

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: P651772

Luminaire Tested: **GALN-SA3A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8564.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

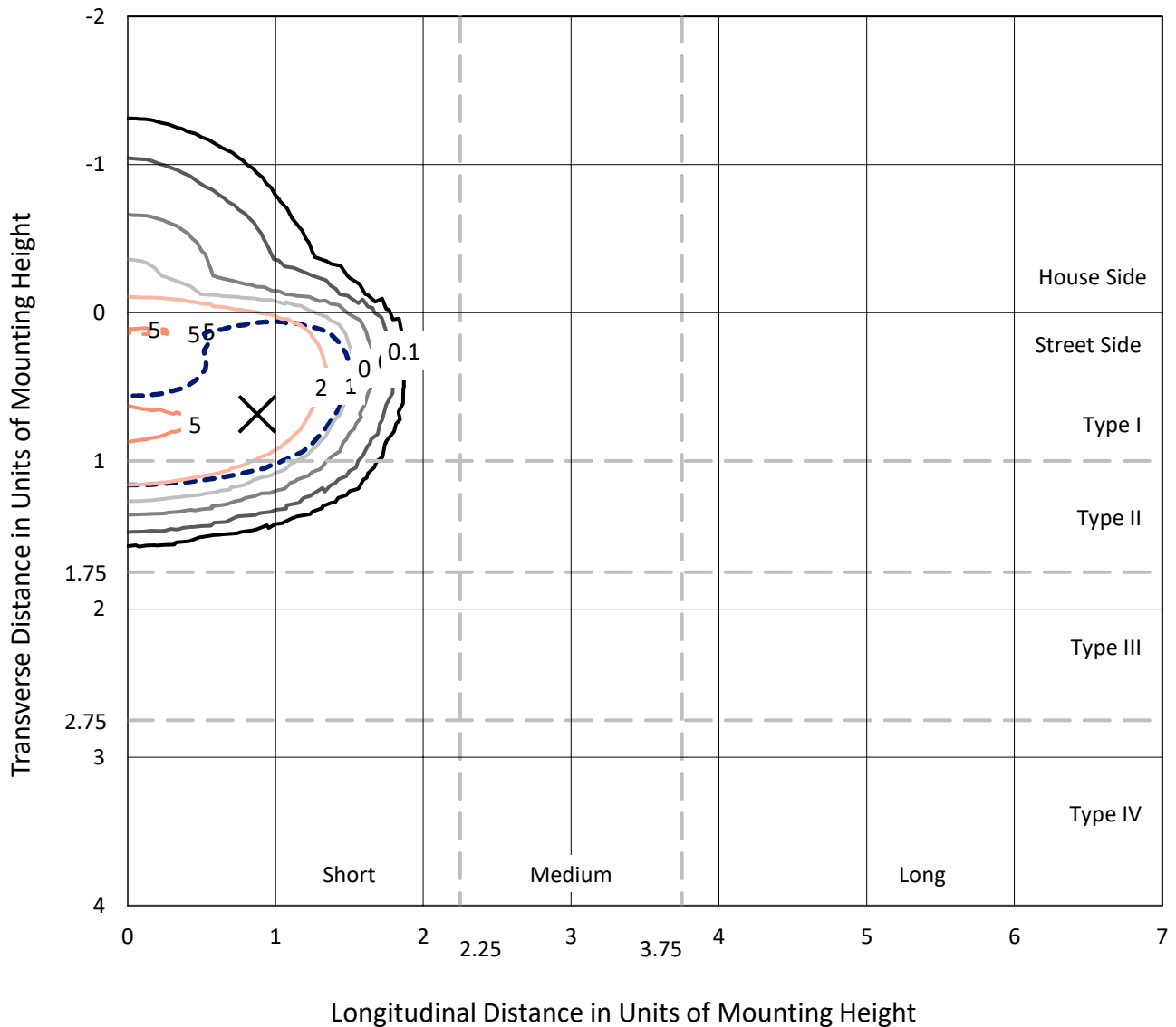
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

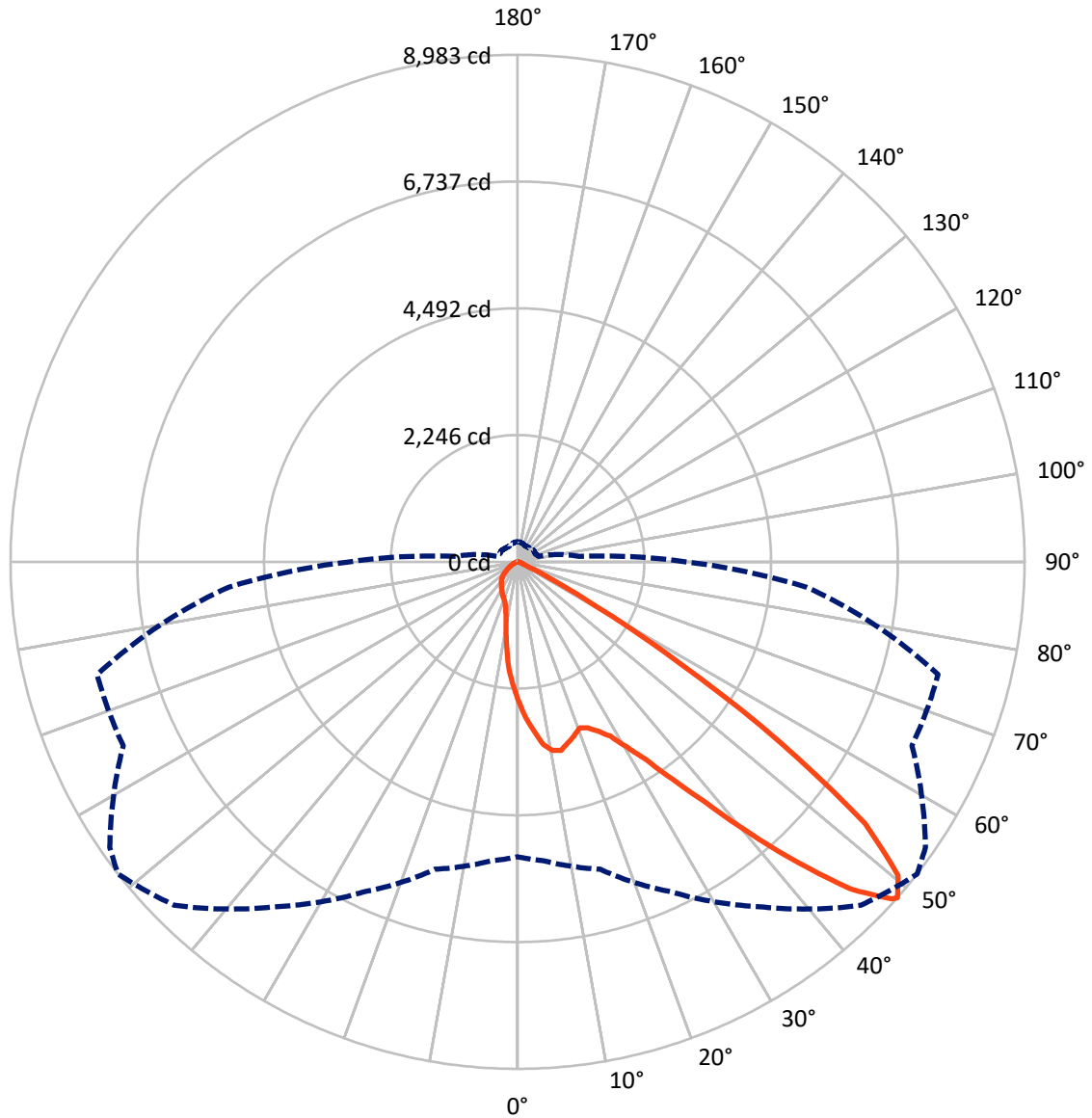
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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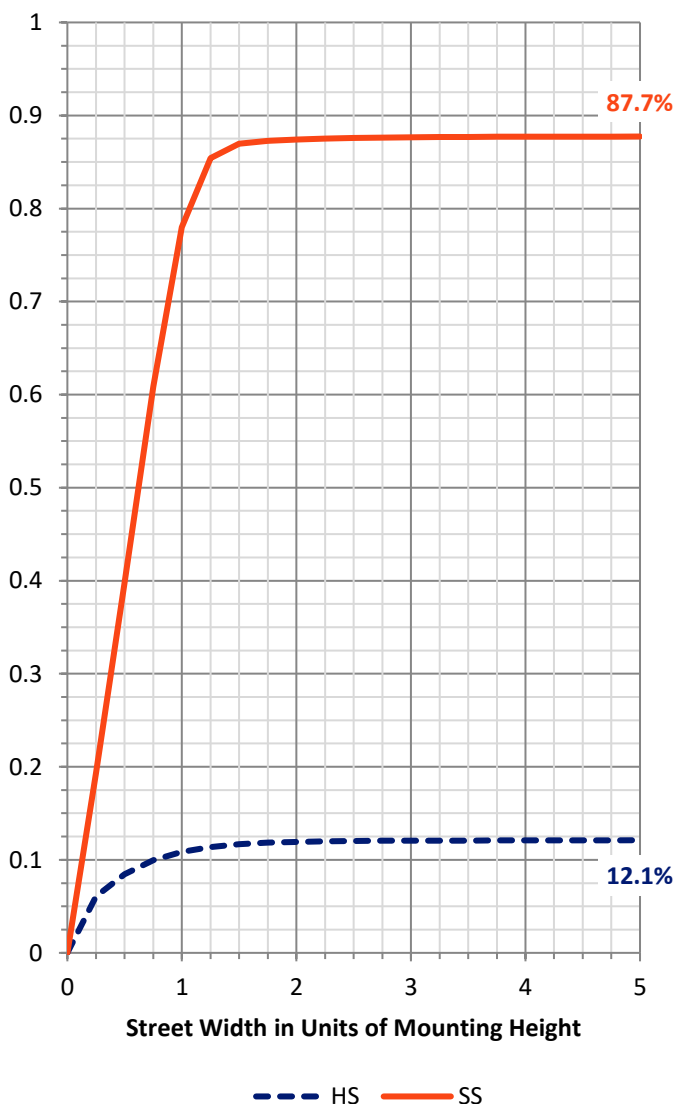
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.8	0.0	1042.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7521.9	0.0	7521.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	8564.8	0.0	8564.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	2.6
10°-20°	591.6	6.9
20°-30°	1010.1	11.8
30°-40°	1860.2	21.7
40°-50°	2888.8	33.7
50°-60°	1738.6	20.3
60°-70°	201.1	2.3
70°-80°	38.9	0.5
80°-90°	9.0	0.1
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°	8564.8	100.0
0°-180°	8564.8	100.0

Coefficient of Utilization

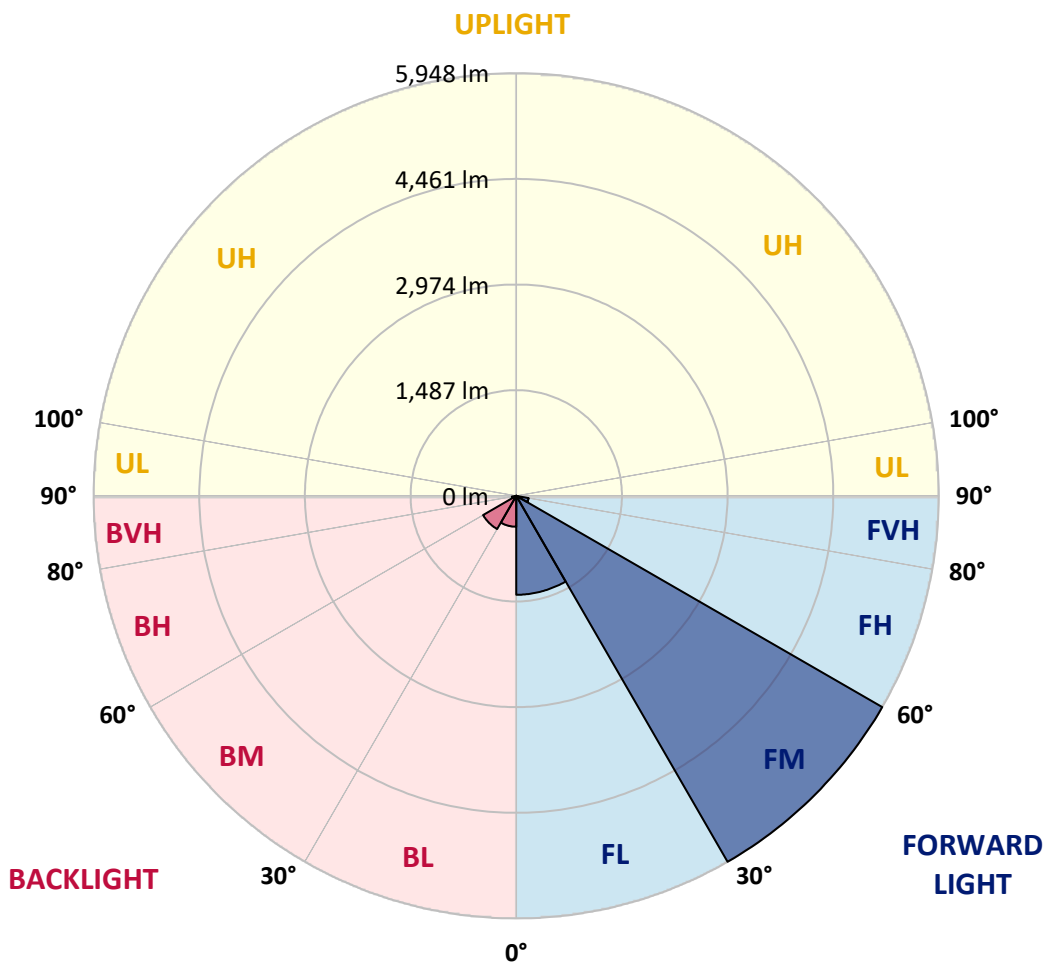


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.5	16.3			
FM (30°-60°)	5948.0	69.4			
FH (60°-80°)	177.1	2.1			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	435.6	5.1	B1/500		
BM (30°-60°)	539.5	6.3	B1/1000		
BH (60°-80°)	62.9	0.7	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4
2.5°	2997.7	2929.0	2935.3	2890.3	2864.1	2821.7	2764.3	2753.0	2690.6	2605.7	2519.6
5°	3267.5	3251.2	3272.4	3207.5	3210.0	3140.0	3005.2	3007.8	2864.1	2725.6	2592.0
7.5°	3284.9	3247.4	3268.7	3326.1	3359.8	3347.3	3271.2	3205.0	3068.9	2865.4	2670.6
10°	2941.6	3012.7	3035.2	3130.1	3264.9	3407.2	3398.6	3402.3	3288.6	3022.7	2738.0
12.5°	2735.5	2688.1	2764.3	2821.7	3025.2	3301.2	3427.2	3454.7	3463.4	3175.0	2805.5
15°	2641.9	2641.9	2654.4	2670.6	2817.9	3072.7	3329.9	3409.8	3598.3	3374.8	2911.6
17.5°	2700.6	2698.1	2715.6	2681.9	2736.8	2932.8	3240.0	3331.1	3749.3	3570.8	2995.2
20°	2879.2	2887.9	2876.6	2779.3	2783.0	2930.3	3140.0	3283.7	3851.8	3740.6	3106.4
22.5°	3127.6	3132.6	3068.9	2962.8	2931.6	3004.0	3197.5	3307.4	3934.1	3944.1	3140.0
25°	3414.7	3394.8	3382.3	3232.5	3137.6	3200.0	3327.3	3391.0	3985.3	4119.0	3236.3
27.5°	3813.0	3773.1	3697.0	3563.3	3493.4	3404.8	3495.9	3600.8	4131.4	4363.6	3341.1
30°	4401.1	4366.1	4217.5	4045.3	3861.7	3774.3	3803.1	3860.4	4394.9	4647.0	3479.6
32.5°	5286.3	5212.7	4997.9	4669.6	4419.8	4178.8	4171.4	4232.6	4630.8	5039.1	3644.5
35°	6261.4	6239.0	5923.1	5584.7	5101.5	4729.4	4735.7	4768.1	5082.8	5553.5	3860.4
37.5°	6909.4	7033.0	6832.0	6468.7	6062.9	5531.0	5396.2	5407.5	5703.3	6162.8	4250.0
40°	7410.1	7305.2	7328.9	7244.0	6966.8	6604.8	6306.4	6247.7	6421.2	6837.0	4637.1
42.5°	7191.6	7196.6	7342.7	7543.7	7612.3	7586.2	7281.5	7170.4	7035.6	7388.9	5005.4
45°	6574.8	6703.4	6893.2	7425.0	7892.0	8330.3	8270.3	8085.5	7460.0	7825.8	5217.6
47.5°	5591.0	5585.9	5896.8	6588.6	7626.1	8652.4	8924.5	8794.7	7760.9	7777.1	5173.9
48°	5227.7	5317.6	5638.4	6452.5	7457.5	8604.9	8983.2	8819.7	7709.7	7712.2	5136.5
50°	3864.2	3848.0	4247.6	5246.3	6661.0	8085.5	8736.1	8863.4	7708.5	7383.9	4874.3
52.5°	2041.4	2111.2	2402.1	3298.7	4709.5	6617.2	7706.0	7904.5	7436.3	6847.0	4497.2
55°	867.7	784.1	1007.6	1489.5	2649.4	4421.1	5653.4	6095.4	6287.7	6059.2	3934.1
57.5°	309.7	338.3	389.6	560.6	1113.7	2419.6	3371.1	3714.4	4356.1	4446.0	2680.6
60°	198.5	202.3	218.5	257.2	418.2	932.7	1599.4	1872.8	2163.7	2233.6	1251.1
62.5°	153.6	154.8	162.3	168.5	198.5	362.1	600.6	711.7	739.2	635.5	328.3
65°	128.6	129.9	132.4	132.4	141.1	169.8	209.7	230.9	224.7	222.3	186.0
67.5°	98.6	101.2	106.1	106.1	111.1	103.6	116.1	123.6	139.9	169.8	158.5
70°	77.4	78.6	82.4	84.9	84.9	74.9	83.7	91.2	102.3	126.1	124.9
72.5°	60.0	62.4	64.9	64.9	61.1	51.2	60.0	66.2	73.7	87.4	84.9
75°	46.2	46.2	47.4	38.7	29.9	26.2	36.2	43.7	54.9	57.4	47.4
77.5°	12.4	13.7	12.4	11.3	12.4	18.8	23.7	27.5	35.0	35.0	31.2
80°	0.0	1.3	3.8	7.5	12.4	17.5	21.2	23.7	27.5	29.9	28.7
82.5°	0.0	1.3	3.8	7.5	11.3	13.7	18.8	20.0	22.5	26.2	26.2
85°	0.0	1.3	2.5	5.0	7.5	8.7	8.7	7.5	7.5	6.2	5.0
87.5°	0.0	0.0	1.3	2.5	2.5	3.8	3.8	3.8	3.8	3.8	3.8
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°	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4	2473.4
2.5°	2485.8	2447.1	2388.4	2296.1	2207.5	2150.0	2095.0	2033.9	2000.2	1997.6	1979.0
5°	2515.8	2428.4	2288.6	2130.0	1960.2	1814.1	1666.8	1570.7	1484.5	1437.1	1428.4
7.5°	2532.0	2418.4	2192.4	1926.5	1636.8	1398.3	1233.6	1112.5	1065.0	1030.1	1028.8
10°	2565.7	2401.0	2048.8	1656.8	1298.5	1057.5	943.9	888.9	862.8	852.8	837.8
12.5°	2590.7	2368.5	1901.5	1379.7	1026.3	876.5	826.5	814.1	815.3	820.3	814.1
15°	2625.7	2339.7	1703.0	1132.4	861.5	789.1	789.1	791.5	809.0	811.6	810.3
17.5°	2623.2	2283.6	1498.2	932.7	761.6	751.6	755.4	779.1	790.3	794.1	785.3
20°	2653.2	2231.2	1287.2	796.6	705.4	720.4	745.4	751.6	765.4	767.8	757.8
22.5°	2644.4	2100.1	1091.2	689.2	663.0	691.7	716.7	724.2	720.4	712.9	711.7
25°	2628.2	1987.7	911.4	618.1	631.8	663.0	686.7	673.0	665.5	666.7	668.0
27.5°	2599.4	1845.3	762.9	568.1	589.3	635.5	634.3	629.2	636.7	630.5	636.7
30°	2594.5	1703.0	640.5	523.1	558.1	591.8	594.3	603.1	611.7	600.6	611.7
32.5°	2602.0	1546.9	553.1	495.7	539.3	540.6	568.1	576.8	570.6	545.6	548.1
35°	2659.4	1427.1	489.5	480.7	509.4	510.7	536.9	525.6	498.2	483.2	491.9
37.5°	2780.5	1327.2	459.4	466.9	469.4	485.7	486.9	464.5	466.9	465.7	470.7
40°	2935.3	1251.1	438.2	454.5	452.0	463.2	418.2	430.8	441.9	445.7	448.3
42.5°	3041.5	1196.1	424.5	434.5	429.5	409.5	384.6	397.0	405.8	419.5	422.0
45°	3088.9	1152.4	408.3	399.6	399.6	363.3	353.3	355.8	375.8	390.8	388.3
47.5°	3011.5	1110.0	379.5	353.3	362.1	332.1	320.8	320.8	342.1	360.8	357.1
48°	2981.5	1092.5	380.8	343.4	349.6	327.1	315.9	313.4	337.1	354.6	354.6
50°	2832.9	1027.5	348.3	315.9	303.4	300.9	293.4	295.9	310.9	327.1	327.1
52.5°	2543.3	887.7	294.7	271.0	248.4	263.4	267.2	262.2	269.7	284.7	283.4
55°	2122.5	681.7	236.0	224.7	207.2	223.5	230.9	224.7	217.2	228.5	228.5
57.5°	1359.6	367.1	188.6	191.0	173.6	189.8	196.0	181.1	167.3	176.0	174.8
60°	613.0	219.8	154.8	151.0	139.9	158.5	168.5	151.0	132.4	138.6	144.8
62.5°	229.8	156.1	117.4	114.9	112.4	129.9	134.8	121.1	102.3	106.1	107.4
65°	168.5	137.3	93.6	84.9	89.9	102.3	99.9	86.1	73.7	73.7	76.2
67.5°	143.6	119.8	76.2	66.2	66.2	67.4	62.4	54.9	51.2	53.7	56.2
70°	112.4	94.9	60.0	51.2	46.2	41.2	36.2	35.0	31.2	35.0	33.7
72.5°	72.4	63.7	46.2	38.7	35.0	28.7	23.7	22.5	18.8	17.5	17.5
75°	38.7	38.7	36.2	31.2	27.5	22.5	18.8	15.0	10.0	7.5	7.5
77.5°	27.5	29.9	32.5	29.9	25.0	18.8	15.0	10.0	5.0	2.5	2.5
80°	26.2	29.9	32.5	28.7	25.0	18.8	13.7	7.5	3.8	1.3	1.3
82.5°	23.7	27.5	29.9	26.2	22.5	16.2	12.4	7.5	3.8	1.3	1.3
85°	5.0	6.2	7.5	7.5	8.7	11.3	8.7	6.2	2.5	1.3	1.3
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	1.3
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)