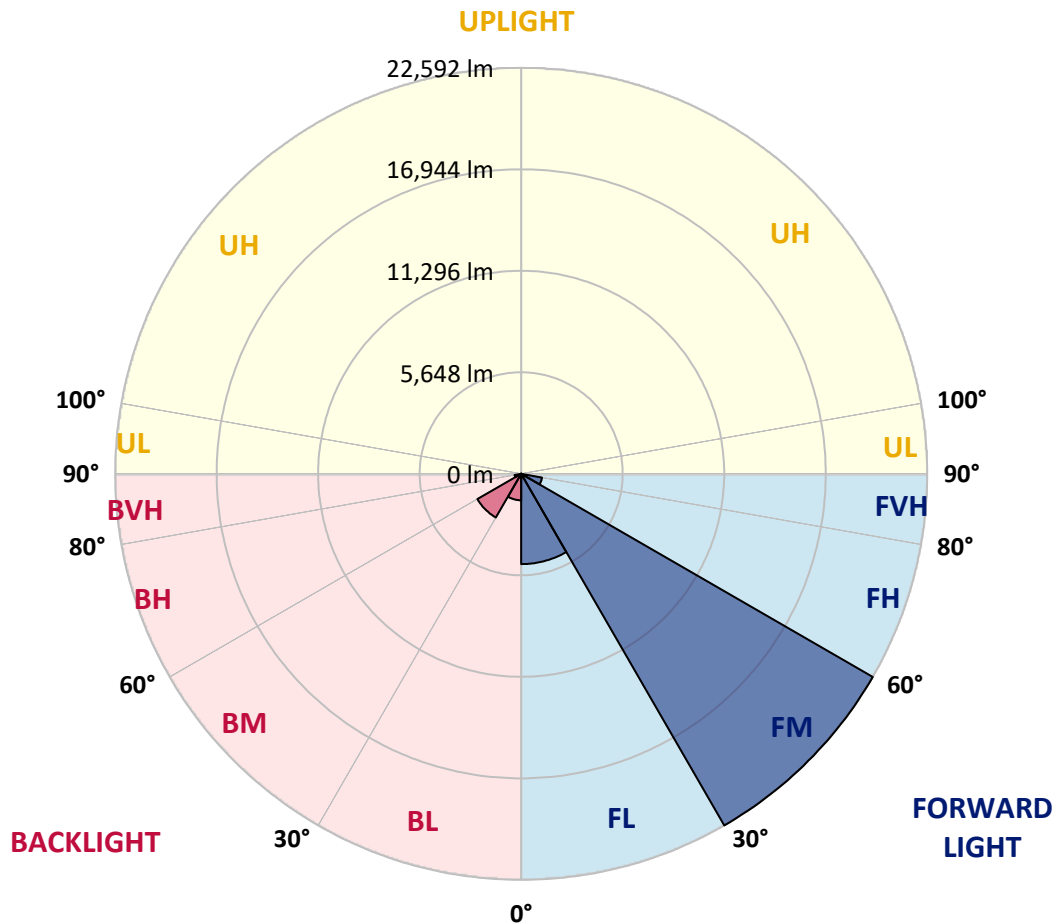
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5024.8	15.0			
FM	(30°-60°)	22592.5	67.4			
FH	(60°-80°)	1178.4	3.5			G1/1800
FVH	(80°-90°)	22.4	0.1			G1/100
BL	(0°-30°)	1472.0	4.4	B3/2500		
BM	(30°-60°)	2810.3	8.4	B3/5000		
BH	(60°-80°)	369.5	1.1	B1/500		G1/500
BVH	(80°-90°)	26.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5
2.5°	4543.4	4510.4	4438.8	4306.6	4251.5	4119.4	4042.3	3893.6	3800.0	3695.3	3579.7
5°	6399.3	6228.6	6124.0	5975.3	5540.2	5270.4	4824.3	4444.3	4268.1	4075.3	3811.0
7.5°	8315.8	8205.7	8062.5	7743.1	7445.7	6884.0	6118.5	5281.4	4923.4	4593.0	4069.8
10°	9901.9	9593.5	9577.0	9340.2	9015.3	8343.4	7423.7	6382.8	5744.0	5259.4	4438.8
12.5°	11008.9	10728.0	10854.7	10827.1	10524.2	9907.4	8844.5	7467.7	6801.4	6046.9	4818.8
15°	12016.7	11901.0	11862.5	11829.4	11708.3	11251.2	10298.4	8789.5	7825.7	6917.0	5248.3
17.5°	13002.5	12705.1	12848.3	12875.8	12864.8	12451.7	11559.6	10045.1	8910.6	7836.7	5699.9
20°	13878.1	13905.6	13712.9	13674.3	13641.3	13624.8	12754.6	11289.7	10243.4	8800.5	6289.2
22.5°	15001.6	14808.8	14979.5	14869.4	14654.6	14522.4	13856.1	12391.2	11399.9	9962.5	6889.5
25°	16328.8	16483.0	16081.0	16036.9	15800.1	15343.0	14742.7	13624.8	12512.3	11041.9	7539.3
27.5°	17964.4	17694.6	17589.9	17347.6	16918.1	16725.3	16020.4	14896.9	13856.1	12176.4	8167.2
30°	19368.8	19297.2	18774.0	18487.6	18113.1	18107.6	17121.8	16620.7	15607.4	13955.2	9031.8
32.5°	20514.3	20200.4	20007.6	19809.3	19506.4	19589.1	18757.5	18493.1	17474.3	15607.4	10050.6
35°	21279.8	21054.0	20938.3	20635.4	20547.3	20916.3	20569.3	20459.2	19622.1	17931.4	11245.7
37.5°	21522.1	21593.7	21571.6	21191.6	21378.9	22375.7	22821.8	22535.4	22094.8	20382.1	12539.9
40°	21736.9	21786.4	21676.3	22122.4	22656.6	23791.0	25404.6	24931.0	24765.8	22865.8	14340.7
42.5°	21858.0	21819.5	21819.5	22590.5	23400.0	25680.0	27899.4	27585.5	27458.8	25509.3	16422.4
45°	21334.8	20960.3	21362.4	22408.7	24038.9	26610.7	29893.0	30328.1	30146.3	28653.9	18856.6
47.5°	19379.8	19611.1	19836.9	21235.7	23262.3	26324.3	31115.6	32597.0	32933.0	31297.3	20453.7
50°	16422.4	16372.9	16841.0	18603.3	21065.0	25090.7	30878.8	33252.4	33863.7	32090.4	20789.6
52.5°	11945.1	12308.6	12815.2	14566.5	17485.3	21896.6	27822.3	31561.7	32376.7	31115.6	20569.3
55°	6955.6	6553.5	7693.5	9175.0	11928.6	16516.0	23521.2	27976.5	29485.5	29342.3	19456.9
57.5°	2786.6	2698.5	3089.5	4163.4	6223.1	10237.9	17105.3	22987.0	25404.6	26875.1	17099.8
60°	1222.6	1195.1	1404.3	1696.2	2544.3	4719.7	9356.7	14296.7	16818.9	18779.5	11768.9
62.5°	881.1	870.1	974.8	1079.4	1343.8	2054.2	3932.1	5760.5	7181.4	8673.8	5270.4
65°	710.4	738.0	809.6	864.6	991.3	1140.0	1387.8	1602.6	1966.1	2037.7	1162.0
67.5°	578.3	600.3	666.4	726.9	749.0	616.8	638.8	561.7	561.7	501.2	402.0
70°	424.1	429.6	506.7	578.3	462.6	247.8	435.1	435.1	391.0	374.5	341.4
72.5°	313.9	319.4	380.0	358.0	181.7	154.2	319.4	352.5	319.4	302.9	275.4
75°	231.3	236.8	198.3	82.6	77.1	99.1	187.2	242.3	231.3	225.8	209.3
77.5°	44.1	33.0	27.5	38.6	55.1	82.6	121.2	148.7	154.2	165.2	154.2
80°	5.5	5.5	16.5	33.0	60.6	88.1	126.7	143.2	148.7	154.2	143.2
82.5°	0.0	5.5	16.5	33.0	60.6	82.6	110.1	126.7	137.7	143.2	137.7
85°	0.0	5.5	11.0	27.5	49.6	60.6	55.1	38.6	33.0	38.6	27.5
87.5°	0.0	0.0	5.5	5.5	11.0	11.0	11.0	11.0	11.0	11.0	11.0
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°	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5	3469.5
2.5°	3513.6	3491.6	3414.5	3331.8	3260.3	3293.3	3260.3	3232.7	3243.7	3232.7	3221.7
5°	3706.3	3607.2	3442.0	3370.4	3309.8	3304.3	3287.8	3282.3	3287.8	3287.8	3238.2
7.5°	3888.1	3728.4	3552.1	3475.0	3403.4	3408.9	3370.4	3370.4	3364.9	3337.4	3326.3
10°	4163.4	3948.7	3722.9	3585.2	3497.1	3480.5	3442.0	3403.4	3403.4	3403.4	3348.4
12.5°	4466.3	4196.5	3888.1	3728.4	3623.7	3541.1	3480.5	3469.5	3408.9	3397.9	3370.4
15°	4730.7	4389.2	3998.2	3777.9	3645.8	3535.6	3442.0	3381.4	3353.9	3337.4	3315.3
17.5°	4989.5	4554.4	4058.8	3777.9	3634.7	3508.1	3408.9	3353.9	3287.8	3298.8	3254.7
20°	5336.5	4730.7	4075.3	3706.3	3530.1	3408.9	3276.8	3249.2	3210.7	3177.6	3188.7
22.5°	5672.4	4857.3	4025.8	3618.2	3364.9	3221.7	3155.6	3122.6	3106.1	3078.5	3040.0
25°	5975.3	4995.0	3948.7	3458.5	3188.7	3084.0	3023.4	3017.9	2979.4	2979.4	2907.8
27.5°	6283.7	5044.6	3816.5	3271.3	3034.5	2973.9	2946.3	2935.3	2918.8	2880.3	2830.7
30°	6636.2	5061.1	3623.7	3078.5	2896.8	2830.7	2869.2	2896.8	2825.2	2753.6	2775.6
32.5°	6928.0	5022.6	3392.4	2896.8	2797.6	2764.6	2841.7	2869.2	2786.6	2709.5	2671.0
35°	7280.5	4928.9	3166.6	2753.6	2698.5	2764.6	2830.7	2830.7	2665.5	2571.9	2549.8
37.5°	7814.7	4824.3	2957.4	2632.4	2593.9	2731.6	2819.7	2759.1	2500.3	2384.6	2357.1
40°	8387.4	4758.2	2753.6	2511.3	2538.8	2676.5	2726.1	2538.8	2274.5	2202.9	2180.8
42.5°	9219.0	4626.0	2571.9	2406.6	2489.2	2599.4	2599.4	2263.5	2164.3	2125.8	2120.3
45°	10254.4	4532.4	2412.1	2318.5	2417.7	2445.2	2357.1	2120.3	2048.7	2037.7	2043.2
47.5°	10761.0	4350.7	2246.9	2213.9	2285.5	2291.0	2059.7	2004.6	1944.0	1927.5	1916.5
50°	10683.9	4025.8	2032.2	2076.2	2175.3	2120.3	1877.9	1889.0	1833.9	1828.4	1800.8
52.5°	10144.2	3513.6	1817.4	1922.0	2032.2	1872.4	1729.3	1718.2	1718.2	1646.6	1619.1
55°	8993.2	2830.7	1558.5	1690.7	1822.9	1575.1	1536.5	1525.5	1498.0	1431.9	1415.3
57.5°	7120.8	2076.2	1173.0	1316.2	1547.5	1338.2	1332.7	1283.2	1211.6	1162.0	1162.0
60°	4235.0	1195.1	738.0	804.0	1024.3	1084.9	1206.1	1184.0	1062.9	985.8	963.8
62.5°	1933.0	616.8	468.1	479.1	550.7	704.9	947.2	1095.9	925.2	793.0	782.0
65°	649.8	457.1	385.5	369.0	380.0	424.1	567.2	776.5	738.0	611.3	589.3
67.5°	396.5	407.5	363.5	335.9	335.9	330.4	324.9	352.5	435.1	424.1	429.6
70°	341.4	374.5	335.9	302.9	291.9	275.4	231.3	192.8	165.2	192.8	203.8
72.5°	275.4	297.4	286.4	258.8	231.3	209.3	165.2	126.7	93.6	82.6	82.6
75°	203.8	220.3	231.3	198.3	176.2	148.7	121.2	82.6	49.6	33.0	33.0
77.5°	148.7	165.2	170.7	154.2	132.2	104.6	77.1	55.1	27.5	11.0	11.0
80°	126.7	148.7	165.2	154.2	137.7	99.1	71.6	38.6	22.0	5.5	5.5
82.5°	121.2	148.7	165.2	148.7	132.2	93.6	71.6	44.1	16.5	5.5	5.5
85°	27.5	38.6	49.6	60.6	71.6	71.6	55.1	33.0	16.5	5.5	5.5
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	5.5	5.5	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)