

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: P648500

Luminaire Tested: **GALN-SA6B-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648500
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-SA6B-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 19750.4 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

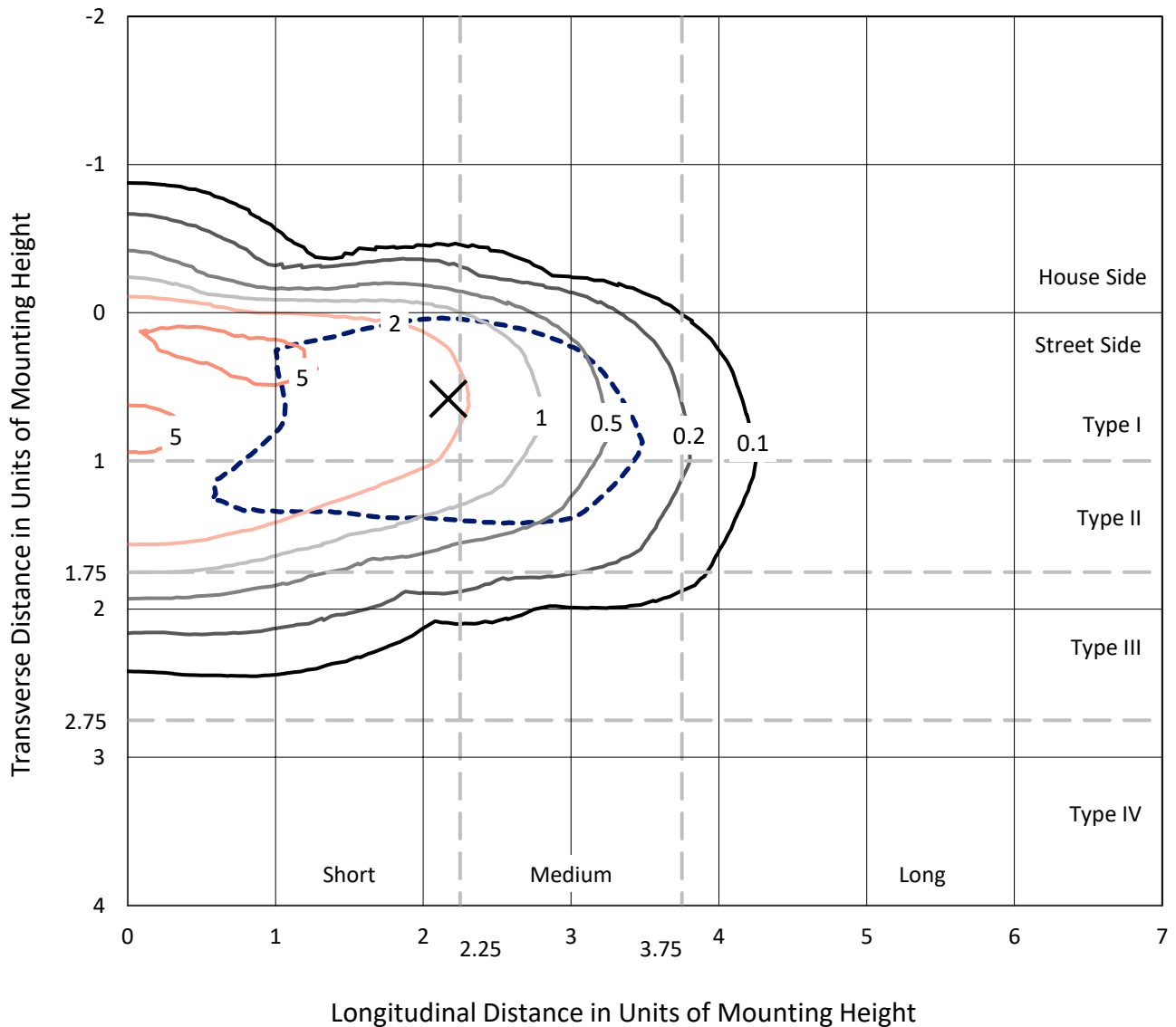
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

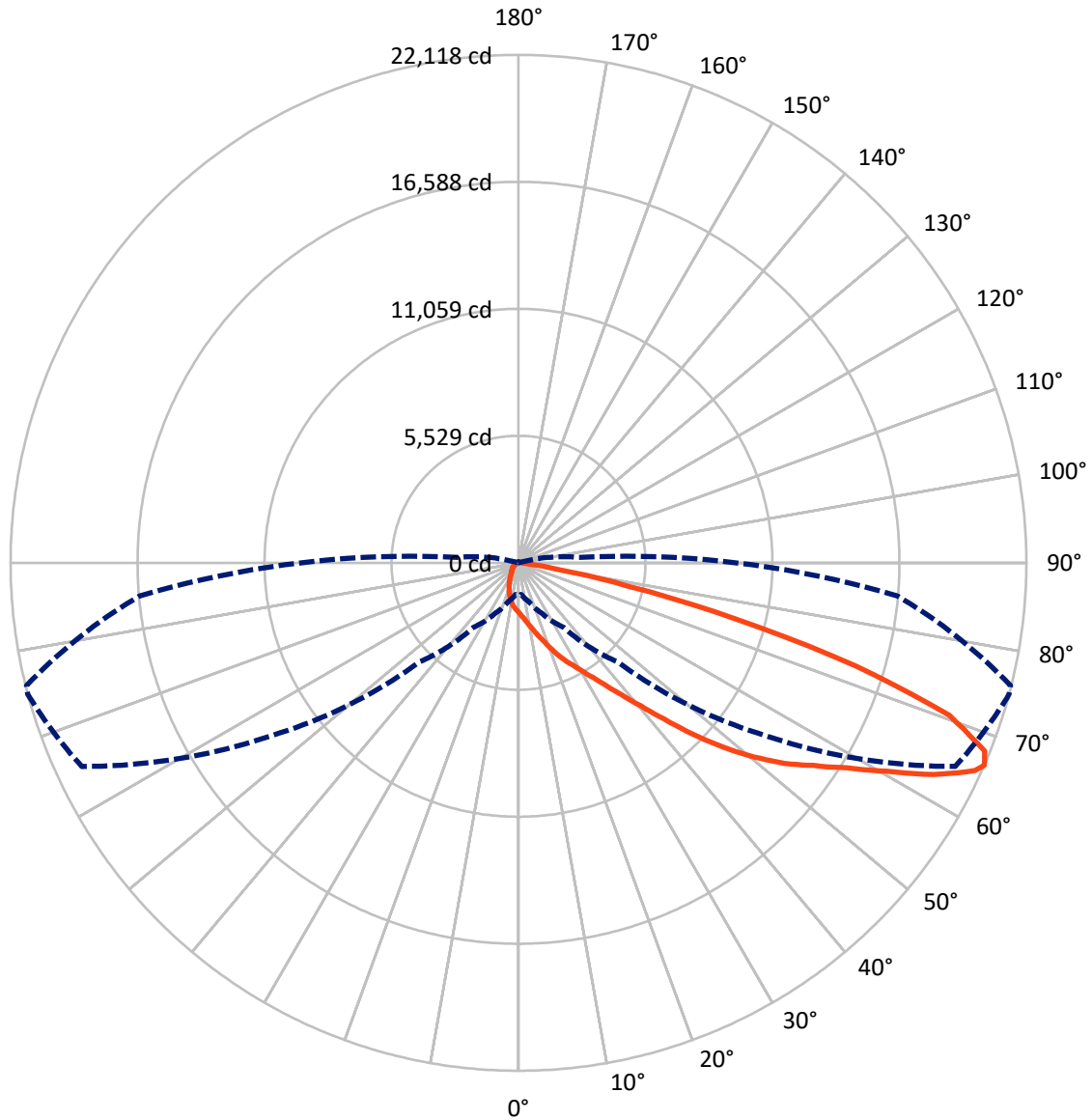
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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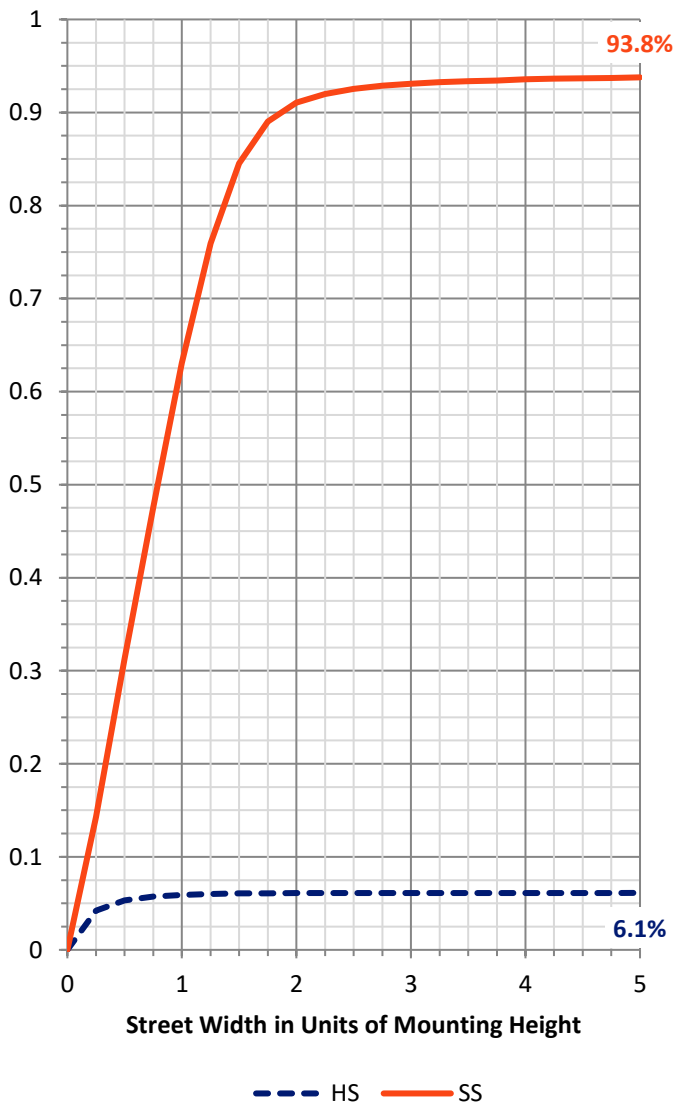
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.3	0.0	1219.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18531.1	0.0	18531.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	19750.4	0.0	19750.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	1.1
10°-20°	613.1	3.1
20°-30°	1058.7	5.4
30°-40°	1909.7	9.7
40°-50°	3449.9	17.5
50°-60°	5378.4	27.2
60°-70°	5109.3	25.9
70°-80°	1914.8	9.7
80°-90°	108.0	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°	19750.4	100.0
0°-180°	19750.4	100.0

Coefficient of Utilization

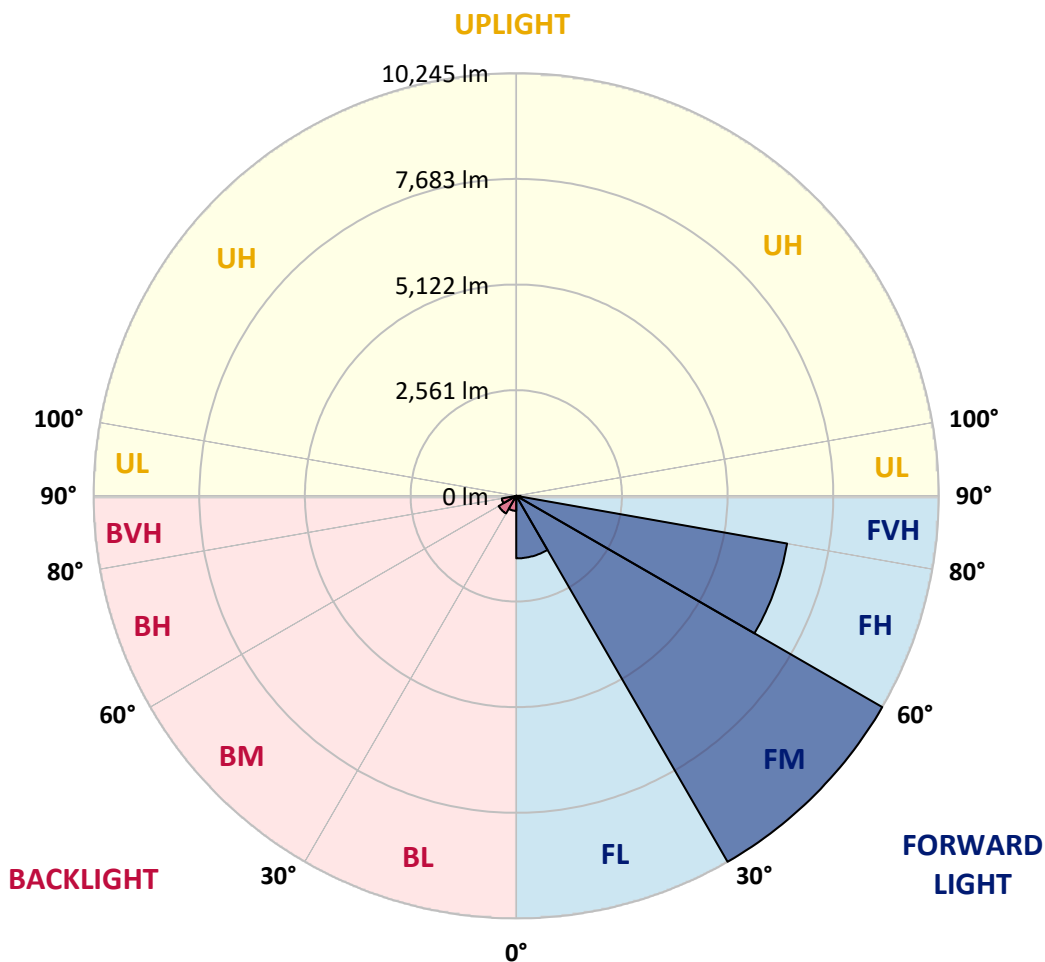


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.0	7.7			
FM (30°-60°)	10244.5	51.9			
FH (60°-80°)	6668.1	33.8			G3/7500
FVH (80°-90°)	102.5	0.5			G2/225
BL (0°-30°)	364.1	1.8	B1/500		
BM (30°-60°)	493.5	2.5	B1/1000		
BH (60°-80°)	356.1	1.8	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9
2.5°	2580.5	2548.4	2558.6	2544.0	2510.4	2460.7	2417.0	2354.2	2291.4	2281.1	2211.0
5°	2920.7	2912.0	2900.3	2858.0	2834.6	2758.7	2668.2	2560.0	2430.0	2406.7	2279.6
7.5°	3153.0	3148.6	3154.4	3132.5	3112.0	3043.4	2947.1	2799.5	2598.0	2584.8	2373.1
10°	3228.9	3240.6	3262.4	3297.5	3329.6	3307.8	3234.7	3050.7	2815.6	2777.6	2479.8
12.5°	3185.1	3198.2	3250.8	3344.3	3447.9	3507.8	3478.6	3344.3	3046.3	3015.6	2599.5
15°	3072.6	3088.7	3163.2	3307.8	3493.2	3662.6	3735.6	3639.2	3315.1	3265.4	2744.0
17.5°	2906.2	2929.5	3036.2	3227.4	3481.5	3773.6	3979.5	3947.4	3601.3	3554.6	2901.8
20°	2780.6	2798.1	2888.6	3107.6	3431.9	3835.0	4211.8	4302.3	3954.7	3874.4	3087.2
22.5°	2863.8	2869.6	2900.3	3031.8	3342.8	3851.0	4416.2	4671.8	4330.0	4258.5	3280.0
25°	3271.2	3212.8	3182.2	3153.0	3323.8	3836.4	4601.7	5057.3	4703.9	4627.9	3471.4
27.5°	3913.8	3887.5	3732.7	3525.4	3485.9	3855.4	4724.3	5422.4	5055.8	4974.1	3658.3
30°	4613.4	4568.1	4473.1	4169.4	3864.2	3989.8	4813.4	5777.3	5472.1	5363.9	3829.1
32.5°	5255.9	5285.1	5143.4	4831.0	4477.5	4276.0	4928.8	6164.2	5949.5	5815.3	4027.8
35°	6005.1	6063.5	5845.9	5546.5	5133.3	4793.0	5153.7	6600.9	6555.7	6386.2	4334.4
37.5°	6765.9	6801.0	6668.1	6247.5	5875.1	5450.1	5577.2	7139.8	7301.9	7157.3	4701.0
40°	7405.6	7453.8	7355.9	6982.1	6584.9	6211.0	6192.0	7726.9	8189.8	8040.9	5247.1
42.5°	7894.8	7931.3	7934.2	7669.9	7312.1	7142.7	6976.2	8476.1	9302.6	9130.3	5881.0
45°	8512.5	8565.2	8534.5	8354.8	8087.6	8056.9	7970.8	9381.4	10634.5	10416.9	6703.1
47.5°	9467.6	9502.7	9426.8	9215.0	8943.3	8991.6	8940.5	10396.4	11992.7	11805.7	7554.5
50°	10130.6	10189.1	10297.2	10381.8	10184.7	10006.5	9854.6	11344.3	13282.2	13114.2	8424.9
52.5°	10123.3	10219.7	10561.5	10987.9	11418.7	11364.7	10928.0	12391.3	14513.2	14305.9	9242.8
55°	9441.3	9628.3	10130.6	10887.1	12080.3	12674.7	12476.0	13603.5	15576.4	15436.2	10190.5
57.5°	8033.6	8147.4	8845.6	9902.8	11710.8	13290.9	14269.4	15246.3	16851.3	16785.6	11662.6
60°	5403.4	5454.5	6352.6	7659.7	9970.0	12676.1	15583.7	17233.9	18421.2	18389.1	13381.5
62.5°	3096.0	3117.9	3769.2	4871.8	7094.5	10742.5	15694.7	19685.9	20303.7	20321.2	15370.5
65°	1666.3	1678.0	2203.7	2859.4	4316.9	7656.8	14113.1	21029.4	21825.3	21858.9	16603.0
66°	1438.4	1383.0	1753.9	2437.4	3434.8	6094.2	13112.7	20981.3	22117.5	22080.9	16559.3
67.5°	1093.9	1143.5	1400.5	1873.6	2545.5	4333.0	10825.8	20048.1	21895.5	21781.6	15886.0
70°	782.8	803.2	997.5	1336.3	1733.5	2377.5	6917.8	16651.3	19900.6	19747.3	13840.0
72.5°	505.3	527.2	706.8	966.8	1253.0	1298.3	3873.0	12030.6	15342.7	15320.8	10422.7
75°	360.7	381.2	467.3	692.3	941.9	803.2	1864.9	8108.0	9753.9	9688.1	6447.5
77.5°	261.4	271.6	312.5	452.7	673.2	575.4	864.5	4330.0	4855.8	5085.0	2849.2
80°	150.4	159.2	217.6	276.0	455.6	392.8	413.3	1737.9	1791.9	1705.7	890.8
82.5°	74.5	84.7	130.0	188.4	284.8	264.3	189.9	522.8	552.0	537.5	224.9
85°	17.5	21.9	73.1	124.1	138.7	118.3	92.0	153.3	189.9	185.5	86.1
87.5°	1.5	2.9	26.3	21.9	23.3	39.5	32.1	39.5	61.3	56.9	30.7
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°	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9	2159.9
2.5°	2178.9	2151.1	2070.8	1992.0	1926.3	1857.6	1794.8	1758.3	1743.7	1727.6	1734.9
5°	2209.5	2142.4	1980.3	1840.0	1702.8	1586.0	1492.5	1432.7	1403.4	1399.1	1391.7
7.5°	2250.4	2135.1	1883.9	1664.8	1485.2	1355.2	1248.7	1162.4	1136.2	1112.8	1093.9
10°	2300.1	2121.9	1764.1	1480.8	1289.5	1126.0	985.7	883.5	830.9	816.4	826.6
12.5°	2352.7	2097.1	1638.6	1311.4	1090.9	882.0	752.1	701.0	686.4	680.5	682.0
15°	2405.2	2066.4	1507.1	1147.9	868.9	703.9	644.0	630.9	625.1	622.1	619.2
17.5°	2453.5	2016.8	1359.6	988.7	703.9	601.7	579.7	568.1	556.4	552.0	544.7
20°	2510.4	1959.8	1226.7	810.5	595.9	544.7	518.4	496.5	479.0	467.3	465.9
22.5°	2564.4	1886.8	1088.0	671.7	543.2	489.2	446.9	423.5	403.1	388.4	392.8
25°	2593.6	1797.7	963.9	585.6	495.1	433.7	387.0	357.8	335.9	328.5	327.1
27.5°	2593.6	1688.2	842.7	536.0	451.2	384.1	335.9	308.1	293.5	283.3	284.8
30°	2573.2	1567.0	730.2	498.0	413.3	340.3	295.0	270.1	258.5	251.2	249.7
32.5°	2557.1	1451.6	633.8	461.5	373.9	302.3	262.9	243.9	232.2	224.9	224.9
35°	2581.9	1352.3	559.3	424.9	337.3	273.1	238.0	220.5	208.8	203.0	201.5
37.5°	2647.6	1261.8	502.4	385.5	303.7	248.3	220.5	200.1	188.4	181.1	178.1
40°	2809.8	1210.7	460.0	349.1	271.6	227.9	200.1	181.1	166.5	159.2	157.7
42.5°	3069.8	1212.1	419.1	315.5	246.8	210.3	182.5	160.7	144.5	137.3	135.9
45°	3461.1	1267.6	387.0	283.3	224.9	191.3	163.6	140.2	125.6	118.3	118.3
47.5°	3929.9	1375.7	359.2	255.6	204.4	173.7	144.5	121.2	106.6	100.8	100.8
50°	4438.1	1515.9	331.5	226.4	186.9	154.8	124.1	105.2	93.5	89.1	89.1
52.5°	4956.5	1685.3	303.7	203.0	168.0	134.4	106.6	93.5	83.2	80.3	78.8
55°	5637.1	1901.4	274.5	178.1	147.5	115.3	94.9	81.7	70.1	65.7	64.3
57.5°	6684.2	2227.1	242.4	156.3	121.2	96.4	81.7	68.7	55.5	48.2	46.7
60°	7947.4	2624.3	208.8	137.3	97.9	78.8	65.7	52.5	40.9	32.1	30.7
62.5°	9130.3	2877.0	176.7	115.3	77.4	59.9	46.7	39.5	29.2	20.4	18.9
65°	9653.1	2792.3	146.0	93.5	61.3	42.4	30.7	27.7	17.5	8.8	7.3
66°	9479.3	2666.7	134.4	84.7	55.5	36.5	26.3	23.3	13.2	4.4	4.4
67.5°	8966.8	2370.2	116.8	73.1	48.2	29.2	20.4	17.5	7.3	1.5	0.0
70°	7683.0	1917.5	92.0	54.0	35.1	20.4	11.7	8.8	4.4	0.0	0.0
72.5°	5901.4	1428.3	73.1	40.9	24.8	11.7	5.9	2.9	4.4	0.0	0.0
75°	3615.9	816.4	56.9	30.7	16.1	7.3	4.4	0.0	4.4	1.5	0.0
77.5°	1605.0	366.5	38.0	20.4	11.7	5.9	2.9	0.0	2.9	1.5	0.0
80°	406.0	119.7	21.9	14.6	8.8	4.4	1.5	0.0	2.9	2.9	1.5
82.5°	111.0	43.8	16.1	11.7	7.3	4.4	1.5	0.0	2.9	2.9	2.9
85°	43.8	20.4	14.6	11.7	8.8	4.4	1.5	0.0	2.9	2.9	2.9
87.5°	20.4	14.6	14.6	13.2	10.3	4.4	1.5	0.0	2.9	1.5	2.9
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)