

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: P651976

Luminaire Tested: **GALN-SA6A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17856.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

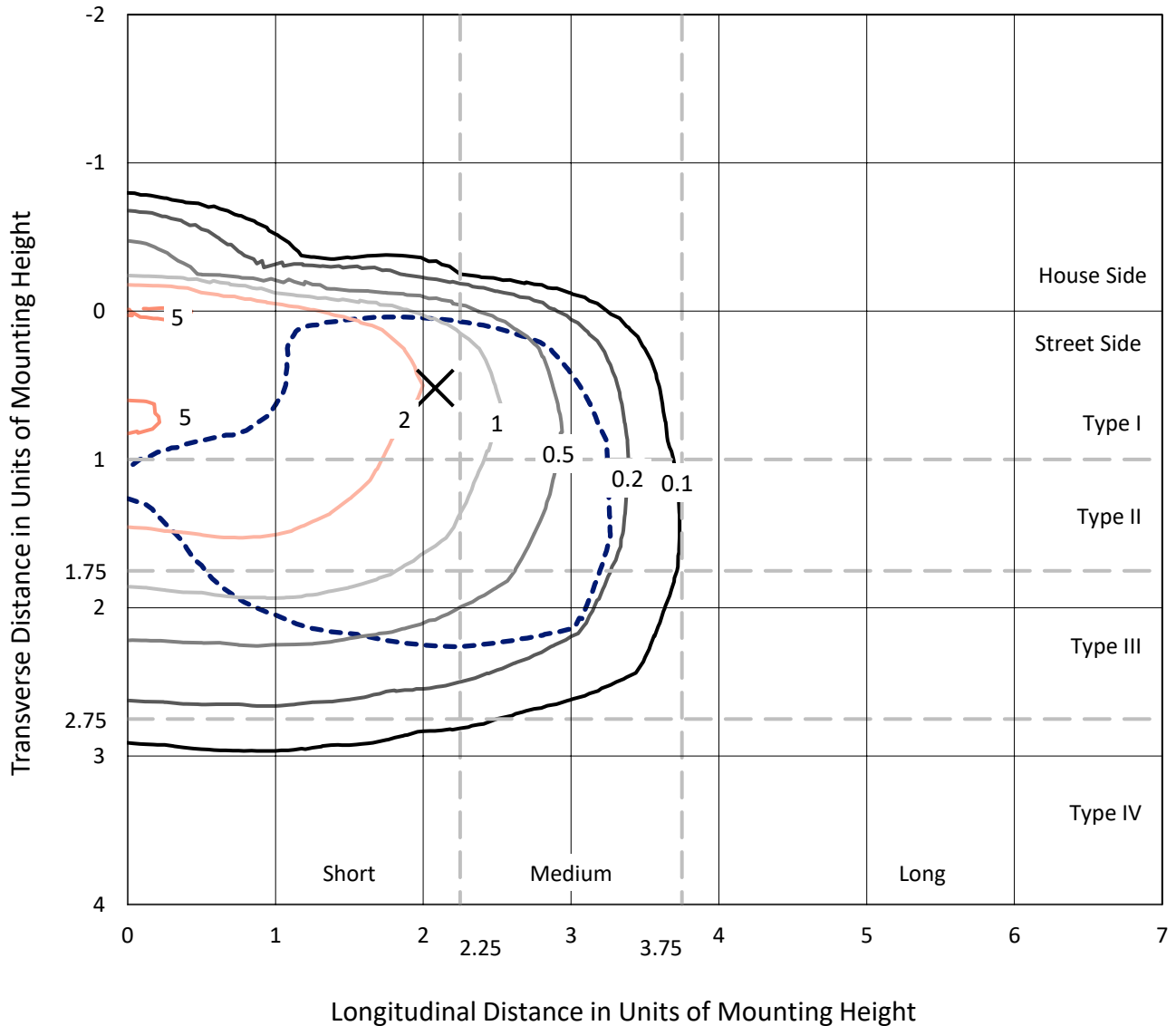
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

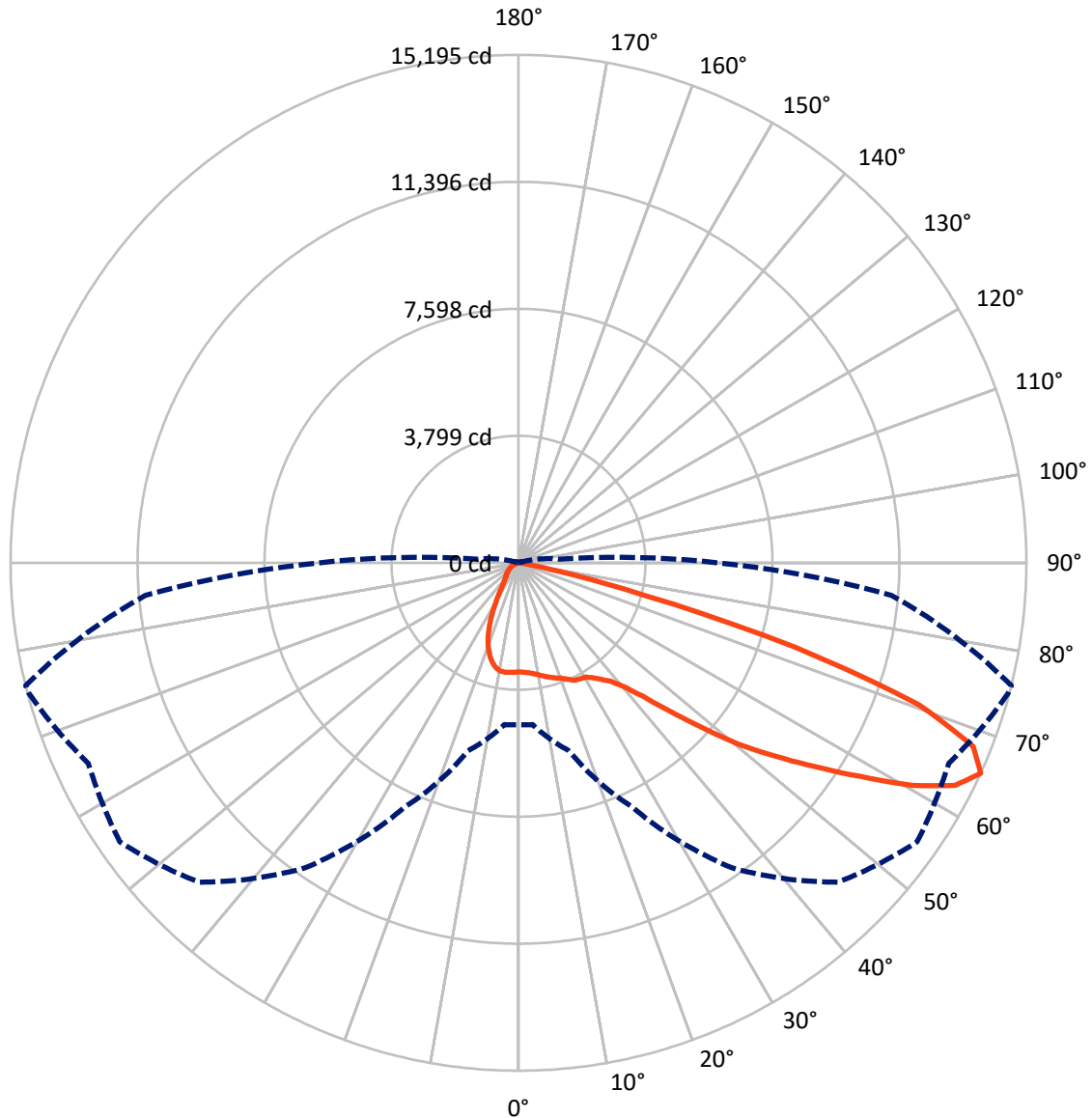
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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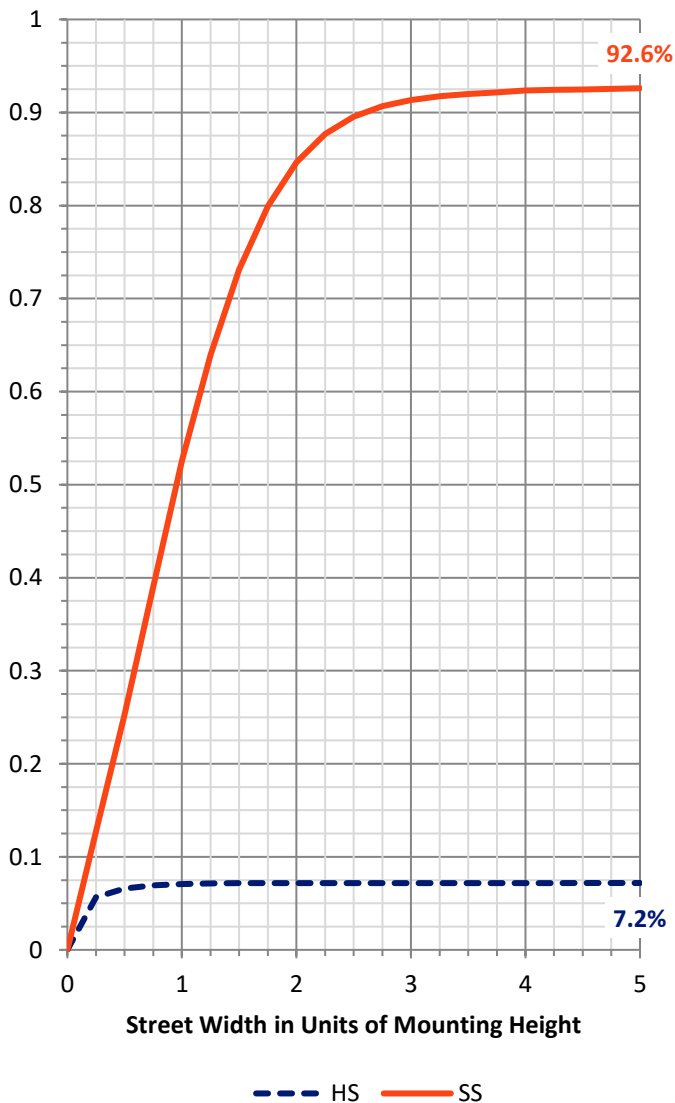
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.6	0.0	1289.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16566.6	0.0	16566.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	17856.1	0.0	17856.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	1.5
10°-20°	599.1	3.4
20°-30°	965.4	5.4
30°-40°	1678.7	9.4
40°-50°	2773.9	15.5
50°-60°	4285.1	24.0
60°-70°	5232.7	29.3
70°-80°	1985.9	11.1
80°-90°	66.3	0.4
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°	17856.1	100.0
0°-180°	17856.1	100.0

Coefficient of Utilization



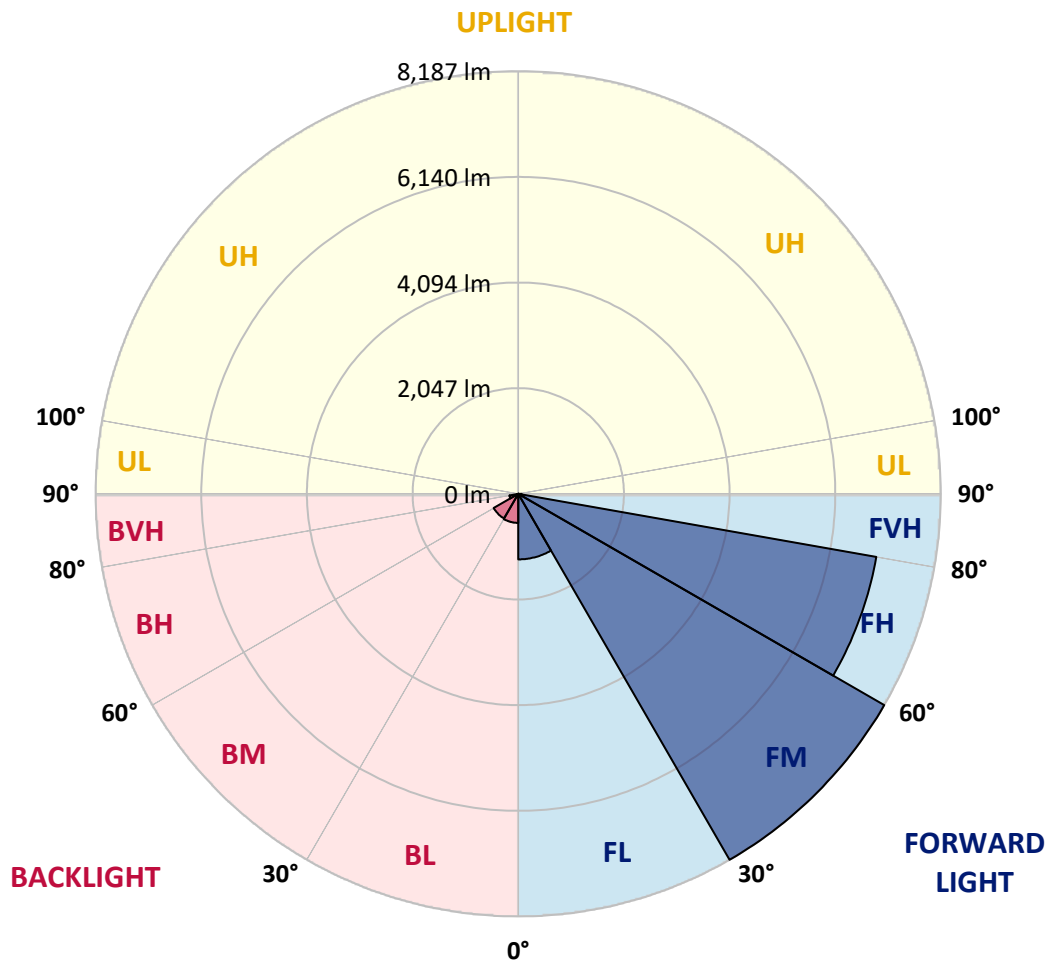
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.3	7.1			
FM (30°-60°)	8187.3	45.9			
FH (60°-80°)	7043.6	39.4			G3/7500
FVH (80°-90°)	65.4	0.4			G1/100
BL (0°-30°)	563.4	3.2	B2/1000		
BM (30°-60°)	550.3	3.1	B1/1000		
BH (60°-80°)	175.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3121.5	3122.7	3130.3	3149.2	3178.2	3202.2	3222.3	3255.1	3277.8	3280.3	3287.9
5°	2905.9	2890.8	2905.9	2955.0	2999.2	3066.0	3147.9	3229.9	3303.0	3308.1	3343.4
7.5°	2663.9	2676.5	2700.4	2750.8	2834.0	2936.2	3054.7	3200.9	3339.6	3352.1	3421.5
10°	2418.0	2445.7	2484.8	2561.7	2677.7	2810.1	2971.4	3180.7	3397.6	3415.2	3535.0
12.5°	2191.1	2203.7	2251.6	2355.0	2498.7	2685.3	2908.4	3169.4	3461.9	3483.3	3656.0
15°	2017.1	2033.5	2075.1	2168.4	2328.5	2568.0	2856.7	3165.6	3524.9	3555.2	3777.0
17.5°	1984.3	1994.4	2012.1	2075.1	2215.0	2474.7	2810.1	3164.3	3585.4	3621.9	3889.2
20°	2119.2	2110.4	2092.7	2086.4	2163.4	2402.9	2776.1	3174.4	3643.4	3685.0	4007.7
22.5°	2457.1	2468.4	2365.1	2242.8	2217.5	2391.6	2771.0	3222.3	3735.5	3784.6	4140.1
25°	3174.4	3087.4	2926.1	2633.6	2413.0	2460.9	2827.7	3335.8	3842.6	3896.8	4259.9
27.5°	3967.4	3940.9	3690.1	3208.5	2797.5	2607.1	2928.6	3422.8	3877.9	3933.4	4328.0
30°	4746.5	4778.1	4490.6	3958.6	3355.9	2878.2	3023.1	3455.6	3909.4	3967.4	4414.9
32.5°	5468.9	5506.7	5254.6	4727.6	4014.0	3347.1	3185.8	3582.9	4041.8	4101.1	4559.9
35°	6037.5	6042.5	5852.1	5432.4	4732.6	3917.0	3537.5	3806.0	4220.8	4290.1	4713.7
37.5°	6559.4	6551.8	6328.7	5966.9	5331.4	4483.0	3980.0	4063.2	4425.0	4496.9	4935.6
40°	6946.4	6951.5	6879.6	6539.2	5889.9	5006.2	4330.5	4304.0	4768.0	4880.2	5258.4
42.5°	7204.8	7251.5	7286.8	7114.1	6592.2	5650.4	4868.8	4819.6	5363.0	5456.2	5714.7
45°	7414.1	7497.3	7673.9	7665.0	7266.7	6440.9	5607.5	5506.7	6206.4	6306.0	6295.9
47.5°	7566.6	7651.2	7943.6	8120.1	7900.8	7207.4	6536.7	6449.7	7213.7	7322.1	6937.6
50°	7644.9	7745.7	8118.8	8460.5	8396.2	7946.1	7595.7	7600.7	8430.3	8534.9	7681.4
52.5°	7462.0	7593.1	8212.1	8827.4	8952.2	8653.4	8587.9	8754.2	9513.1	9602.7	8353.3
55°	6878.4	7043.5	8084.8	9140.0	9596.4	9488.0	9714.9	9968.3	10696.9	10755.0	9042.9
57.5°	6508.9	6684.2	7709.1	9406.0	10370.5	10536.9	10896.2	11081.5	11918.6	12066.1	9834.7
60°	6197.6	6335.0	7400.3	9462.8	11157.1	11820.3	12169.4	12361.1	13426.4	13522.2	10705.8
62.5°	5679.4	5837.0	6878.4	9066.9	11553.0	12847.7	13571.4	13485.6	14592.5	14659.3	11240.3
65°	4846.1	4860.0	5819.4	8072.2	11144.5	13514.6	14555.9	14196.7	15149.8	15195.1	11198.8
67.5°	3616.9	3750.5	4476.7	6345.1	9413.6	12944.8	14874.9	14215.6	14798.0	14671.9	10309.9
70°	2329.7	2431.8	3034.5	4399.8	6787.5	10802.9	13817.2	13241.0	12987.6	12707.8	8439.1
72.5°	1075.4	1206.5	1802.8	2513.8	4025.4	7695.2	11216.4	10757.5	9348.1	8657.2	5364.2
75°	468.9	501.7	890.0	1326.3	1887.3	4069.5	7395.2	6677.9	4222.1	3856.5	2147.0
77.5°	286.2	307.6	466.4	711.1	741.3	1550.6	3983.8	2913.5	1304.8	1151.0	582.5
80°	194.2	218.1	339.1	371.9	253.4	432.4	1495.2	777.8	263.5	252.1	124.8
82.5°	94.5	119.8	250.9	208.0	109.7	138.7	435.0	166.4	76.9	71.8	44.2
85°	13.9	24.0	141.2	136.2	49.2	32.8	76.9	41.6	26.5	25.2	20.2
87.5°	0.0	0.0	47.9	21.4	5.0	5.0	8.8	8.8	10.1	8.8	10.1
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°	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3291.7	3298.0	3274.0	3240.0	3203.5	3166.9	3115.1	3068.6	3040.8	3057.2	3016.8
5°	3350.9	3345.8	3282.8	3179.5	3042.1	2876.9	2713.0	2573.0	2527.7	2459.6	2452.0
7.5°	3432.9	3419.0	3285.4	3048.4	2738.2	2428.1	2125.5	1925.0	1810.3	1713.3	1715.8
10°	3547.6	3507.2	3256.4	2817.7	2307.0	1839.4	1453.6	1188.8	1074.1	1037.5	1008.5
12.5°	3666.1	3588.0	3175.7	2506.3	1796.5	1256.9	883.7	722.3	651.8	629.1	626.5
15°	3772.0	3648.4	3034.5	2131.9	1306.1	803.1	602.6	549.7	540.8	542.1	540.8
17.5°	3876.6	3696.4	2839.0	1734.7	887.5	576.2	518.1	505.5	509.3	514.4	513.1
20°	3963.6	3706.5	2589.4	1323.7	627.8	505.5	486.6	484.1	487.9	491.6	491.6
22.5°	4058.2	3714.0	2293.2	916.5	513.1	470.2	460.1	460.1	465.2	470.2	471.5
25°	4128.8	3672.4	1938.9	658.1	452.6	436.2	431.2	432.4	437.5	440.0	438.7
27.5°	4140.1	3555.2	1563.3	504.3	411.0	394.6	389.6	394.6	388.3	392.1	389.6
30°	4150.2	3406.4	1182.5	424.9	373.2	347.9	340.4	332.8	327.8	321.5	320.3
32.5°	4181.7	3231.1	863.5	382.0	337.8	310.2	292.5	271.1	254.7	249.6	248.3
35°	4195.6	3020.6	634.1	347.9	306.4	276.1	244.6	214.3	190.4	181.6	187.9
37.5°	4248.6	2816.4	491.6	322.8	278.6	240.8	200.4	162.6	139.9	134.9	137.4
40°	4357.0	2594.5	412.3	301.3	254.7	208.0	158.9	122.3	107.1	102.1	100.8
42.5°	4530.9	2373.9	366.8	281.1	230.7	175.3	124.8	95.8	83.2	79.4	79.4
45°	4742.7	2162.1	335.3	259.7	205.5	141.2	98.3	76.9	69.3	66.8	66.8
47.5°	5021.4	1976.8	308.9	238.3	177.8	112.2	79.4	66.8	61.8	63.1	64.3
50°	5303.8	1839.4	279.9	214.3	146.2	92.0	68.0	59.3	58.0	59.3	59.3
52.5°	5516.8	1758.7	240.8	181.6	114.7	76.9	60.6	55.5	54.2	51.7	51.7
55°	5804.2	1741.0	191.7	147.5	90.7	64.3	54.2	50.5	46.7	44.2	42.9
57.5°	6173.6	1761.2	147.5	114.7	70.6	53.0	47.9	41.6	36.6	31.5	31.5
60°	6403.0	1715.8	114.7	88.2	51.7	42.9	36.6	30.3	24.0	20.2	18.9
62.5°	6330.0	1524.1	90.7	65.6	36.6	31.5	24.0	20.2	13.9	10.1	8.8
65°	5953.0	1230.5	73.1	45.4	26.5	18.9	12.6	12.6	6.3	1.3	0.0
67.5°	5210.4	911.5	58.0	30.3	15.1	8.8	6.3	3.8	0.0	0.0	0.0
70°	4241.0	658.1	45.4	18.9	8.8	6.3	2.5	1.3	0.0	0.0	0.0
72.5°	2692.8	376.9	35.3	11.4	6.3	2.5	0.0	0.0	0.0	0.0	0.0
75°	1041.3	147.5	24.0	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	295.0	69.3	13.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.9	30.3	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	12.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	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)