

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: P648060

Luminaire Tested: **GALN-SA7A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648060
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-SA7A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 18644.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

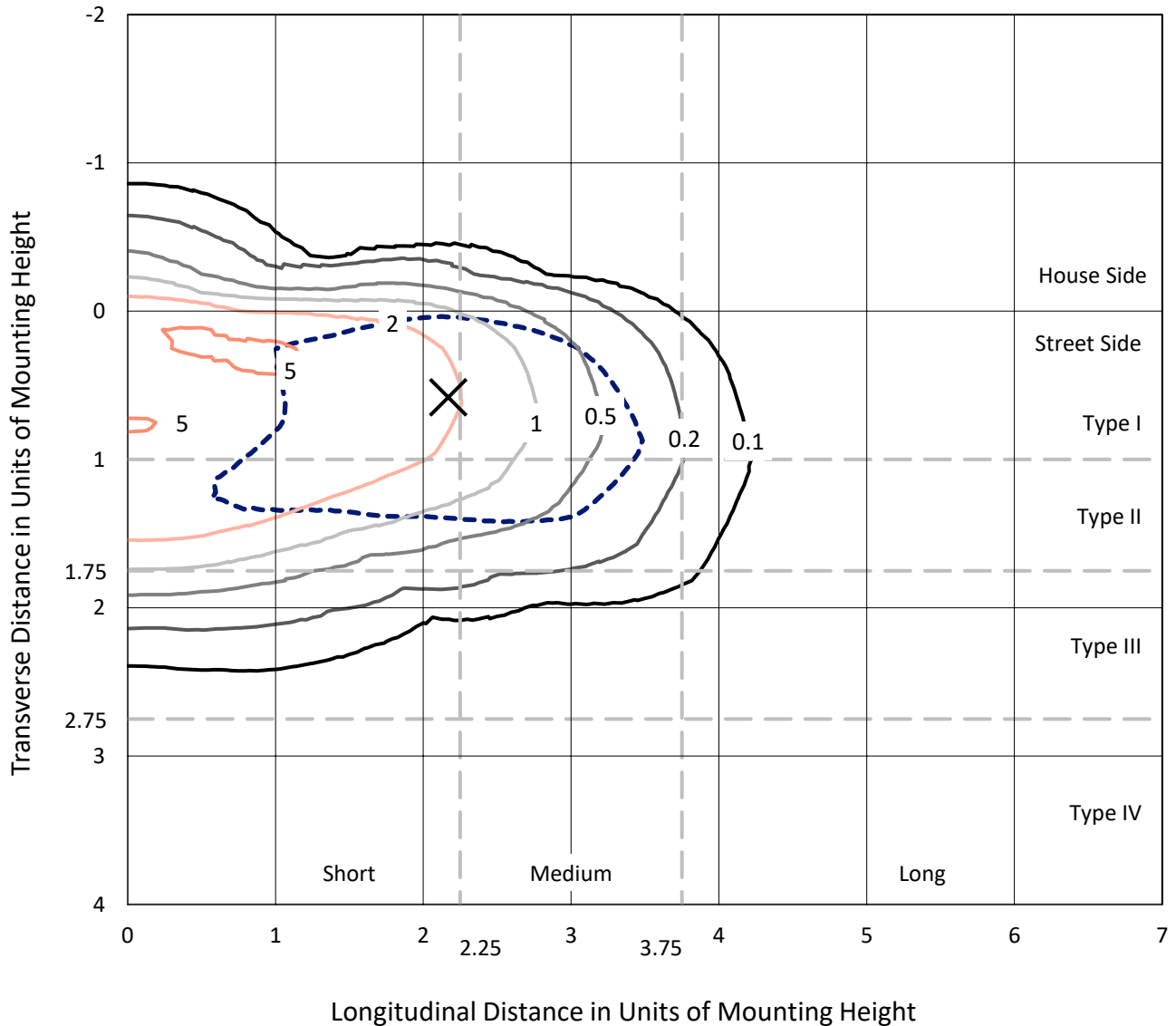
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

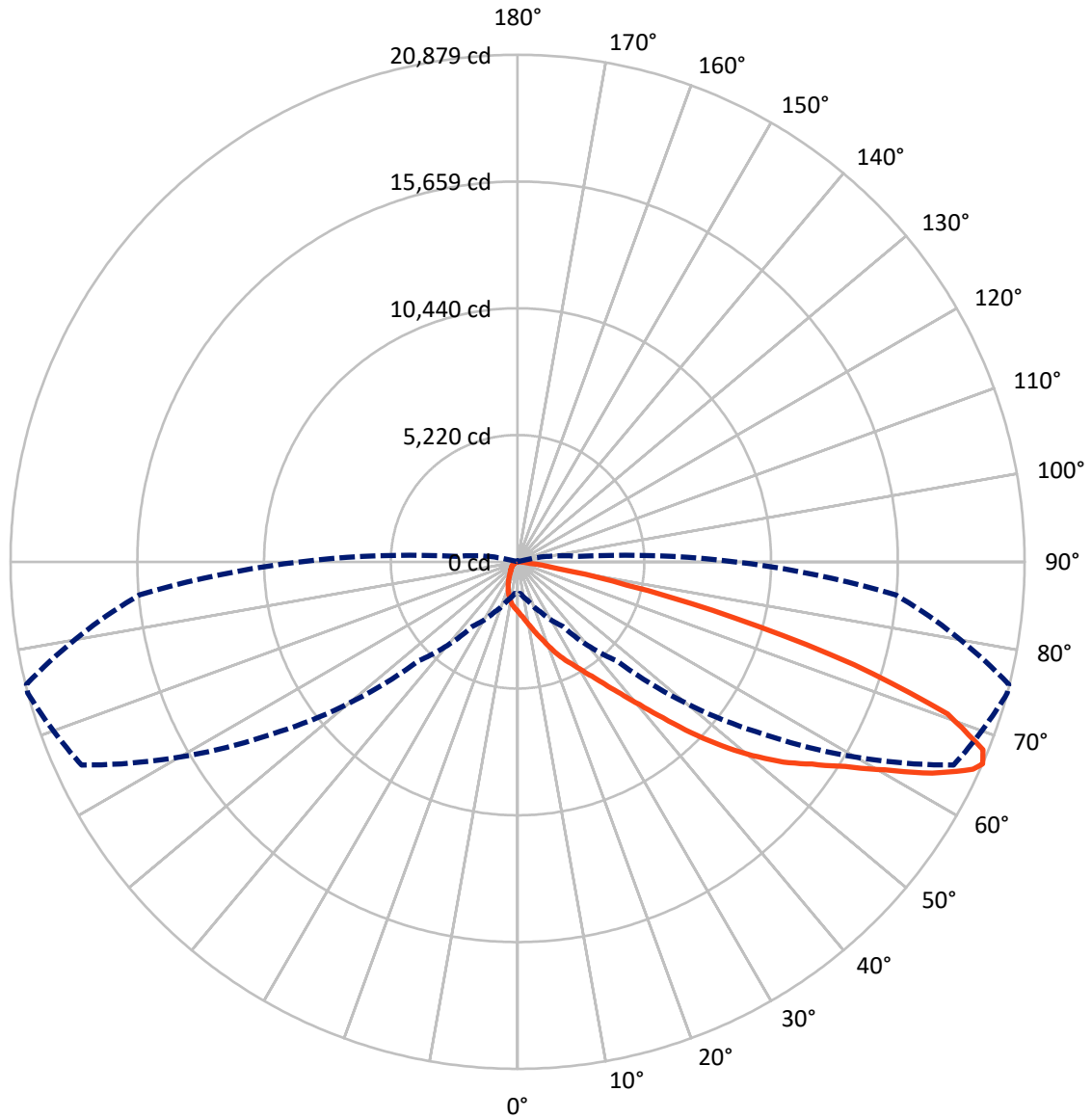
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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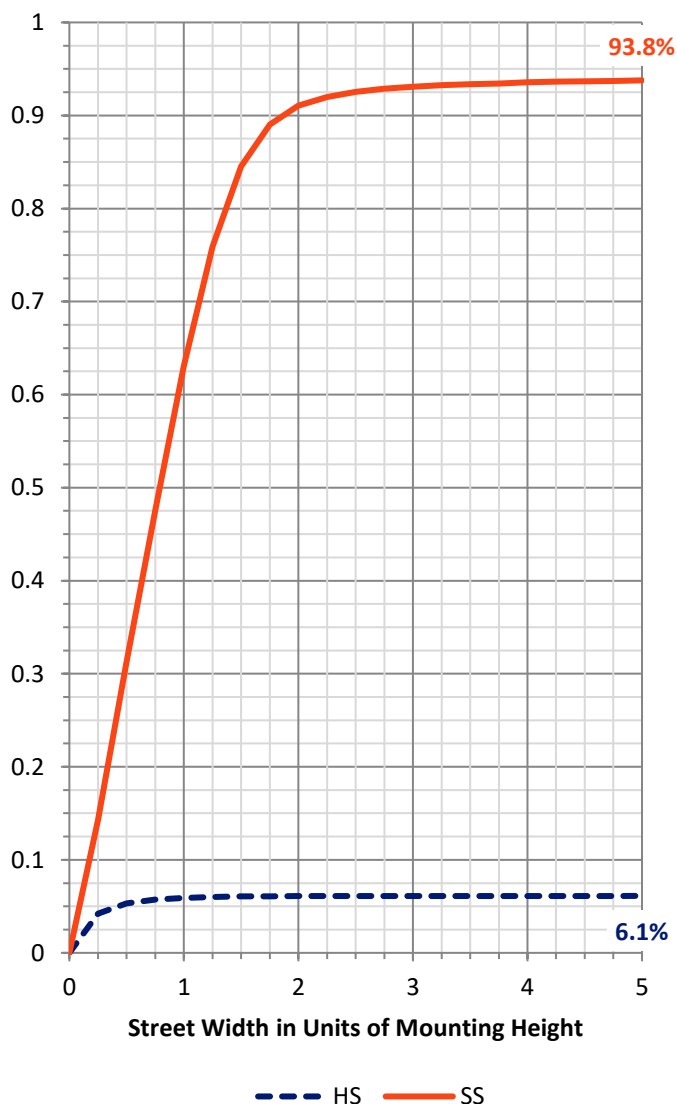
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.0	0.0	1151.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17493.8	0.0	17493.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	18644.8	0.0	18644.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.1
10°-20°	578.8	3.1
20°-30°	999.4	5.4
30°-40°	1802.8	9.7
40°-50°	3256.8	17.5
50°-60°	5077.4	27.2
60°-70°	4823.3	25.9
70°-80°	1807.7	9.7
80°-90°	102.0	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°	18644.8	100.0
0°-180°	18644.8	100.0

Coefficient of Utilization



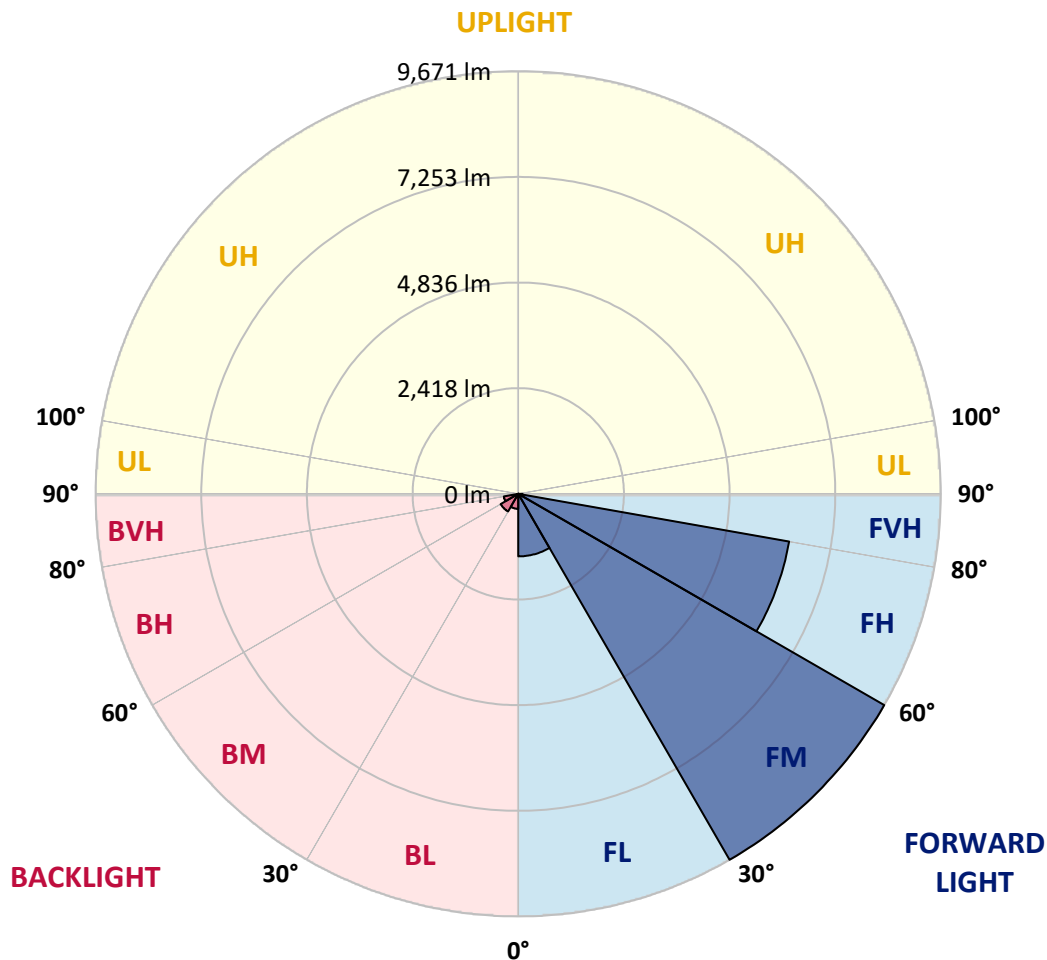
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.2	7.7			
FM (30°-60°)	9671.0	51.9			
FH (60°-80°)	6294.8	33.8			G3/7500
FVH (80°-90°)	96.7	0.5			G1/100
BL (0°-30°)	343.8	1.8	B1/500		
BM (30°-60°)	465.9	2.5	B1/1000		
BH (60°-80°)	336.1	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	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°	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0
2.5°	2436.1	2405.7	2415.3	2401.5	2369.8	2323.0	2281.7	2222.4	2163.0	2153.4	2087.2
5°	2757.3	2749.0	2738.0	2698.0	2675.9	2604.3	2518.8	2416.7	2294.0	2272.0	2152.1
7.5°	2976.5	2972.3	2977.8	2957.2	2937.9	2873.1	2782.1	2642.9	2452.6	2440.1	2240.2
10°	3048.1	3059.2	3079.9	3113.0	3143.3	3122.6	3053.7	2880.0	2658.0	2622.2	2340.9
12.5°	3006.8	3019.2	3068.8	3157.1	3254.9	3311.5	3283.9	3157.1	2875.8	2846.8	2453.9
15°	2900.6	2915.8	2986.1	3122.6	3297.7	3457.6	3526.6	3435.6	3129.5	3082.6	2590.5
17.5°	2743.5	2765.6	2866.2	3046.8	3286.6	3562.4	3756.8	3726.5	3399.7	3355.5	2739.3
20°	2624.9	2641.5	2727.0	2933.7	3239.7	3620.3	3976.0	4061.4	3733.3	3657.5	2914.4
22.5°	2703.5	2709.0	2738.0	2862.0	3155.6	3635.5	4169.0	4410.2	4087.7	4020.1	3096.4
25°	3088.2	3033.0	3004.1	2976.5	3137.8	3621.7	4344.1	4774.2	4440.5	4368.9	3277.0
27.5°	3694.7	3669.9	3523.8	3328.0	3290.8	3639.6	4459.9	5118.9	4772.8	4695.6	3453.5
30°	4355.1	4312.4	4222.7	3936.0	3647.8	3766.4	4544.0	5453.8	5165.7	5063.7	3614.8
32.5°	4961.7	4989.3	4855.5	4560.5	4226.9	4036.6	4652.9	5819.2	5616.5	5489.7	3802.2
35°	5668.9	5724.0	5518.7	5236.0	4845.9	4524.6	4865.2	6231.4	6188.7	6028.7	4091.8
37.5°	6387.2	6420.3	6294.9	5897.8	5546.2	5145.0	5265.0	6740.1	6893.1	6756.7	4437.8
40°	6991.0	7036.5	6944.2	6591.2	6216.2	5863.3	5845.4	7294.3	7731.3	7590.7	4953.4
42.5°	7452.9	7487.4	7490.1	7240.6	6902.8	6742.9	6585.7	8001.6	8781.9	8619.2	5551.7
45°	8036.0	8085.6	8056.7	7887.2	7634.9	7605.9	7524.6	8856.3	10039.2	9833.8	6327.9
47.5°	8937.6	8970.8	8899.0	8699.1	8442.7	8488.2	8440.0	9814.4	11321.3	11144.8	7131.6
50°	9563.6	9618.7	9720.7	9800.7	9614.5	9446.3	9303.0	10709.2	12538.6	12380.1	7953.3
52.5°	9556.7	9647.7	9970.3	10372.8	10779.5	10728.5	10316.3	11697.7	13700.9	13505.0	8725.4
55°	8912.8	9089.3	9563.6	10277.7	11404.0	11965.1	11777.7	12841.9	14704.4	14572.1	9620.1
57.5°	7583.8	7691.4	8350.4	9348.5	11055.3	12546.9	13470.6	14392.9	15908.0	15846.0	11009.8
60°	5100.9	5149.2	5997.1	7230.9	9411.9	11966.5	14711.3	16269.2	17390.0	17359.7	12632.4
62.5°	2922.7	2943.4	3558.3	4599.1	6697.4	10141.2	14816.2	18584.0	19167.1	19183.7	14510.1
65°	1573.0	1584.0	2080.4	2699.4	4075.2	7228.2	13323.1	19852.3	20603.6	20635.3	15673.6
66°	1358.0	1305.6	1655.7	2300.9	3242.6	5753.0	12378.7	19806.8	20879.3	20844.9	15632.3
67.5°	1032.6	1079.4	1322.1	1768.8	2402.9	4090.4	10219.8	18925.8	20669.8	20562.3	14996.7
70°	738.9	758.3	941.6	1261.4	1636.5	2244.4	6530.5	15719.1	18786.6	18641.8	13065.3
72.5°	477.0	497.7	667.3	912.7	1182.9	1225.6	3656.1	11357.2	14483.9	14463.2	9839.3
75°	340.5	359.8	441.1	653.5	889.3	758.3	1760.5	7654.1	9207.8	9145.8	6086.7
77.5°	246.8	256.4	295.0	427.4	635.6	543.2	816.1	4087.7	4583.9	4800.4	2689.7
80°	142.0	150.3	205.4	260.6	430.1	370.8	390.2	1640.5	1691.6	1610.2	840.9
82.5°	70.3	79.9	122.7	177.8	268.8	249.5	179.2	493.5	521.1	507.3	212.3
85°	16.5	20.7	68.9	117.2	131.0	111.7	86.8	144.8	179.2	175.1	81.4
87.5°	1.4	2.7	24.8	20.7	22.1	37.2	30.3	37.2	57.9	53.8	29.0
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°	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0
2.5°	2056.9	2030.7	1954.9	1880.5	1818.4	1753.6	1694.3	1659.9	1646.1	1630.9	1637.8
5°	2085.8	2022.4	1869.4	1737.1	1607.5	1497.2	1408.9	1352.4	1324.8	1320.8	1313.8
7.5°	2124.4	2015.5	1778.4	1571.6	1402.0	1279.3	1178.7	1097.4	1072.6	1050.6	1032.6
10°	2171.3	2003.1	1665.4	1398.0	1217.3	1062.9	930.6	834.1	784.4	770.6	780.3
12.5°	2221.0	1979.7	1546.8	1238.0	1029.8	832.7	710.0	661.7	647.9	642.5	643.8
15°	2270.6	1950.8	1422.7	1083.6	820.3	664.5	608.0	595.5	590.1	587.3	584.5
17.5°	2316.1	1903.9	1283.5	933.3	664.5	568.0	547.3	536.3	525.2	521.1	514.2
20°	2369.8	1850.2	1158.1	765.1	562.5	514.2	489.4	468.7	452.2	441.1	439.8
22.5°	2420.9	1781.2	1027.1	634.2	512.9	461.8	421.9	399.8	380.5	366.7	370.8
25°	2448.4	1697.1	909.9	552.8	467.4	409.4	365.3	337.8	317.1	310.2	308.8
27.5°	2448.4	1593.7	795.4	506.0	426.0	362.6	317.1	290.9	277.1	267.5	268.8
30°	2429.2	1479.2	689.4	470.1	390.2	321.2	278.5	255.0	244.0	237.1	235.8
32.5°	2414.0	1370.3	598.3	435.7	352.9	285.4	248.1	230.2	219.2	212.3	212.3
35°	2437.4	1276.6	528.0	401.2	318.4	257.8	224.7	208.2	197.2	191.6	190.3
37.5°	2499.5	1191.1	474.3	363.9	286.7	234.4	208.2	188.9	177.8	170.9	168.2
40°	2652.5	1142.9	434.3	329.5	256.4	215.1	188.9	170.9	157.1	150.3	148.9
42.5°	2897.9	1144.3	395.6	297.8	233.0	198.5	172.3	151.7	136.5	129.6	128.2
45°	3267.4	1196.7	365.3	267.5	212.3	180.6	154.4	132.3	118.5	111.7	111.7
47.5°	3709.9	1298.7	339.1	241.2	193.0	164.0	136.5	114.4	100.6	95.1	95.1
50°	4189.7	1431.0	313.0	213.7	176.5	146.1	117.2	99.3	88.2	84.1	84.1
52.5°	4679.1	1590.9	286.7	191.6	158.6	126.8	100.6	88.2	78.6	75.8	74.5
55°	5321.5	1794.9	259.2	168.2	139.2	108.9	89.6	77.2	66.2	62.0	60.7
57.5°	6310.0	2102.4	228.9	147.5	114.4	91.0	77.2	64.8	52.4	45.5	44.1
60°	7502.5	2477.4	197.2	129.6	92.4	74.5	62.0	49.6	38.6	30.3	29.0
62.5°	8619.2	2715.9	166.8	108.9	73.1	56.5	44.1	37.2	27.6	19.3	17.9
65°	9112.7	2636.0	137.9	88.2	57.9	40.0	29.0	26.2	16.5	8.3	6.9
66°	8948.7	2517.3	126.8	79.9	52.4	34.5	24.8	22.1	12.4	4.1	4.1
67.5°	8464.8	2237.5	110.3	68.9	45.5	27.6	19.3	16.5	6.9	1.4	0.0
70°	7253.0	1810.1	86.8	51.0	33.1	19.3	11.0	8.3	4.1	0.0	0.0
72.5°	5571.0	1348.3	68.9	38.6	23.4	11.0	5.5	2.7	4.1	0.0	0.0
75°	3413.5	770.6	53.8	29.0	15.2	6.9	4.1	0.0	4.1	1.4	0.0
77.5°	1515.1	346.0	35.9	19.3	11.0	5.5	2.7	0.0	2.7	1.4	0.0
80°	383.3	113.1	20.7	13.8	8.3	4.1	1.4	0.0	2.7	2.7	1.4
82.5°	104.8	41.3	15.2	11.0	6.9	4.1	1.4	0.0	2.7	2.7	2.7
85°	41.3	19.3	13.8	11.0	8.3	4.1	1.4	0.0	2.7	2.7	2.7
87.5°	19.3	13.8	13.8	12.4	9.6	4.1	1.4	0.0	2.7	1.4	2.7
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)