

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: P652625

Luminaire Tested: **GALN-SA9B-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32431.5 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

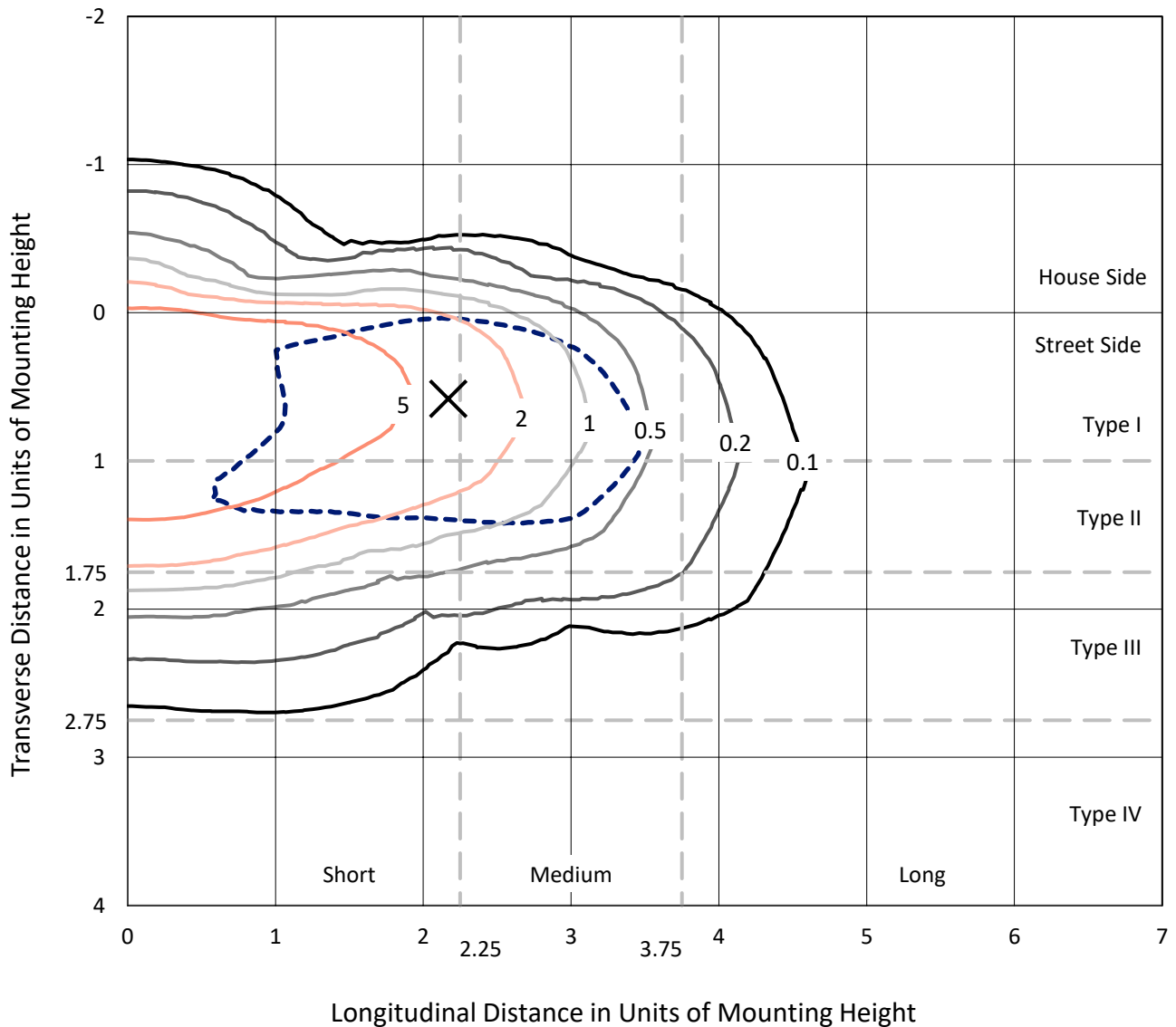
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

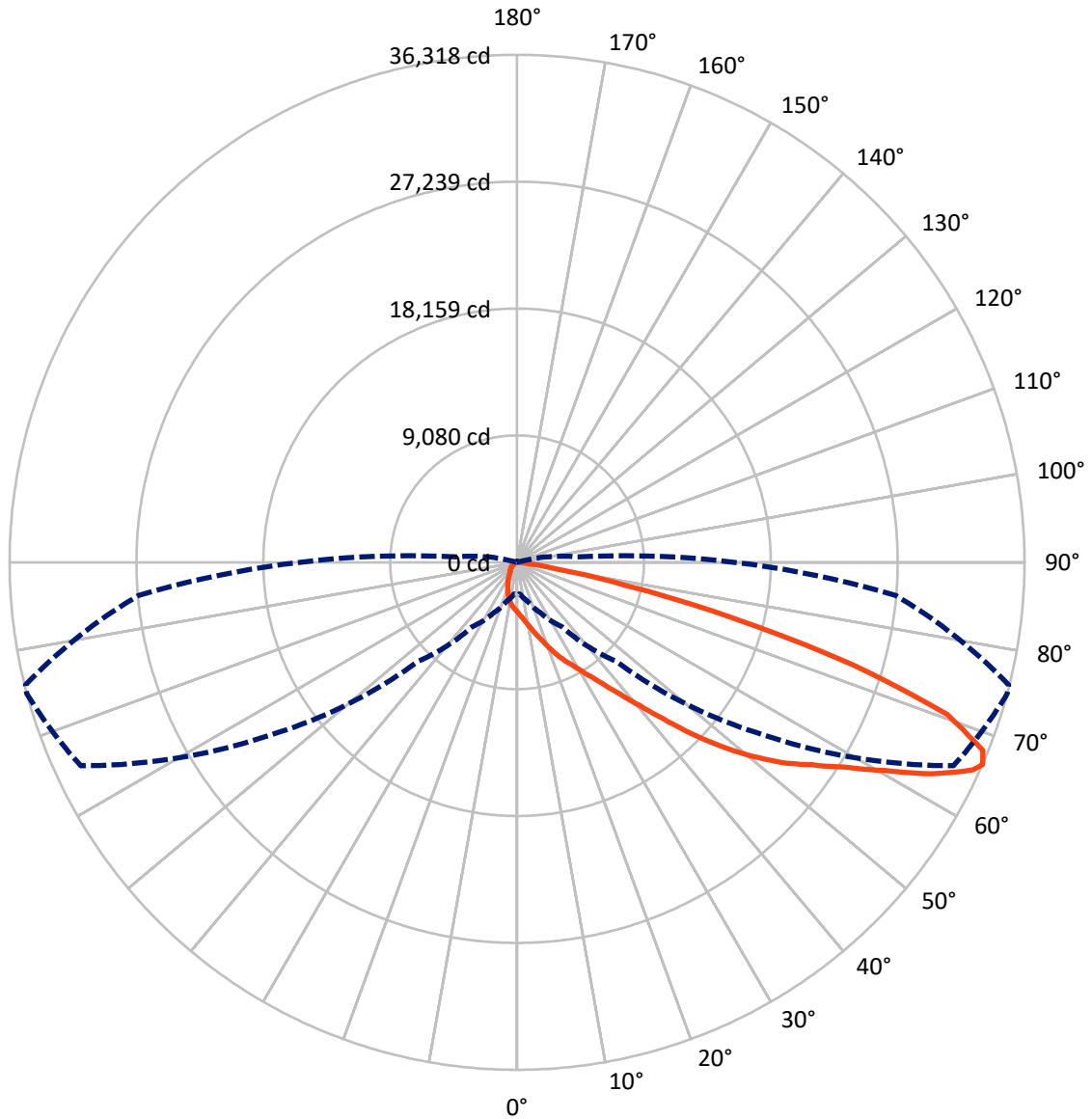
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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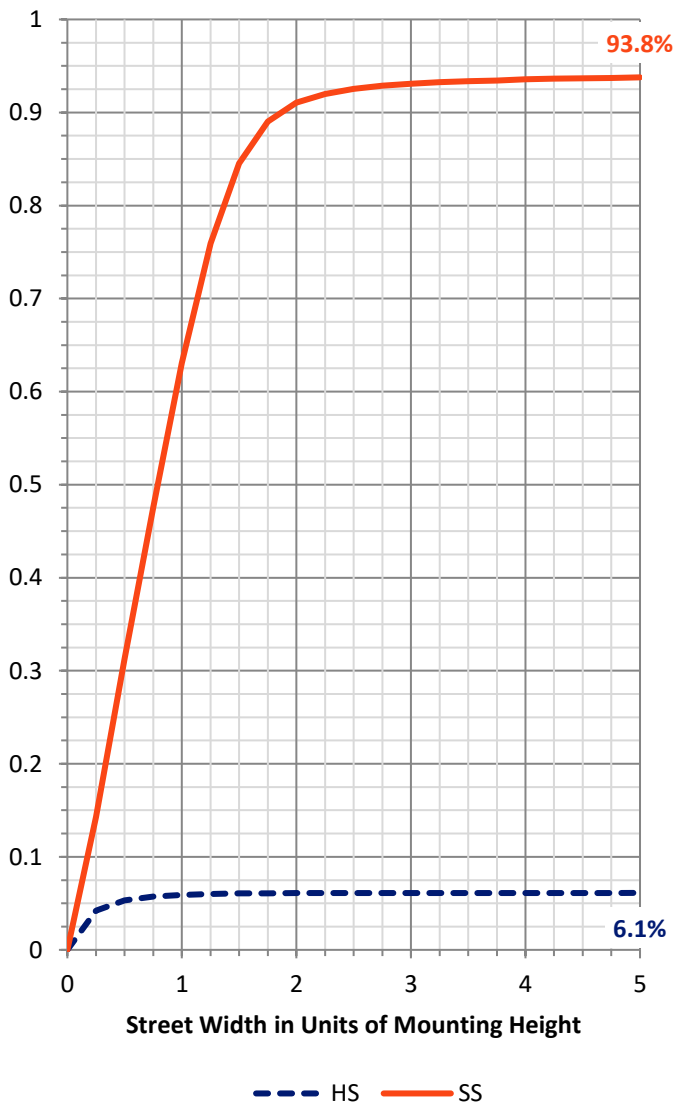
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2002.2	0.0	2002.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	30429.3	0.0	30429.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	32431.5	0.0	32431.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.1
10°-20°	1006.8	3.1
20°-30°	1738.5	5.4
30°-40°	3135.8	9.7
40°-50°	5665.0	17.5
50°-60°	8831.8	27.2
60°-70°	8389.8	25.9
70°-80°	3144.3	9.7
80°-90°	177.4	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°	32431.5	100.0
0°-180°	32431.5	100.0

Coefficient of Utilization

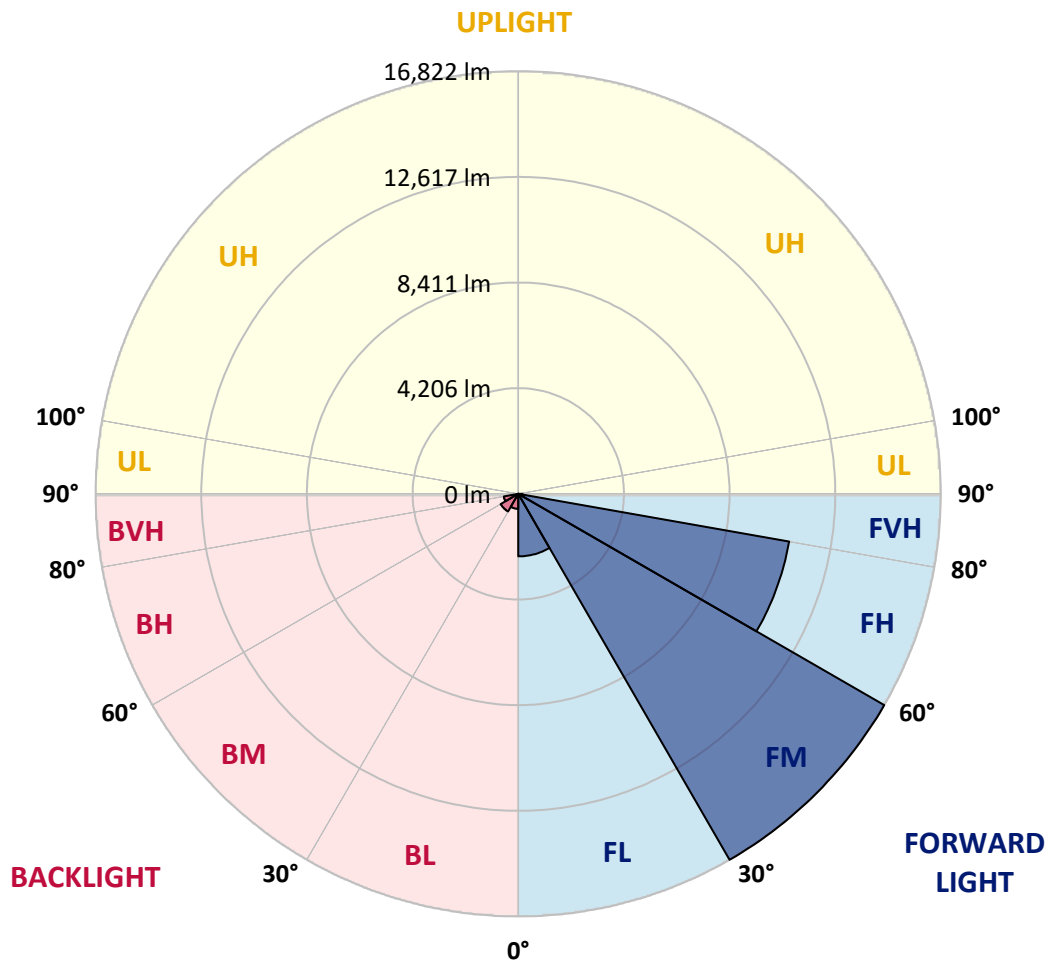


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.4	7.7			
FM (30°-60°)	16822.2	51.9			
FH (60°-80°)	10949.5	33.8			G4/12000
FVH (80°-90°)	168.2	0.5			G2/225
BL (0°-30°)	597.9	1.8	B2/1000		
BM (30°-60°)	810.4	2.5	B1/1000		
BH (60°-80°)	584.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.2	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7
2.5°	4237.4	4184.6	4201.4	4177.4	4122.2	4040.7	3968.8	3865.7	3762.5	3745.7	3630.6
5°	4796.1	4781.7	4762.5	4692.9	4654.6	4529.9	4381.2	4203.7	3990.4	3951.9	3743.4
7.5°	5177.4	5170.2	5179.8	5143.8	5110.3	4997.6	4839.3	4597.1	4266.1	4244.5	3896.9
10°	5302.1	5321.3	5357.3	5414.8	5467.5	5431.6	5311.7	5009.5	4623.4	4561.1	4071.9
12.5°	5230.1	5251.7	5338.1	5491.5	5661.8	5760.1	5712.2	5491.5	5002.4	4952.0	4268.5
15°	5045.5	5071.8	5194.2	5431.6	5736.1	6014.3	6134.2	5975.9	5443.5	5362.0	4505.9
17.5°	4772.1	4810.4	4985.5	5299.6	5716.9	6196.6	6534.7	6481.9	5913.6	5836.8	4764.9
20°	4565.9	4594.6	4743.3	5103.0	5635.4	6297.2	6916.0	7064.7	6493.9	6362.0	5069.5
22.5°	4702.5	4712.1	4762.5	4978.3	5489.1	6323.6	7251.7	7671.3	7110.2	6992.7	5386.0
25°	5371.6	5275.7	5225.3	5177.4	5457.9	6299.7	7556.2	8304.5	7724.1	7599.4	5700.1
27.5°	6426.8	6383.6	6129.4	5788.9	5724.1	6330.8	7757.6	8903.9	8302.0	8167.7	6007.1
30°	7575.4	7501.0	7345.2	6846.4	6345.2	6551.5	7904.0	9486.6	8985.5	8808.0	6287.7
32.5°	8630.5	8678.5	8445.9	7932.7	7352.4	7021.4	8093.4	10122.1	9769.6	9549.0	6613.8
35°	9860.7	9956.7	9599.3	9107.8	8429.1	7870.3	8462.6	10839.1	10764.8	10486.6	7117.4
37.5°	11110.1	11167.6	10949.5	10258.9	9647.3	8949.5	9158.2	11724.0	11990.2	11752.8	7719.3
40°	12160.4	12239.6	12078.9	11465.0	10812.7	10198.9	10167.7	12688.0	13448.2	13203.6	8616.1
42.5°	12963.8	13023.7	13028.5	12594.5	12007.0	11728.8	11455.4	13918.2	15275.5	14992.6	9657.0
45°	13978.2	14064.5	14014.2	13719.2	13280.3	13230.0	13088.5	15405.0	17462.5	17105.3	11007.0
47.5°	15546.5	15604.1	15479.4	15131.6	14685.6	14764.8	14680.8	17071.6	19692.7	19385.8	12405.1
50°	16635.2	16731.1	16908.6	17047.7	16724.0	16431.4	16182.0	18628.0	21810.2	21534.4	13834.3
52.5°	16623.2	16781.5	17342.6	18042.9	18750.3	18661.5	17944.6	20347.4	23831.8	23491.2	15177.2
55°	15503.3	15810.3	16635.2	17877.4	19836.6	20812.6	20486.5	22337.7	25577.5	25347.3	16733.5
57.5°	13191.6	13378.7	14524.9	16261.2	19229.9	21824.5	23431.3	25035.6	27671.0	27563.1	19150.7
60°	8872.7	8956.6	10431.5	12577.7	16371.4	20815.0	25589.5	28299.3	30248.9	30196.1	21973.2
62.5°	5083.8	5119.8	6189.3	7999.8	11649.7	17640.0	25771.8	32325.6	33339.9	33368.8	25239.4
65°	2736.2	2755.4	3618.7	4695.4	7088.6	12572.9	23174.7	34531.8	35838.7	35893.9	27263.4
66°	2362.0	2271.0	2880.1	4002.3	5640.2	10007.1	21532.0	34452.7	36318.3	36258.4	27191.4
67.5°	1796.1	1877.7	2299.7	3076.7	4179.8	7115.0	17776.7	32920.3	35953.8	35766.8	26085.9
70°	1285.4	1318.9	1637.8	2194.2	2846.4	3904.0	11359.6	27342.5	32678.1	32426.4	22726.3
72.5°	829.7	865.7	1160.7	1587.5	2057.5	2131.9	6359.6	19755.1	25193.8	25157.8	17114.9
75°	592.3	625.9	767.4	1136.7	1546.8	1318.9	3062.3	13314.0	16016.5	15908.6	10587.3
77.5°	429.2	446.1	513.2	743.4	1105.5	944.9	1419.6	7110.2	7973.5	8350.0	4678.6
80°	247.0	261.4	357.3	453.2	748.2	645.0	678.7	2853.7	2942.4	2801.0	1462.8
82.5°	122.3	139.1	213.4	309.3	467.6	434.0	311.8	858.5	906.4	882.5	369.3
85°	28.8	36.0	119.9	203.9	227.8	194.3	151.0	251.8	311.8	304.5	141.5
87.5°	2.4	4.8	43.1	36.0	38.3	64.8	52.7	64.8	100.8	93.5	50.4
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°	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7	3546.7
2.5°	3577.9	3532.3	3400.4	3270.9	3163.0	3050.3	2947.2	2887.2	2863.3	2836.9	2848.9
5°	3628.2	3517.9	3251.7	3021.5	2796.2	2604.2	2450.8	2352.4	2304.5	2297.4	2285.3
7.5°	3695.4	3506.0	3093.5	2733.8	2438.8	2225.4	2050.4	1908.8	1865.7	1827.3	1796.1
10°	3776.9	3484.3	2896.8	2431.6	2117.5	1848.9	1618.7	1450.8	1364.5	1340.5	1357.3
12.5°	3863.2	3443.6	2690.6	2153.5	1791.3	1448.5	1235.0	1151.1	1127.1	1117.5	1119.9
15°	3949.6	3393.3	2474.8	1884.8	1426.8	1155.9	1057.6	1035.9	1026.4	1021.6	1016.8
17.5°	4028.7	3311.7	2232.6	1623.5	1155.9	988.0	952.0	932.8	913.7	906.4	894.5
20°	4122.2	3218.2	2014.4	1330.9	978.4	894.5	851.3	815.3	786.6	767.4	765.0
22.5°	4211.0	3098.2	1786.5	1103.1	892.0	803.3	733.8	695.4	661.9	637.9	645.0
25°	4258.9	2952.0	1582.7	961.6	812.9	712.2	635.5	587.5	551.5	539.6	537.1
27.5°	4258.9	2772.1	1383.7	880.1	741.0	630.7	551.5	505.9	482.0	465.2	467.6
30°	4225.4	2573.1	1199.0	817.7	678.7	558.8	484.4	443.6	424.5	412.4	410.1
32.5°	4198.9	2383.6	1040.7	757.7	613.9	496.4	431.7	400.5	381.3	369.3	369.3
35°	4239.7	2220.6	918.5	697.9	554.0	448.4	390.9	362.1	343.0	333.3	330.9
37.5°	4347.6	2071.9	824.9	633.1	498.8	407.6	362.1	328.5	309.3	297.4	292.6
40°	4613.8	1988.0	755.4	573.1	446.1	374.1	328.5	297.4	273.4	261.4	259.0
42.5°	5040.7	1990.4	688.3	518.0	405.3	345.3	299.7	263.8	237.4	225.4	223.0
45°	5683.4	2081.5	635.5	465.2	369.3	314.1	268.6	230.2	206.2	194.3	194.3
47.5°	6453.2	2258.9	589.9	419.7	335.7	285.4	237.4	199.1	175.1	165.4	165.4
50°	7287.7	2489.2	544.4	371.7	307.0	254.2	203.9	172.7	153.5	146.2	146.2
52.5°	8138.9	2767.3	498.8	333.3	275.8	220.6	175.1	153.5	136.7	131.9	129.5
55°	9256.5	3122.2	450.9	292.6	242.2	189.5	155.8	134.3	115.1	107.9	105.5
57.5°	10975.8	3657.0	398.0	256.6	199.1	158.3	134.3	112.7	91.2	79.1	76.7
60°	13050.1	4309.3	343.0	225.4	160.6	129.5	107.9	86.4	67.1	52.7	50.4
62.5°	14992.6	4724.1	290.1	189.5	127.1	98.3	76.7	64.8	47.9	33.6	31.2
65°	15851.1	4585.0	239.8	153.5	100.8	69.6	50.4	45.6	28.8	14.4	12.0
66°	15565.6	4378.8	220.6	139.1	91.2	60.0	43.1	38.3	21.6	7.2	7.2
67.5°	14724.0	3892.0	191.8	119.9	79.1	47.9	33.6	28.8	12.0	2.4	0.0
70°	12616.1	3148.6	151.0	88.7	57.5	33.6	19.2	14.4	7.2	0.0	0.0
72.5°	9690.5	2345.3	119.9	67.1	40.8	19.2	9.6	4.8	7.2	0.0	0.0
75°	5937.5	1340.5	93.5	50.4	26.4	12.0	7.2	0.0	7.2	2.4	0.0
77.5°	2635.4	601.9	62.3	33.6	19.2	9.6	4.8	0.0	4.8	2.4	0.0
80°	666.7	196.6	36.0	24.0	14.4	7.2	2.4	0.0	4.8	4.8	2.4
82.5°	182.2	71.9	26.4	19.2	12.0	7.2	2.4	0.0	4.8	4.8	4.8
85°	71.9	33.6	24.0	19.2	14.4	7.2	2.4	0.0	4.8	4.8	4.8
87.5°	33.6	24.0	24.0	21.6	16.8	7.2	2.4	0.0	4.8	2.4	4.8
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)