

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: P648558

Luminaire Tested: **GALN-SA7B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24845.4 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 286
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

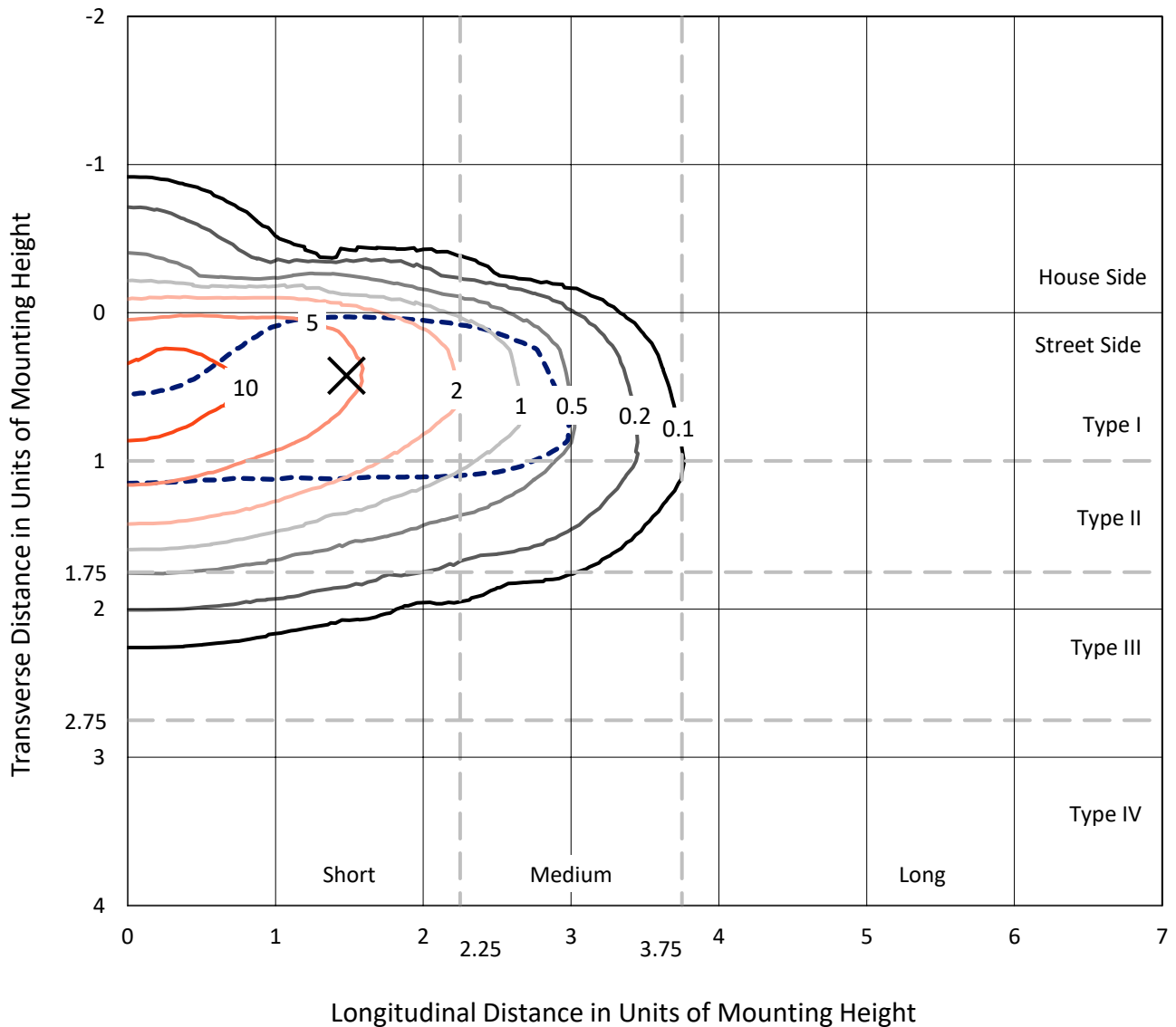




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Iso-Footcandle Lines of Horizontal Illumination

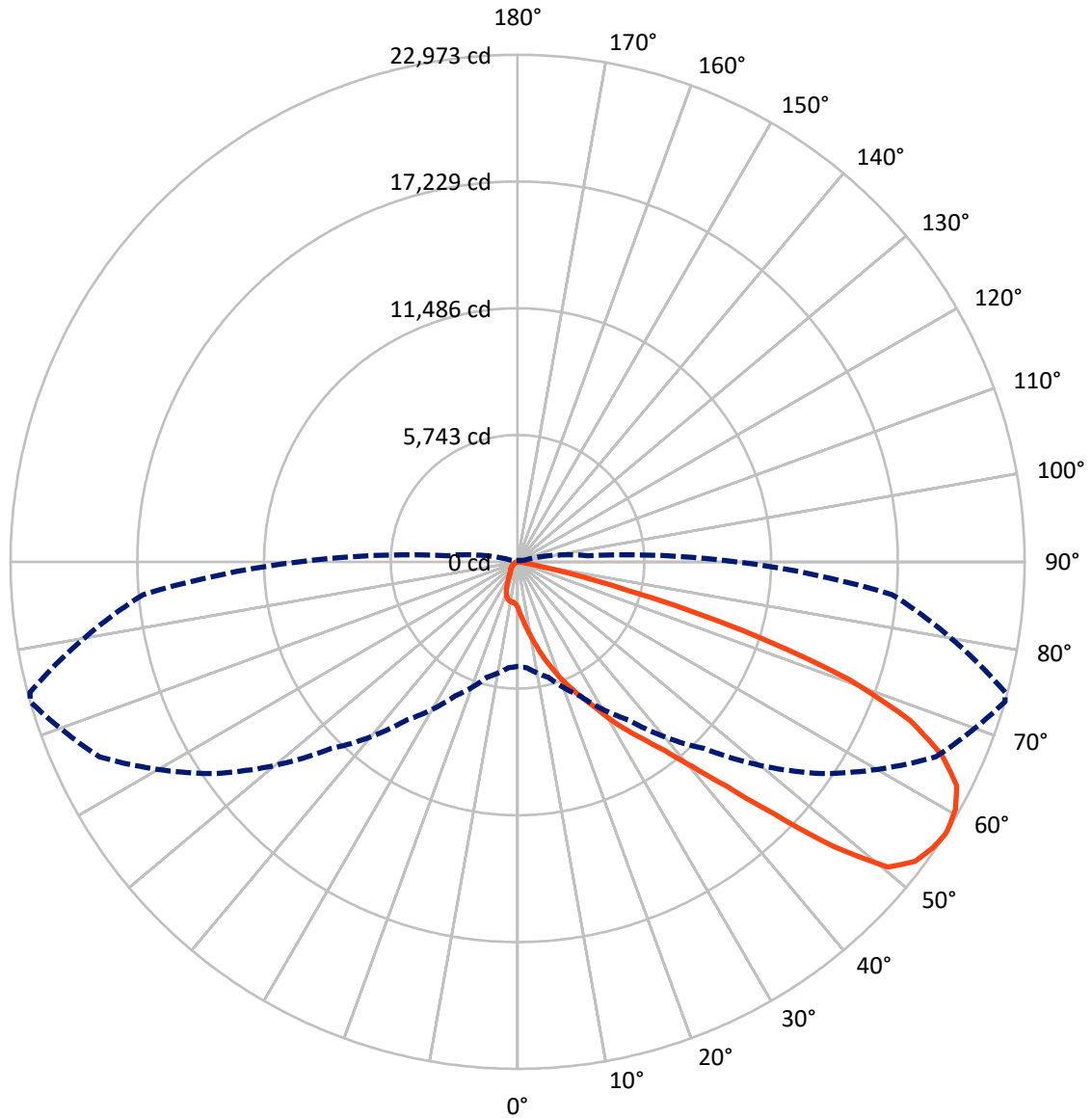
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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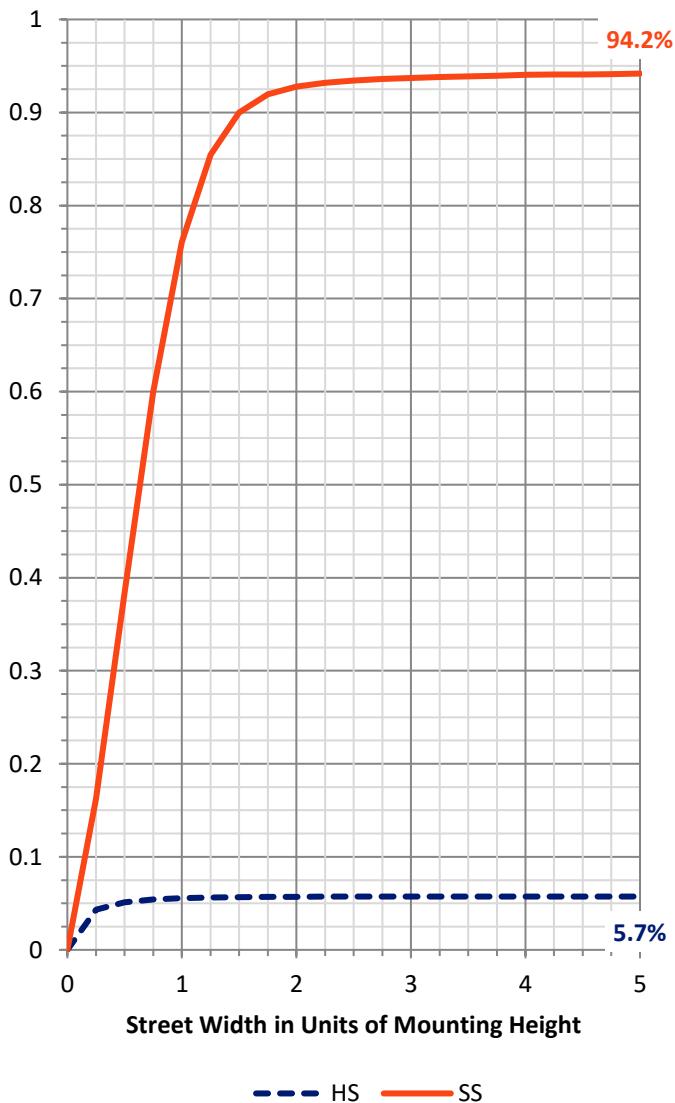
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1433.0	0.0	1433.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23412.4	0.0	23412.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	24845.4	0.0	24845.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.0
10°-20°	989.9	4.0
20°-30°	2118.2	8.5
30°-40°	3893.3	15.7
40°-50°	5968.5	24.0
50°-60°	6313.9	25.4
60°-70°	4123.1	16.6
70°-80°	1126.6	4.5
80°-90°	60.7	0.2
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°	24845.4	100.0
0°-180°	24845.4	100.0

Coefficient of Utilization



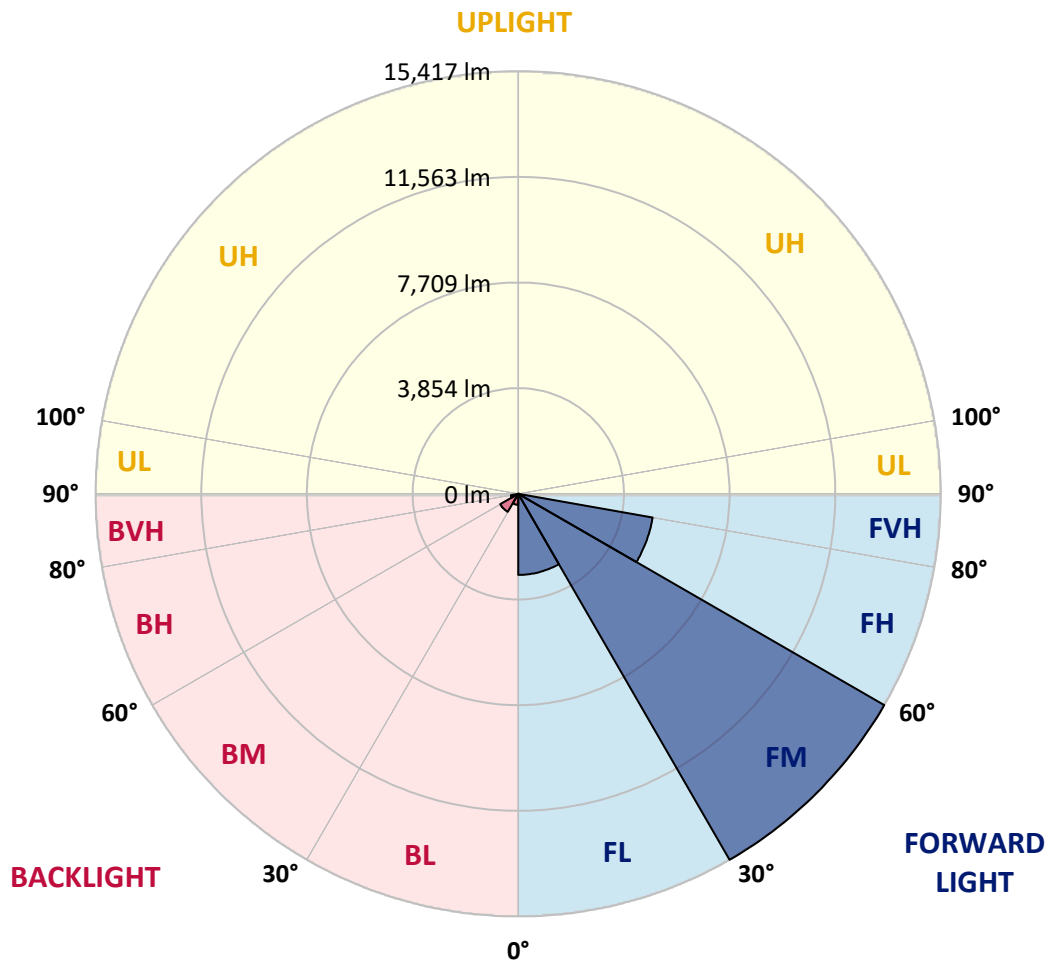
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.0	11.9			
FM (30°-60°)	15417.0	62.1			
FH (60°-80°)	4980.7	20.0			G2/5000
FVH (80°-90°)	55.6	0.2			G1/100
BL (0°-30°)	400.3	1.6	B1/500		
BM (30°-60°)	758.7	3.1	B1/1000		
BH (60°-80°)	269.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7
2.5°	3044.9	3017.4	2962.5	2943.6	2863.0	2737.8	2628.0	2480.5	2363.8	2351.8	2211.1
5°	4077.5	4015.7	3990.0	3866.5	3672.7	3490.8	3178.6	2941.9	2669.2	2648.6	2365.5
7.5°	5072.4	4986.6	4960.9	4844.3	4617.8	4331.3	3926.5	3495.9	3063.7	3024.3	2573.1
10°	5792.9	5804.8	5758.6	5681.4	5497.8	5206.2	4707.0	4118.7	3502.8	3453.1	2806.4
12.5°	6309.2	6307.5	6316.1	6314.3	6216.6	5995.3	5470.4	4792.8	3986.6	3888.8	3074.0
15°	6645.4	6650.6	6676.3	6765.5	6775.8	6638.6	6201.1	5437.8	4547.5	4425.7	3363.8
17.5°	6985.1	7021.1	7062.3	7146.3	7221.8	7166.9	6858.1	6110.2	5055.3	4964.4	3674.4
20°	7546.0	7595.7	7571.8	7623.2	7662.7	7667.8	7429.3	6731.2	5671.1	5518.4	4029.5
22.5°	8443.2	8441.4	8379.7	8287.0	8209.8	8206.4	7990.3	7369.3	6230.3	6082.7	4386.3
25°	9577.0	9582.2	9462.1	9197.9	9005.8	8770.8	8522.1	7928.5	6828.9	6647.1	4761.9
27.5°	10877.3	10844.7	10662.9	10299.2	9918.4	9517.0	9158.4	8578.6	7463.6	7312.7	5192.5
30°	12045.4	12033.5	11820.7	11376.4	10875.6	10472.5	9952.7	9393.5	8285.3	8100.1	5674.5
32.5°	13133.0	13150.2	12855.1	12395.4	11911.7	11446.8	10897.9	10172.3	9091.6	8829.1	6199.4
35°	13982.1	13999.3	13694.0	13311.4	12814.0	12428.0	11904.8	11002.5	9887.5	9666.2	6803.3
37.5°	14435.0	14457.3	14280.6	13992.4	13682.0	13488.1	13000.9	12071.2	10855.0	10721.1	7516.8
40°	14520.7	14546.5	14469.3	14392.1	14374.9	14513.9	14371.6	13330.3	12196.4	11987.2	8580.3
42.5°	14263.4	14297.7	14332.1	14503.6	14853.6	15363.0	15858.8	15038.8	13923.9	13642.5	9880.7
45°	13587.6	13584.2	13719.6	14164.0	14947.9	16035.4	17412.9	17177.9	16277.3	15942.8	11717.8
47.5°	12431.5	12414.3	12707.6	13340.6	14561.9	16159.0	18680.6	19775.0	19281.0	18972.2	13692.2
50°	10669.7	10753.8	11215.2	12098.7	13603.1	15785.0	19071.7	21478.4	21746.0	21418.3	15287.5
52.5°	8606.1	8602.7	9326.5	10525.6	12182.7	14961.6	18799.0	21787.1	22547.1	22296.6	16073.2
55°	6369.2	6413.9	7166.9	8376.2	10338.7	13458.9	17908.7	21469.8	22852.4	22675.8	16591.2
57°	4737.9	4816.8	5420.6	6700.3	8733.0	11971.7	16723.3	20902.0	22972.5	22876.4	17021.8
57.5°	4422.3	4425.7	5014.1	6177.1	8263.0	11400.5	16383.6	20665.3	22969.1	22915.9	17092.1
60°	2722.3	2808.1	3214.6	4175.3	6048.4	8897.7	14107.4	19305.0	22790.7	22867.8	17392.3
62.5°	1629.7	1665.7	1929.8	2516.5	3899.1	6494.4	11544.6	17563.9	22325.8	22560.8	17371.7
65°	1048.1	1056.7	1176.8	1523.2	2437.6	4389.7	8896.0	15263.6	21123.3	21555.6	16692.5
67.5°	809.7	823.4	871.4	1000.0	1413.5	2734.3	6292.0	12808.8	19178.0	19735.6	15045.7
70°	718.7	725.6	742.8	783.9	934.9	1543.8	3914.5	10005.9	15903.4	16061.2	11774.4
72.5°	586.7	605.5	658.7	672.4	741.0	964.0	2178.5	6715.7	10685.1	10724.6	6587.1
75°	454.6	458.0	536.9	576.4	624.4	663.8	972.6	3386.2	5132.4	4858.0	2538.8
77.5°	339.7	355.1	391.1	440.8	509.5	475.1	435.7	1276.2	1593.6	1564.4	737.6
80°	217.8	226.4	272.7	331.1	396.3	310.5	245.3	374.0	349.9	360.3	176.7
82.5°	109.8	111.5	175.0	269.4	252.1	156.1	154.4	152.7	130.4	128.6	82.4
85°	12.0	25.8	113.2	154.4	113.2	51.4	72.0	70.3	68.6	70.3	48.0
87.5°	1.7	1.7	18.9	22.3	15.4	17.1	20.6	22.3	27.5	25.8	20.6
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°	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7	2080.7
2.5°	2142.5	2073.9	1946.9	1825.2	1734.3	1675.9	1600.5	1573.0	1533.6	1528.4	1509.5
5°	2235.2	2104.8	1883.5	1708.5	1567.9	1461.5	1368.9	1291.7	1229.9	1216.2	1223.0
7.5°	2367.2	2173.4	1864.6	1626.2	1430.6	1248.8	1101.3	1010.4	945.2	921.2	924.6
10°	2516.5	2264.3	1861.2	1538.7	1240.2	1017.2	856.0	775.3	737.6	723.9	708.5
12.5°	2693.1	2369.0	1852.7	1403.2	1031.0	811.3	696.5	648.4	612.4	602.1	602.1
15°	2892.2	2480.5	1811.5	1235.1	837.1	670.7	593.5	555.8	543.8	533.5	533.5
17.5°	3099.7	2590.2	1725.7	1027.5	694.8	574.6	526.6	504.3	487.2	475.1	475.1
20°	3336.4	2698.3	1588.5	844.0	586.7	512.9	475.1	449.4	435.7	425.4	422.0
22.5°	3561.2	2785.8	1413.5	693.0	511.2	461.4	427.1	399.7	385.9	380.9	380.9
25°	3794.4	2839.0	1202.5	572.9	466.6	418.6	380.9	358.5	346.5	343.1	341.4
27.5°	4020.9	2869.9	1017.2	500.9	425.4	379.1	343.1	326.0	313.9	310.5	312.2
30°	4295.3	2875.0	837.1	449.4	389.4	341.4	308.7	293.3	286.5	283.1	281.3
32.5°	4573.2	2868.1	703.3	418.6	355.1	308.7	281.3	269.4	264.2	259.0	259.0
35°	4885.5	2832.1	598.7	387.7	322.5	281.3	257.3	247.0	240.1	235.0	233.3
37.5°	5273.1	2813.2	538.6	353.4	293.3	255.6	233.3	223.0	217.8	211.0	209.3
40°	5883.8	2897.3	519.8	322.5	264.2	231.6	211.0	199.0	192.1	185.3	183.5
42.5°	6645.4	3044.9	488.9	291.6	238.4	209.3	188.7	175.0	162.9	154.4	151.0
45°	7631.7	3238.6	440.8	259.0	216.1	185.3	166.4	149.2	133.8	126.9	125.2
47.5°	8666.2	3425.6	398.0	233.3	192.1	164.7	144.1	125.2	111.5	106.3	104.6
50°	9300.9	3463.4	370.5	204.1	168.1	142.3	121.8	104.6	96.1	90.9	90.9
52.5°	9590.7	3403.3	332.8	178.4	145.8	125.2	104.6	90.9	85.7	82.4	80.6
55°	9793.1	3310.7	283.1	154.4	125.2	106.3	92.6	82.4	75.5	72.0	70.3
57°	9911.5	3185.5	245.3	135.5	108.1	92.6	82.4	73.8	66.9	60.1	60.1
57.5°	9916.7	3137.5	235.0	133.8	102.9	89.2	80.6	72.0	63.5	56.6	54.9
60°	9764.0	2808.1	188.7	113.2	82.4	75.5	66.9	56.6	44.6	37.7	36.0
62.5°	9273.4	2389.6	156.1	96.1	66.9	58.3	48.0	42.9	30.9	22.3	22.3
65°	8530.6	1938.4	133.8	77.2	54.9	42.9	32.6	30.9	18.9	10.3	8.6
67.5°	7456.8	1509.5	113.2	63.5	46.4	30.9	22.3	20.6	10.3	3.4	0.0
70°	5681.4	1029.3	94.4	51.4	34.3	22.3	15.4	12.0	6.9	1.7	0.0
72.5°	3274.7	566.1	78.9	39.5	25.8	17.1	12.0	6.9	6.9	0.0	0.0
75°	1169.9	243.6	60.1	29.1	20.6	13.7	8.6	3.4	5.2	1.7	0.0
77.5°	372.2	130.4	39.5	22.3	17.1	10.3	6.9	3.4	3.4	1.7	0.0
80°	109.8	68.6	24.0	18.9	12.0	8.6	5.2	1.7	3.4	1.7	0.0
82.5°	60.1	34.3	18.9	13.7	12.0	6.9	5.2	1.7	1.7	1.7	0.0
85°	30.9	20.6	15.4	13.7	12.0	6.9	5.2	1.7	0.0	1.7	1.7
87.5°	17.1	15.4	15.4	13.7	12.0	8.6	5.2	1.7	0.0	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)