

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: P647823

Luminaire Tested: **GALN-SA3A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6251.5 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

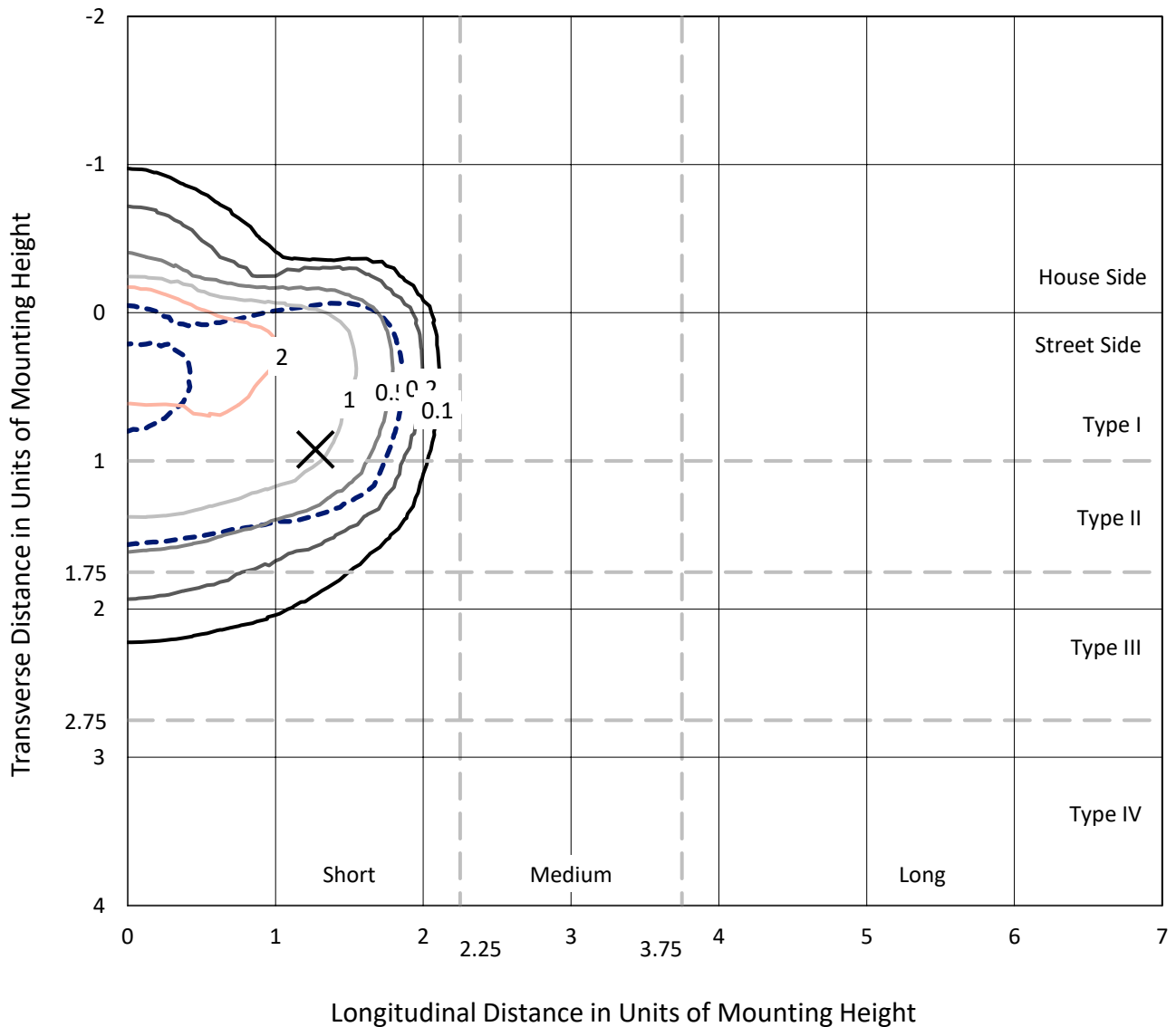
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

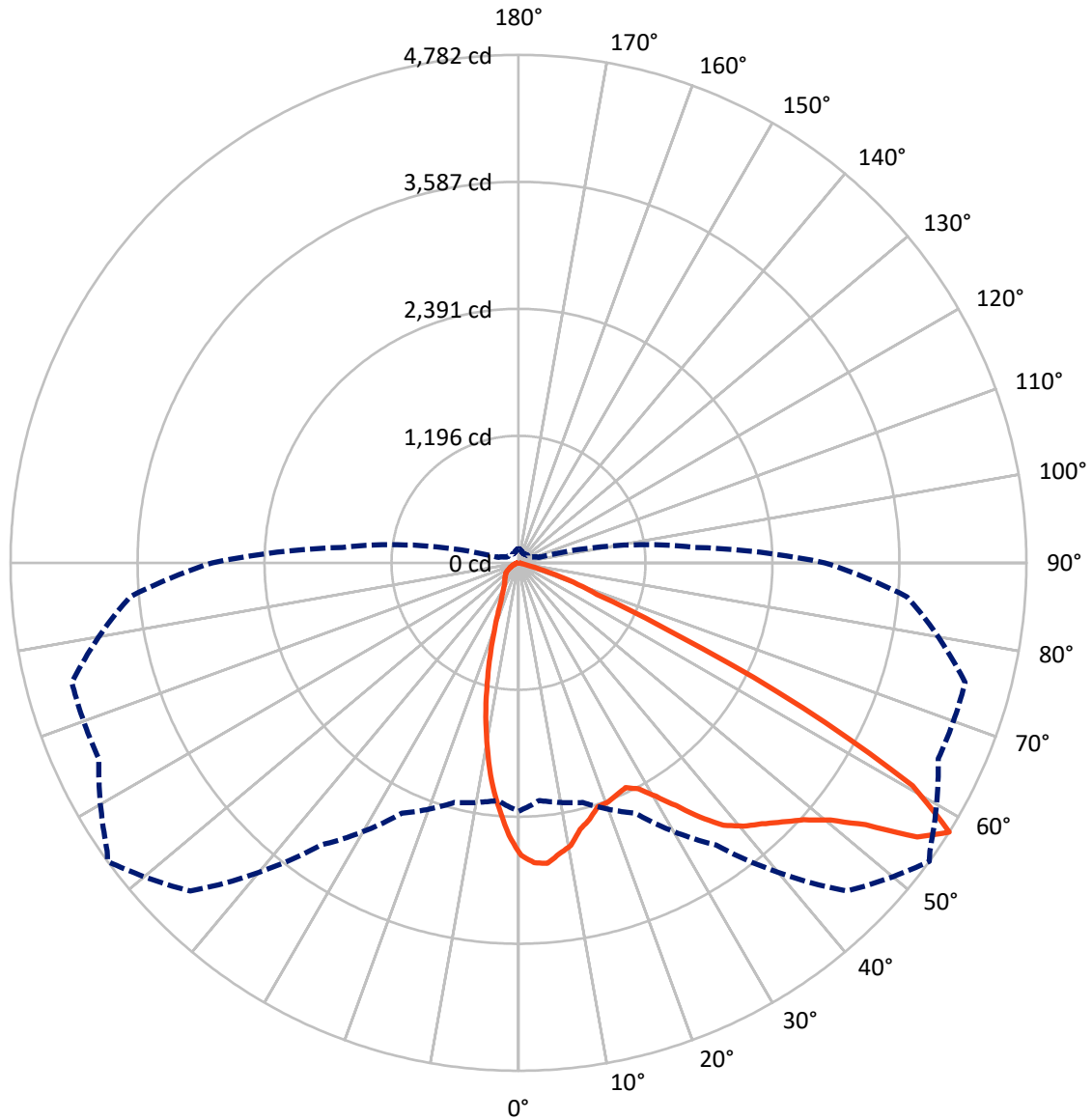
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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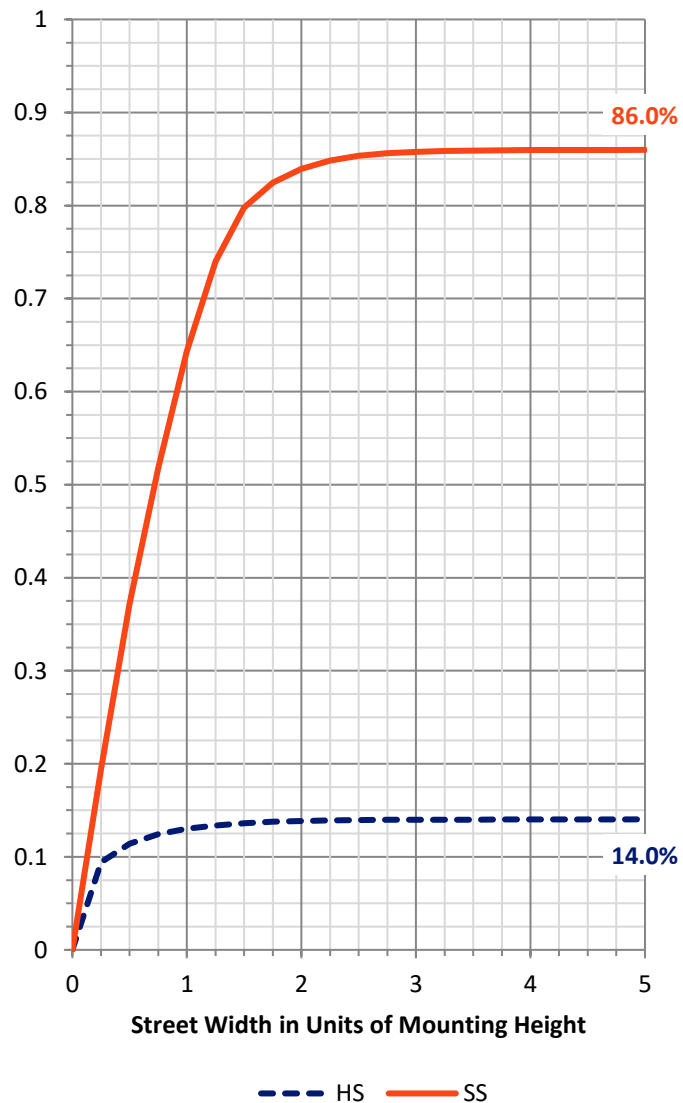
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	883.4	0.0	883.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5368.0	0.0	5368.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	6251.5	0.0	6251.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	3.7
10°-20°	492.0	7.9
20°-30°	652.0	10.4
30°-40°	947.5	15.2
40°-50°	1405.1	22.5
50°-60°	1757.0	28.1
60°-70°	693.0	11.1
70°-80°	69.0	1.1
80°-90°	5.4	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°	6251.5	100.0
0°-180°	6251.5	100.0

Coefficient of Utilization

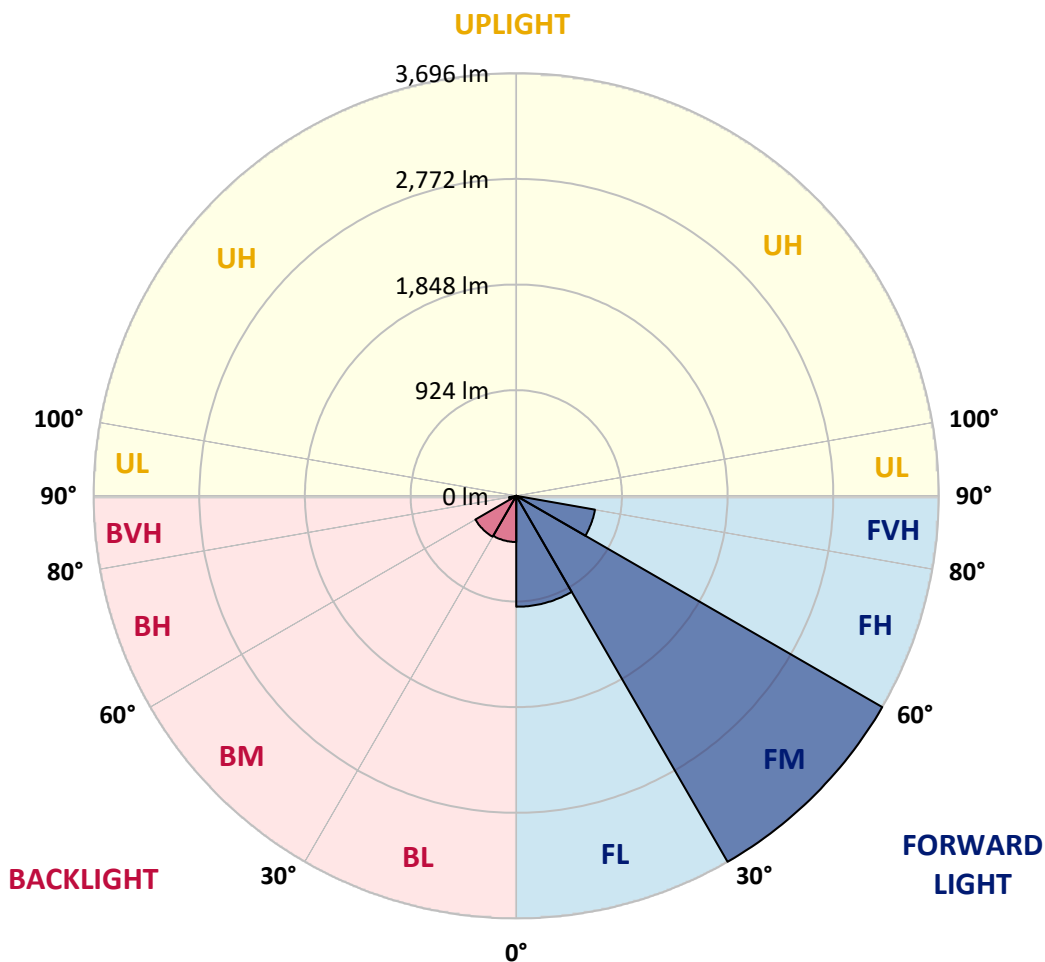


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.4	15.5			
FM (30°-60°)	3696.5	59.1			
FH (60°-80°)	698.7	11.2			G1/1800
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	404.0	6.5	B1/500		
BM (30°-60°)	413.1	6.6	B1/1000		
BH (60°-80°)	63.3	1.0	B0/110		G0/110
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2914.2	2884.0	2886.4	2875.9	2861.9	2872.4	2827.1	2837.6	2836.4	2774.8	2734.1
5°	2841.0	2873.6	2839.9	2867.8	2841.0	2870.1	2842.2	2821.3	2787.6	2742.2	2666.7
7.5°	2716.7	2685.3	2694.5	2729.5	2735.3	2800.3	2765.5	2792.3	2778.2	2688.7	2585.3
10°	2466.8	2459.8	2506.2	2552.7	2609.7	2679.4	2706.2	2691.1	2680.6	2646.9	2508.6
12.5°	2274.9	2294.7	2293.6	2370.2	2466.8	2506.2	2576.0	2573.6	2631.8	2569.0	2436.5
15°	2092.4	2102.9	2151.7	2199.4	2306.3	2419.1	2505.1	2516.7	2586.5	2542.3	2380.7
17.5°	1980.8	1965.7	2004.1	2061.0	2170.3	2317.9	2413.3	2441.2	2536.5	2527.2	2316.7
20°	1870.4	1870.4	1901.8	1969.2	2069.2	2235.4	2405.1	2397.0	2536.5	2509.7	2248.2
22.5°	1833.2	1851.8	1859.9	1911.1	2029.6	2172.7	2370.2	2385.3	2556.3	2501.6	2218.0
25°	1884.4	1859.9	1862.3	1902.9	2014.5	2142.4	2344.7	2378.4	2592.3	2542.3	2193.6
27.5°	1892.5	1916.9	1923.8	1951.8	2026.2	2151.7	2408.6	2477.2	2681.8	2637.6	2200.5
30°	1963.4	1987.8	1986.6	2034.3	2085.4	2227.2	2551.6	2565.6	2866.6	2757.3	2243.5
32.5°	2049.4	2075.0	2083.1	2138.9	2179.6	2365.6	2725.9	2762.0	3044.5	2945.6	2356.3
35°	2156.4	2147.1	2184.3	2240.1	2327.2	2567.8	2938.7	2999.1	3236.3	3189.8	2472.6
37.5°	2290.0	2278.5	2314.5	2405.1	2523.7	2807.4	3135.1	3174.7	3375.7	3416.5	2687.6
40°	2384.2	2388.9	2498.1	2620.2	2745.7	3035.1	3259.6	3297.9	3473.4	3628.0	2850.4
42.5°	2541.1	2570.2	2701.6	2850.4	2981.7	3206.1	3360.6	3397.8	3518.7	3797.7	3070.1
45°	2769.0	2756.2	2901.5	3067.7	3213.0	3383.9	3480.4	3467.6	3545.5	3966.3	3208.3
47.5°	3061.9	3064.3	3160.7	3302.5	3453.7	3538.5	3614.1	3568.8	3601.3	4144.2	3393.2
50°	3261.8	3279.3	3357.2	3502.5	3578.1	3708.2	3804.8	3776.8	3766.4	4251.1	3509.5
52.5°	3313.0	3365.3	3407.1	3588.5	3765.2	3971.0	4094.2	4153.4	3967.5	4287.2	3657.1
55°	2927.1	2973.6	3121.2	3370.0	3836.1	4387.1	4556.8	4558.0	4230.2	4447.5	3760.5
57.5°	2340.0	2245.9	2336.6	2600.4	3243.3	4369.7	4782.3	4727.7	4361.5	4353.4	3671.0
60°	1618.1	1594.9	1600.7	1705.3	2244.7	3475.7	4261.6	4332.5	4016.3	3773.4	2906.1
62.5°	1282.2	1262.4	1236.8	1225.2	1393.8	2165.6	3006.1	3106.1	2808.5	2447.0	1722.8
65°	1004.4	992.8	996.2	1042.7	1041.5	1228.7	1643.7	1603.0	1283.3	948.5	541.7
67.5°	677.7	695.1	709.1	849.8	921.8	855.6	794.0	770.7	417.3	175.5	119.7
70°	381.3	383.6	398.7	531.3	699.8	663.7	547.6	547.6	208.0	64.0	68.6
72.5°	208.0	201.1	187.1	229.0	311.6	316.2	244.1	212.7	61.6	41.8	38.4
75°	101.2	100.0	86.1	70.9	67.4	55.8	43.0	39.5	27.9	26.7	23.3
77.5°	20.9	19.7	10.5	10.5	11.6	12.8	16.3	16.3	19.7	19.7	16.3
80°	0.0	0.0	1.2	4.6	8.1	11.6	13.9	13.9	16.3	16.3	12.8
82.5°	0.0	0.0	1.2	3.5	7.0	10.5	12.8	13.9	16.3	17.5	13.9
85°	0.0	0.0	0.0	2.3	5.8	8.1	7.0	7.0	5.8	4.6	2.3
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2713.2	2710.8	2657.3	2627.1	2572.5	2524.9	2486.5	2458.6	2458.6	2441.2	2424.9
5°	2636.4	2616.7	2502.8	2429.6	2326.1	2249.3	2197.0	2156.4	2092.4	2109.9	2041.3
7.5°	2541.1	2491.1	2340.0	2228.4	2085.4	1976.2	1864.6	1765.7	1670.5	1627.5	1650.7
10°	2438.8	2351.7	2148.2	1971.5	1793.7	1593.7	1463.5	1305.4	1207.8	1202.0	1176.4
12.5°	2330.8	2231.9	1984.3	1740.2	1506.6	1265.9	1067.2	919.5	853.2	780.0	794.0
15°	2249.3	2102.9	1801.8	1507.7	1197.4	954.4	754.4	640.5	577.8	560.3	554.5
17.5°	2161.0	2004.1	1615.8	1260.1	939.3	687.0	542.9	488.2	463.8	463.8	460.3
20°	2069.2	1892.5	1431.0	1030.0	704.5	512.6	434.7	417.3	416.2	415.0	415.0
22.5°	2008.7	1764.6	1263.6	818.4	531.3	410.4	377.8	370.8	375.4	389.4	389.4
25°	1944.8	1641.4	1078.7	631.2	411.5	352.2	333.6	338.3	349.9	362.7	358.1
27.5°	1879.7	1561.1	904.4	495.2	337.1	308.0	301.1	311.6	324.3	336.0	332.5
30°	1864.6	1475.2	739.3	375.4	289.5	268.5	273.2	282.5	295.3	299.9	304.6
32.5°	1887.8	1407.8	605.7	308.0	252.3	246.4	246.4	251.1	259.3	269.7	266.2
35°	1954.1	1369.4	479.0	267.4	231.3	225.5	224.3	229.0	233.6	237.2	233.6
37.5°	2055.2	1339.2	391.7	237.2	217.4	208.0	205.8	204.6	209.2	210.4	212.7
40°	2184.3	1355.5	332.5	218.5	203.4	192.9	186.0	186.0	186.0	189.5	190.7
42.5°	2323.8	1377.5	287.1	208.0	190.7	177.8	170.9	168.6	170.9	175.5	174.4
45°	2470.2	1420.5	258.1	191.8	179.0	162.7	153.5	151.1	156.9	166.2	165.1
47.5°	2607.4	1482.1	236.0	181.3	167.4	152.3	140.6	138.4	148.8	161.6	162.7
50°	2744.6	1589.1	227.9	173.2	159.3	141.8	131.4	129.0	140.6	156.9	160.4
52.5°	2902.7	1704.1	222.1	162.7	149.9	133.7	122.1	119.7	132.5	153.5	154.6
55°	3006.1	1801.8	217.4	144.2	132.5	120.9	111.6	110.4	124.4	143.0	147.6
57.5°	2885.2	1665.8	201.1	125.5	112.8	107.0	98.8	98.8	110.4	127.9	131.4
60°	2187.8	1096.2	143.0	101.2	95.3	91.8	88.3	88.3	97.6	110.4	111.6
62.5°	1281.0	590.5	91.8	81.4	81.4	77.9	72.0	72.0	81.4	88.3	89.5
65°	380.1	189.5	74.4	69.8	68.6	62.8	56.9	55.8	62.8	66.2	65.1
67.5°	109.3	87.1	61.6	58.1	56.9	47.7	44.2	43.0	44.2	41.8	40.7
70°	65.1	59.3	47.7	48.9	43.0	34.8	31.4	30.2	27.9	24.4	22.1
72.5°	36.0	36.0	34.8	37.2	30.2	23.3	19.7	16.3	12.8	10.5	9.3
75°	22.1	23.3	24.4	25.6	19.7	15.1	12.8	8.1	4.6	2.3	2.3
77.5°	15.1	16.3	17.5	18.6	16.3	13.9	10.5	5.8	1.2	0.0	0.0
80°	11.6	12.8	15.1	16.3	17.5	18.6	13.9	5.8	1.2	0.0	0.0
82.5°	12.8	13.9	17.5	16.3	16.3	16.3	12.8	5.8	1.2	0.0	0.0
85°	2.3	3.5	5.8	5.8	8.1	10.5	8.1	2.3	0.0	0.0	0.0
87.5°	0.0	0.0	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)