

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: P648668

Luminaire Tested: **GALN-SA9B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648668
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-SA9B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 32337.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

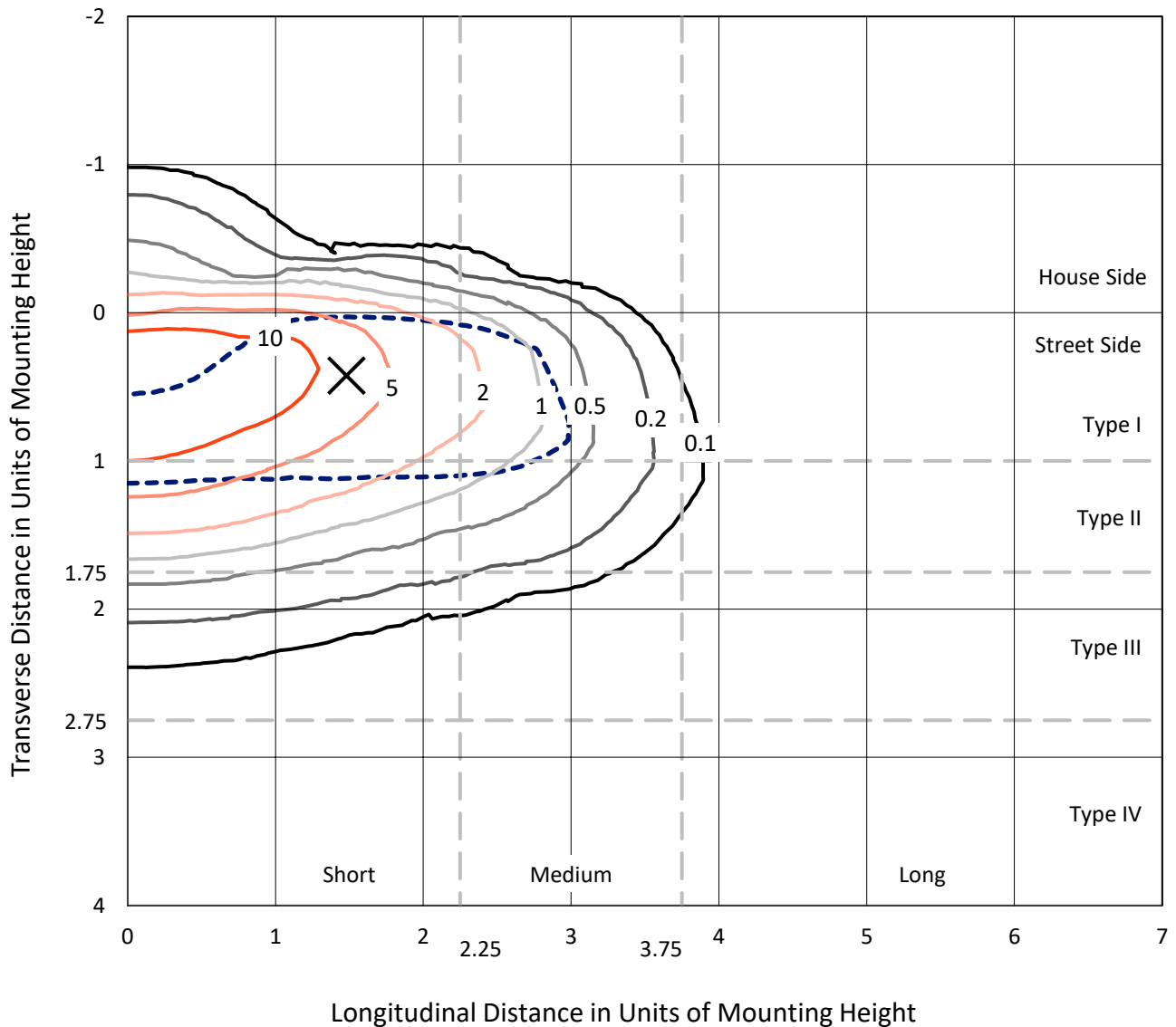
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

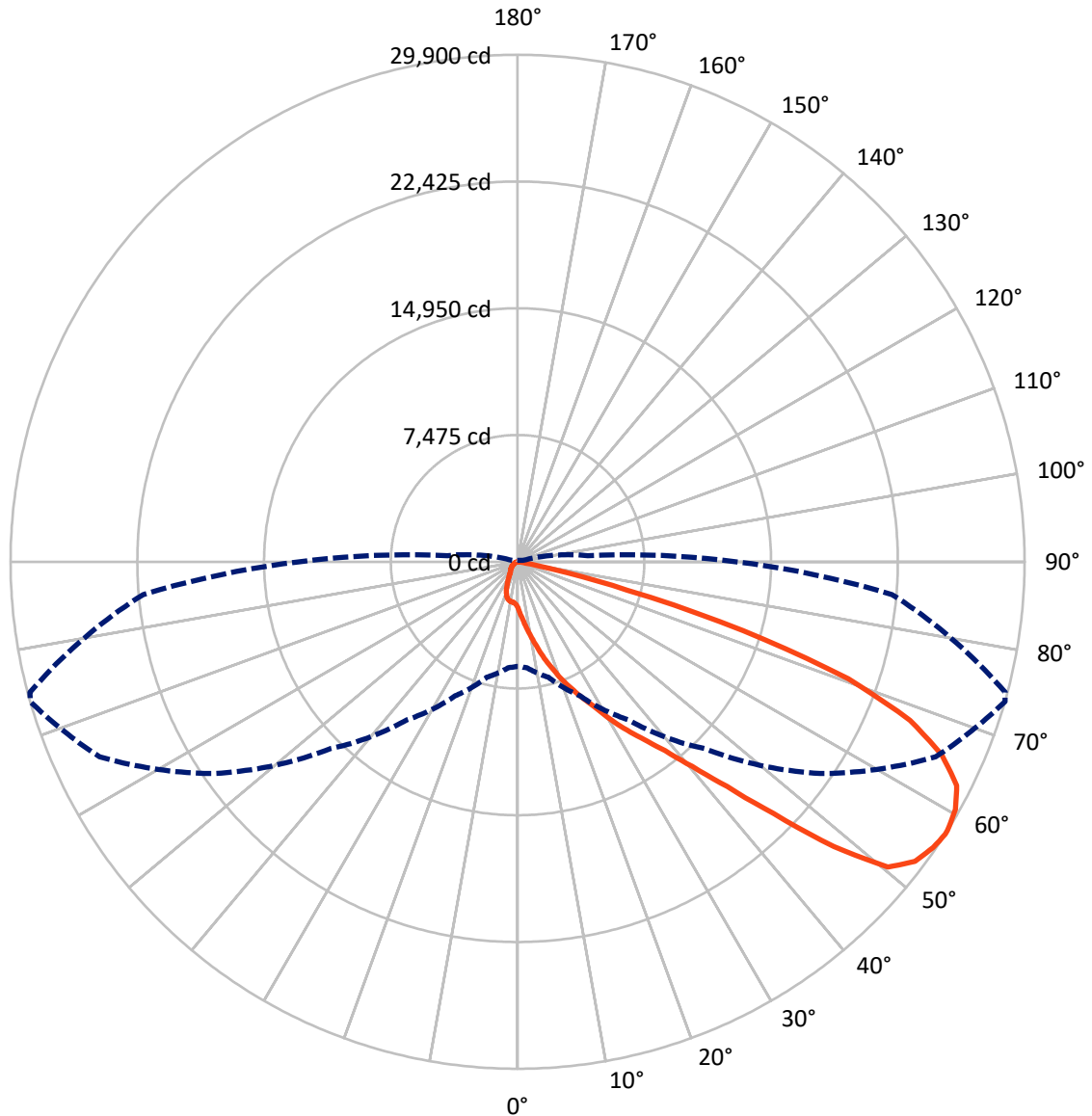
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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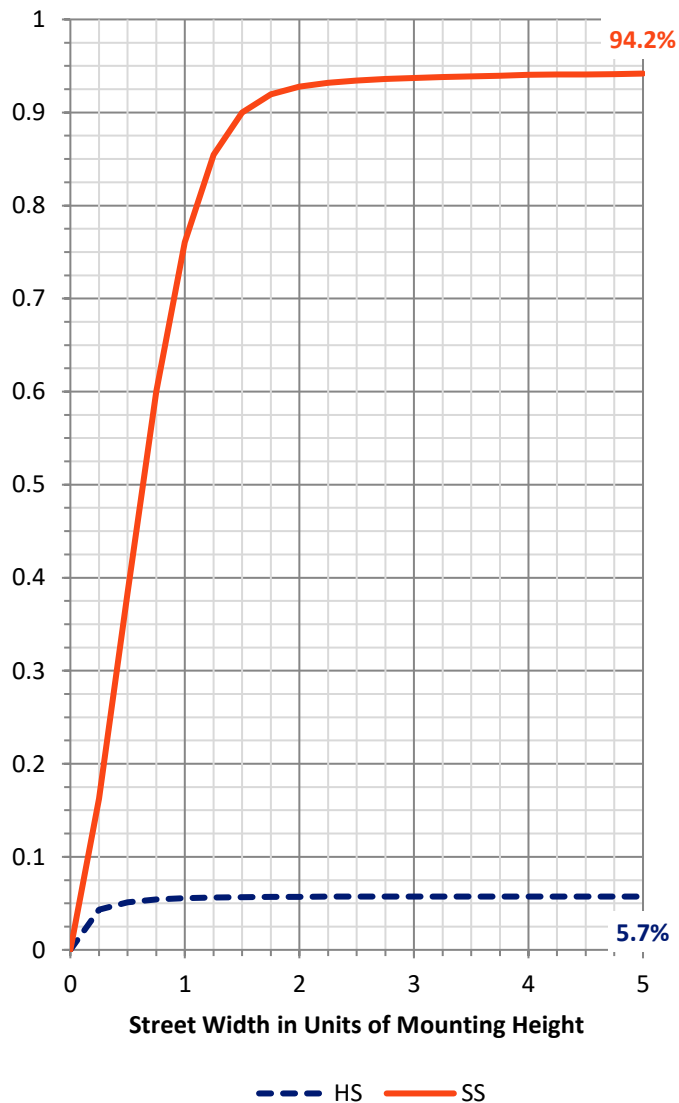
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1865.2	0.0	1865.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	30472.8	0.0	30472.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	32337.9	0.0	32337.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.0
10°-20°	1288.5	4.0
20°-30°	2757.0	8.5
30°-40°	5067.4	15.7
40°-50°	7768.4	24.0
50°-60°	8217.9	25.4
60°-70°	5366.5	16.6
70°-80°	1466.3	4.5
80°-90°	79.0	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°	32337.9	100.0
0°-180°	32337.9	100.0

Coefficient of Utilization

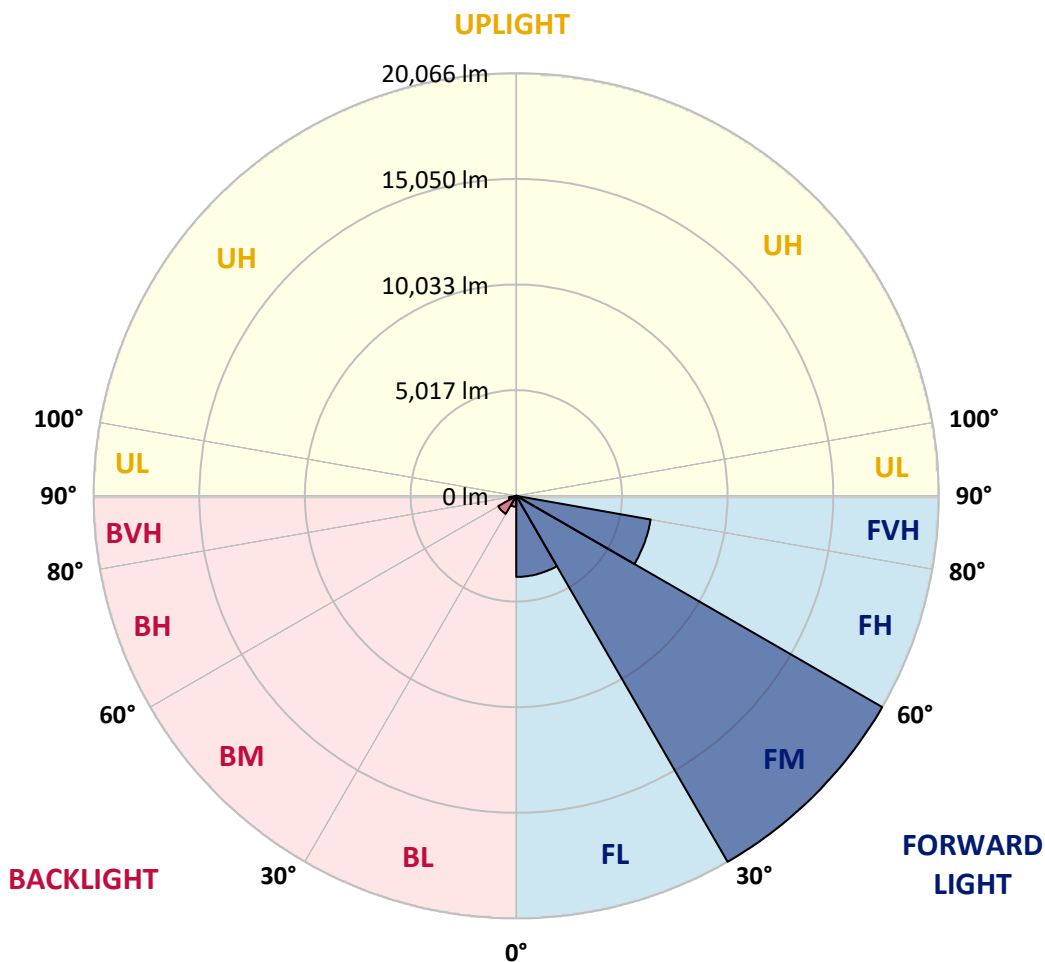


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3851.4	11.9			
FM (30°-60°)	20066.3	62.1			
FH (60°-80°)	6482.7	20.0			G3/7500
FVH (80°-90°)	72.4	0.2			G1/100
BL (0°-30°)	521.0	1.6	B2/1000		
BM (30°-60°)	987.5	3.1	B1/1000		
BH (60°-80°)	350.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2
2.5°	3963.0	3927.3	3855.9	3831.3	3726.4	3563.4	3420.5	3228.5	3076.6	3061.1	2877.9
5°	5307.1	5226.8	5193.2	5032.5	4780.2	4543.5	4137.2	3829.1	3474.1	3447.3	3078.9
7.5°	6602.1	6490.4	6456.9	6305.1	6010.4	5637.5	5110.6	4550.2	3987.6	3936.2	3349.0
10°	7539.8	7555.4	7495.2	7394.7	7155.8	6776.2	6126.5	5360.7	4559.2	4494.4	3652.7
12.5°	8211.9	8209.6	8220.8	8218.5	8091.3	7803.3	7120.1	6238.2	5188.8	5061.5	4001.0
15°	8649.5	8656.1	8689.7	8805.8	8819.2	8640.6	8071.2	7077.6	5918.9	5760.4	4378.3
17.5°	9091.5	9138.4	9192.0	9301.4	9399.6	9328.2	8926.3	7952.9	6579.8	6461.4	4782.4
20°	9821.6	9886.4	9855.1	9922.1	9973.5	9980.1	9669.8	8761.1	7381.3	7182.5	5244.6
22.5°	10989.3	10987.1	10906.7	10786.1	10685.7	10681.2	10399.9	9591.7	8109.1	7917.1	5709.0
25°	12465.1	12471.9	12315.6	11971.7	11721.7	11415.7	11092.1	10319.5	8888.4	8651.7	6198.0
27.5°	14157.5	14115.1	13878.4	13405.1	12909.4	12387.0	11920.3	11165.7	9714.4	9518.0	6758.4
30°	15678.0	15662.3	15385.5	14807.2	14155.3	13630.6	12954.1	12226.2	10783.9	10542.8	7385.7
32.5°	17093.5	17115.8	16731.8	16133.5	15503.8	14898.8	14184.3	13239.9	11833.2	11491.7	8069.0
35°	18198.7	18221.0	17823.6	17325.7	16678.2	16175.8	15494.9	14320.5	12869.2	12581.2	8854.9
37.5°	18788.1	18817.1	18587.2	18212.1	17807.9	17555.6	16921.6	15711.4	14128.5	13954.3	9783.7
40°	18899.7	18933.3	18832.8	18732.3	18709.9	18890.8	18705.5	17350.3	15874.5	15602.1	11167.9
42.5°	18564.9	18609.5	18654.1	18877.4	19332.9	19996.0	20641.2	19574.1	18122.8	17756.6	12860.3
45°	17685.2	17680.7	17857.1	18435.3	19455.7	20871.2	22664.1	22358.2	21186.0	20750.7	15251.5
47.5°	16180.3	16158.0	16539.8	17363.7	18953.3	21032.0	24314.0	25738.5	25095.5	24693.5	17821.4
50°	13887.4	13996.8	14597.3	15747.1	17705.3	20545.2	24823.1	27955.5	28303.9	27877.4	19897.8
52.5°	11201.4	11197.0	12139.2	13699.8	15856.6	19473.5	24468.1	28357.4	29346.5	29020.6	20920.4
55°	8290.0	8348.0	9328.2	10902.3	13456.5	17517.7	23309.3	27944.4	29744.0	29514.0	21594.6
57°	6166.7	6269.4	7055.3	8720.9	11366.7	15581.9	21766.5	27205.3	29900.3	29775.2	22155.0
57.5°	5755.9	5760.4	6526.1	8039.9	10754.9	14838.5	21324.5	26897.2	29895.8	29826.6	22246.5
60°	3543.3	3654.9	4184.0	5434.4	7872.4	11581.0	18361.7	25126.7	29663.6	29764.0	22637.3
62.5°	2121.1	2168.0	2511.8	3275.4	5074.9	8453.0	15026.0	22860.5	29058.5	29364.4	22610.5
65°	1364.1	1375.3	1531.6	1982.6	3172.6	5713.5	11578.8	19866.5	27493.4	28056.0	21726.4
67.5°	1053.8	1071.7	1134.2	1301.7	1839.7	3558.9	8189.6	16671.6	24961.5	25687.1	19583.0
70°	935.5	944.5	966.8	1020.3	1216.8	2009.4	5095.0	13023.3	20699.3	20904.7	15325.2
72.5°	763.6	788.2	857.4	875.2	964.5	1254.8	2835.6	8741.0	13907.4	13958.8	8573.5
75°	591.6	596.1	698.8	750.2	812.7	864.0	1266.0	4407.4	6680.2	6323.0	3304.4
77.5°	442.1	462.2	509.0	573.8	663.1	618.5	567.1	1661.1	2074.2	2036.2	960.0
80°	283.5	294.7	355.0	430.9	515.8	404.1	319.3	486.7	455.5	468.9	230.0
82.5°	142.9	145.1	227.7	350.5	328.2	203.2	200.9	198.7	169.7	167.5	107.2
85°	15.7	33.5	147.4	200.9	147.4	66.9	93.8	91.5	89.3	91.5	62.5
87.5°	2.3	2.3	24.6	29.0	20.1	22.3	26.8	29.0	35.7	33.5	26.8
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°	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2
2.5°	2788.7	2699.3	2534.1	2375.6	2257.2	2181.4	2083.1	2047.4	1996.0	1989.4	1964.8
5°	2909.2	2739.5	2451.5	2223.8	2040.7	1902.2	1781.7	1681.2	1600.8	1583.0	1591.9
7.5°	3081.1	2828.8	2426.9	2116.6	1862.1	1625.4	1433.4	1315.0	1230.2	1198.9	1203.4
10°	3275.4	2947.1	2422.4	2002.8	1614.2	1324.0	1114.1	1009.2	960.0	942.2	922.1
12.5°	3505.3	3083.4	2411.3	1826.3	1341.8	1056.0	906.5	844.0	797.1	783.7	783.7
15°	3764.4	3228.5	2357.7	1607.6	1089.5	873.0	772.5	723.4	707.8	694.4	694.4
17.5°	4034.5	3371.4	2246.1	1337.4	904.2	747.9	685.4	656.4	634.1	618.5	618.5
20°	4342.6	3512.0	2067.5	1098.5	763.6	667.6	618.5	585.0	567.1	553.7	549.3
22.5°	4635.0	3625.9	1839.7	902.0	665.3	600.6	555.9	520.2	502.4	495.6	495.6
25°	4938.7	3695.1	1565.1	745.7	607.3	544.8	495.6	466.7	451.0	446.5	444.3
27.5°	5233.4	3735.3	1324.0	651.9	553.7	493.4	446.5	424.2	408.6	404.1	406.4
30°	5590.7	3742.0	1089.5	585.0	506.8	444.3	401.9	381.8	372.9	368.4	366.1
32.5°	5952.4	3733.0	915.4	544.8	462.2	401.9	366.1	350.5	343.8	337.2	337.2
35°	6358.7	3686.2	779.2	504.6	419.8	366.1	334.9	321.5	312.6	305.9	303.6
37.5°	6863.3	3661.6	701.1	459.9	381.8	332.7	303.6	290.3	283.5	274.6	272.4
40°	7658.1	3771.0	676.5	419.8	343.8	301.4	274.6	259.0	250.1	241.2	238.9
42.5°	8649.5	3963.0	636.3	379.5	310.4	272.4	245.6	227.7	212.1	200.9	196.5
45°	9933.2	4215.4	573.8	337.2	281.3	241.2	216.6	194.3	174.1	165.2	163.0
47.5°	11279.6	4458.7	518.0	303.6	250.1	214.3	187.5	163.0	145.1	138.4	136.2
50°	12105.6	4507.8	482.2	265.7	218.8	185.3	158.6	136.2	125.0	118.3	118.3
52.5°	12483.0	4429.7	433.2	232.2	189.8	163.0	136.2	118.3	111.7	107.2	104.9
55°	12746.5	4309.1	368.4	200.9	163.0	138.4	120.6	107.2	98.3	93.8	91.5
57°	12900.5	4146.1	319.3	176.4	140.6	120.6	107.2	96.0	87.1	78.1	78.1
57.5°	12907.2	4083.6	305.9	174.1	134.0	116.1	104.9	93.8	82.6	73.7	71.4
60°	12708.5	3654.9	245.6	147.4	107.2	98.3	87.1	73.7	58.0	49.1	46.9
62.5°	12069.9	3110.2	203.2	125.0	87.1	75.9	62.5	55.8	40.2	29.0	29.0
65°	11103.2	2523.0	174.1	100.5	71.4	55.8	42.4	40.2	24.6	13.4	11.2
67.5°	9705.5	1964.8	147.4	82.6	60.3	40.2	29.0	26.8	13.4	4.5	0.0
70°	7394.7	1339.6	122.8	66.9	44.6	29.0	20.1	15.7	8.9	2.3	0.0
72.5°	4262.2	736.8	102.7	51.4	33.5	22.3	15.7	8.9	8.9	0.0	0.0
75°	1522.7	317.0	78.1	38.0	26.8	17.9	11.2	4.5	6.7	2.3	0.0
77.5°	484.5	169.7	51.4	29.0	22.3	13.4	8.9	4.5	4.5	2.3	0.0
80°	142.9	89.3	31.2	24.6	15.7	11.2	6.7	2.3	4.5	2.3	0.0
82.5°	78.1	44.6	24.6	17.9	15.7	8.9	6.7	2.3	2.3	2.3	0.0
85°	40.2	26.8	20.1	17.9	15.7	8.9	6.7	2.3	0.0	2.3	2.3
87.5°	22.3	20.1	20.1	17.9	15.7	11.2	6.7	2.3	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)