

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: P648005

Luminaire Tested: **GALN-SA6A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648005
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-SA6A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 15873 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

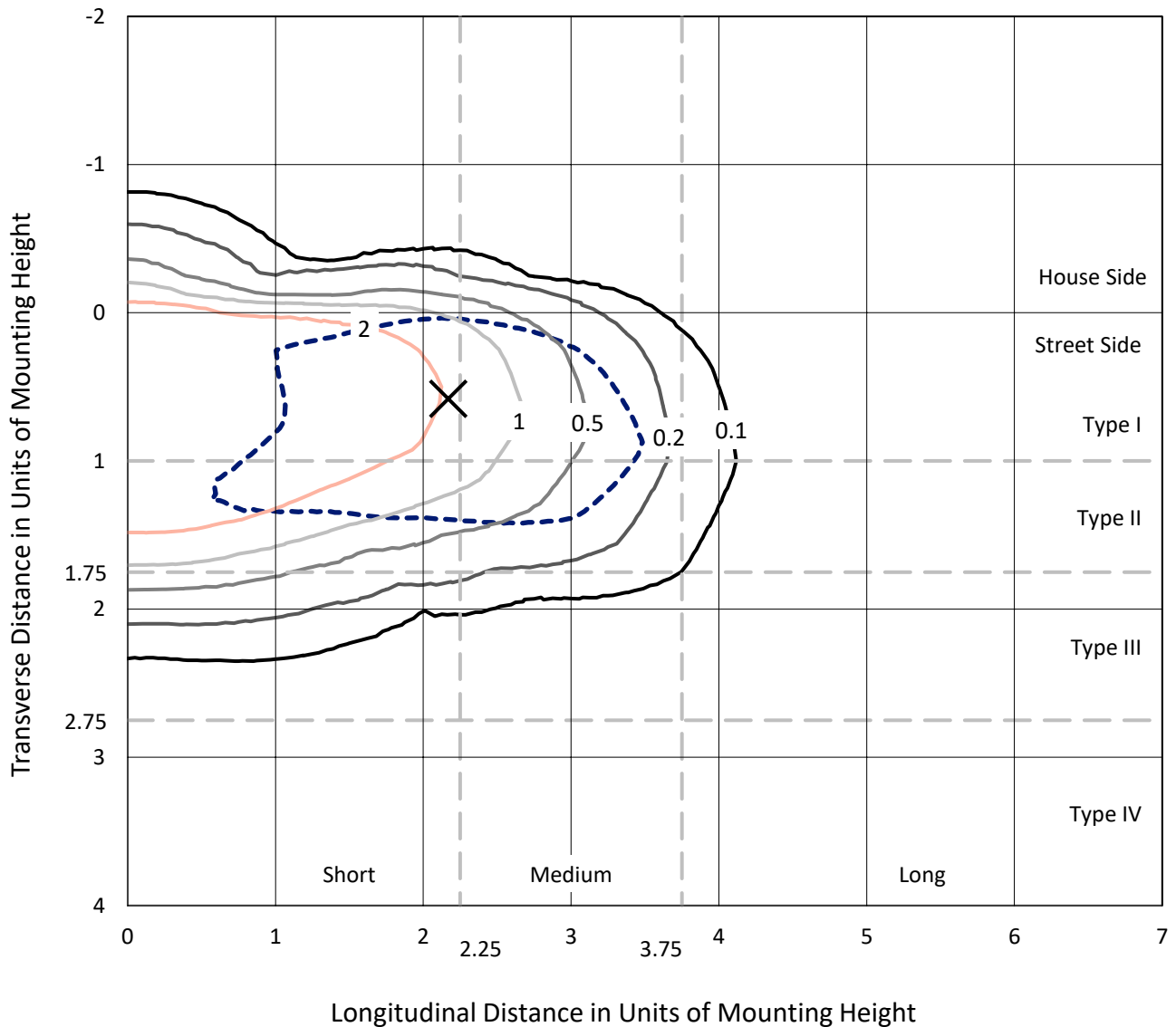
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

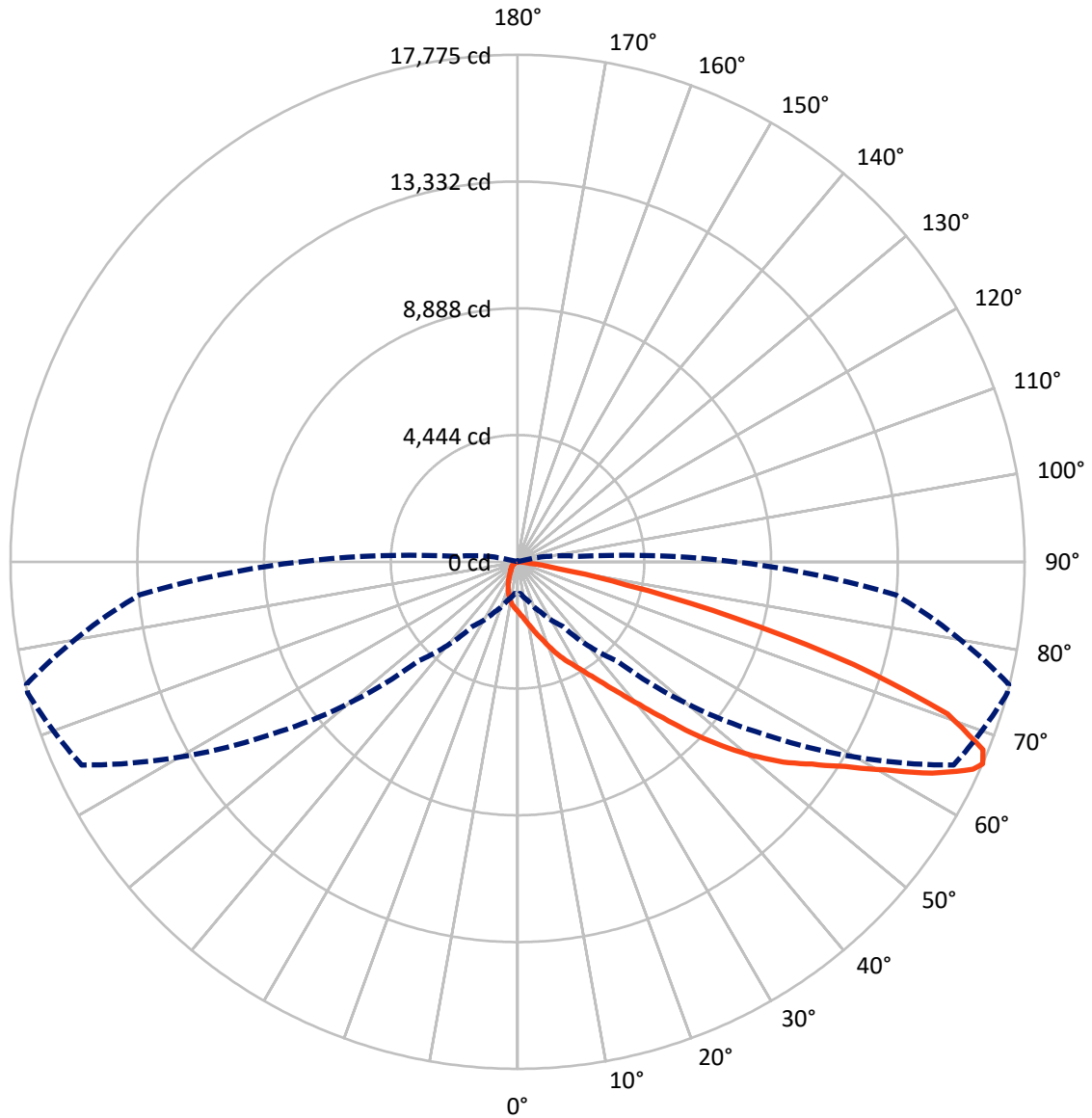
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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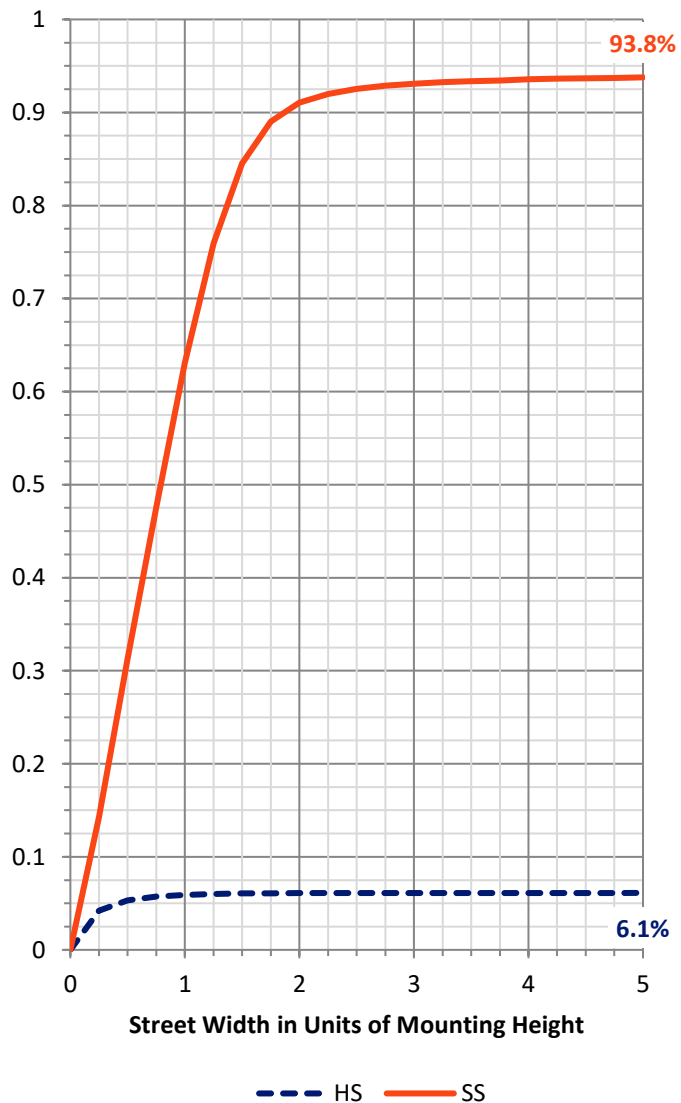
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.9	0.0	979.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14893.1	0.0	14893.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	15873.0	0.0	15873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.1
10°-20°	492.7	3.1
20°-30°	850.9	5.4
30°-40°	1534.8	9.7
40°-50°	2772.6	17.5
50°-60°	4322.5	27.2
60°-70°	4106.2	25.9
70°-80°	1538.9	9.7
80°-90°	86.8	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°	15873.0	100.0
0°-180°	15873.0	100.0

Coefficient of Utilization



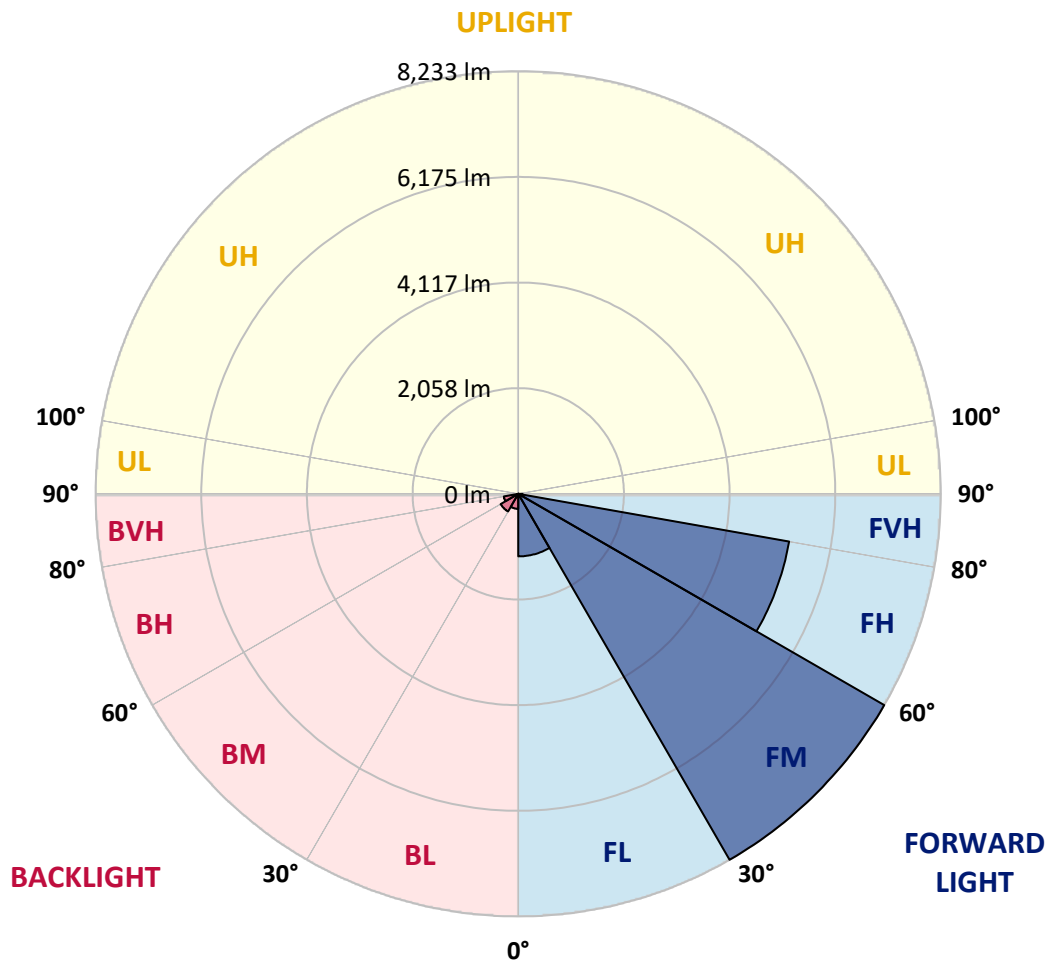
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.4	7.7			
FM (30°-60°)	8233.3	51.9			
FH (60°-80°)	5359.0	33.8			G3/7500
FVH (80°-90°)	82.3	0.5			G1/100
BL (0°-30°)	292.7	1.8	B1/500		
BM (30°-60°)	396.7	2.5	B1/1000		
BH (60°-80°)	286.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8
2.5°	2073.9	2048.1	2056.3	2044.6	2017.6	1977.6	1942.5	1892.0	1841.5	1833.3	1776.9
5°	2347.4	2340.3	2330.9	2296.9	2278.1	2217.1	2144.3	2057.5	1953.0	1934.2	1832.1
7.5°	2533.9	2530.4	2535.1	2517.5	2501.1	2445.9	2368.5	2250.0	2087.9	2077.4	1907.2
10°	2595.0	2604.4	2622.0	2650.1	2676.0	2658.4	2599.7	2451.8	2262.9	2232.3	1992.9
12.5°	2559.8	2570.4	2612.6	2687.7	2771.0	2819.2	2795.7	2687.7	2448.3	2423.6	2089.1
15°	2469.4	2482.3	2542.2	2658.4	2807.4	2943.6	3002.3	2924.8	2664.2	2624.3	2205.3
17.5°	2335.6	2354.4	2440.1	2593.8	2798.1	3032.8	3198.2	3172.5	2894.3	2856.7	2332.1
20°	2234.7	2248.8	2321.5	2497.6	2758.1	3082.0	3384.9	3457.6	3178.4	3113.8	2481.2
22.5°	2301.6	2306.2	2330.9	2436.5	2686.6	3095.0	3549.2	3754.6	3480.0	3422.4	2636.0
25°	2629.0	2582.1	2557.4	2533.9	2671.3	3083.2	3698.3	4064.5	3780.4	3719.4	2789.8
27.5°	3145.5	3124.3	2999.9	2833.3	2801.6	3098.5	3796.8	4357.9	4063.3	3997.5	2940.1
30°	3707.7	3671.3	3595.0	3350.8	3105.5	3206.5	3868.4	4643.0	4397.8	4310.9	3077.3
32.5°	4224.1	4247.5	4133.7	3882.5	3598.5	3436.5	3961.1	4954.1	4781.5	4673.6	3237.0
35°	4826.2	4873.1	4698.2	4457.6	4125.5	3852.0	4141.9	5305.0	5268.7	5132.5	3483.5
37.5°	5437.6	5465.8	5359.0	5021.0	4721.7	4380.2	4482.3	5738.1	5868.4	5752.2	3778.1
40°	5951.7	5990.4	5911.8	5611.4	5292.1	4991.6	4976.4	6209.9	6582.0	6462.3	4217.0
42.5°	6344.9	6374.2	6376.6	6164.2	5876.6	5740.5	5606.7	6812.0	7476.3	7337.8	4726.4
45°	6841.4	6883.6	6859.0	6714.6	6499.8	6475.2	6406.0	7539.7	8546.7	8371.8	5387.2
47.5°	7609.0	7637.1	7576.1	7405.9	7187.6	7226.3	7185.3	8355.4	9638.3	9488.0	6071.5
50°	8141.8	8188.8	8275.6	8343.6	8185.2	8042.0	7920.0	9117.1	10674.6	10539.6	6770.9
52.5°	8135.9	8213.4	8488.0	8830.8	9177.0	9133.5	8782.6	9958.7	11664.0	11497.3	7428.2
55°	7587.8	7738.1	8141.8	8749.8	9708.7	10186.4	10026.7	10932.8	12518.4	12405.8	8189.9
57.5°	6456.4	6547.9	7108.9	7958.7	9411.7	10681.6	11468.0	12253.2	13543.1	13490.2	9373.0
60°	4342.6	4383.7	5105.5	6155.9	8012.7	10187.5	12524.3	13850.6	14804.7	14778.9	10754.4
62.5°	2488.2	2505.8	3029.3	3915.4	5701.7	8633.6	12613.5	15821.1	16317.6	16331.7	12352.9
65°	1339.2	1348.6	1771.1	2298.0	3469.4	6153.6	11342.4	16900.9	17540.6	17567.5	13343.5
66°	1156.1	1111.5	1409.6	1958.8	2760.5	4897.7	10538.5	16862.2	17775.4	17746.0	13308.3
67.5°	879.1	919.0	1125.6	1505.8	2045.7	3482.3	8700.5	16112.3	17596.9	17505.4	12767.3
70°	629.1	645.5	801.6	1073.9	1393.2	1910.8	5559.7	13382.3	15993.7	15870.5	11122.9
72.5°	406.1	423.7	568.1	777.0	1007.0	1043.4	3112.6	9668.7	12330.6	12313.1	8376.5
75°	289.9	306.3	375.6	556.3	757.0	645.5	1498.8	6516.3	7839.0	7786.2	5181.8
77.5°	210.1	218.3	251.2	363.9	541.1	462.4	694.8	3480.0	3902.5	4086.7	2289.8
80°	120.9	127.9	174.8	221.8	366.2	315.7	332.1	1396.6	1440.1	1370.9	716.0
82.5°	59.8	68.0	104.5	151.4	228.9	212.4	152.6	420.2	443.6	431.9	180.7
85°	14.1	17.6	58.6	99.8	111.5	95.1	73.9	123.2	152.6	149.1	69.2
87.5°	1.2	2.3	21.1	17.6	18.8	31.7	25.8	31.7	49.3	45.8	24.7
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°	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8	1735.8
2.5°	1751.1	1728.8	1664.3	1600.9	1548.1	1492.9	1442.4	1413.1	1401.3	1388.5	1394.3
5°	1775.8	1721.8	1591.5	1478.9	1368.5	1274.6	1199.5	1151.4	1127.9	1124.4	1118.5
7.5°	1808.7	1715.9	1514.0	1338.0	1193.6	1089.2	1003.5	934.3	913.1	894.3	879.1
10°	1848.5	1705.4	1417.8	1190.1	1036.4	904.9	792.2	710.1	667.8	656.1	664.3
12.5°	1890.8	1685.4	1316.8	1054.0	876.7	708.9	604.5	563.4	551.6	546.9	548.1
15°	1933.1	1660.7	1211.2	922.5	698.4	565.7	517.6	507.0	502.3	500.0	497.7
17.5°	1971.8	1620.8	1092.7	794.6	565.7	483.6	466.0	456.6	447.2	443.6	437.8
20°	2017.6	1575.1	985.9	651.4	478.9	437.8	416.6	399.0	385.0	375.6	374.4
22.5°	2061.0	1516.4	874.4	539.9	436.6	393.1	359.2	340.4	323.9	312.2	315.7
25°	2084.4	1444.8	774.6	470.7	397.8	348.6	311.0	287.5	270.0	264.1	262.9
27.5°	2084.4	1356.8	677.2	430.7	362.7	308.7	270.0	247.7	235.9	227.7	228.9
30°	2068.0	1259.4	586.9	400.2	332.1	273.5	237.1	217.1	207.7	201.9	200.7
32.5°	2055.1	1166.7	509.3	370.9	300.4	243.0	211.3	196.0	186.6	180.7	180.7
35°	2075.0	1086.8	449.5	341.5	271.2	219.5	191.3	177.2	167.8	163.2	162.0
37.5°	2127.9	1014.1	403.7	309.8	244.1	199.5	177.2	160.8	151.4	145.6	143.2
40°	2258.2	973.0	369.7	280.5	218.3	183.1	160.8	145.6	133.8	127.9	126.8
42.5°	2467.1	974.1	336.8	253.5	198.3	169.0	146.7	129.1	116.2	110.3	109.2
45°	2781.6	1018.8	311.0	227.7	180.7	153.8	131.5	112.7	100.9	95.1	95.1
47.5°	3158.4	1105.6	288.7	205.4	164.4	139.7	116.2	97.4	85.7	81.0	81.0
50°	3566.8	1218.3	266.5	181.9	150.3	124.4	99.8	84.5	75.1	71.6	71.6
52.5°	3983.4	1354.4	244.1	163.2	135.0	108.0	85.7	75.1	66.9	64.5	63.3
55°	4530.4	1528.1	220.6	143.2	118.5	92.7	76.3	65.7	56.3	52.9	51.7
57.5°	5371.9	1789.9	194.8	125.6	97.4	77.4	65.7	55.2	44.6	38.8	37.6
60°	6387.2	2109.1	167.8	110.3	78.6	63.3	52.9	42.3	32.9	25.8	24.7
62.5°	7337.8	2312.1	142.0	92.7	62.2	48.2	37.6	31.7	23.5	16.4	15.3
65°	7758.0	2244.1	117.4	75.1	49.3	34.1	24.7	22.3	14.1	7.0	5.9
66°	7618.4	2143.1	108.0	68.0	44.6	29.4	21.1	18.8	10.6	3.5	3.5
67.5°	7206.3	1904.9	93.9	58.6	38.8	23.5	16.4	14.1	5.9	1.2	0.0
70°	6174.7	1541.0	73.9	43.5	28.2	16.4	9.4	7.0	3.5	0.0	0.0
72.5°	4742.8	1147.9	58.6	32.9	20.0	9.4	4.7	2.3	3.5	0.0	0.0
75°	2906.0	656.1	45.8	24.7	12.9	5.9	3.5	0.0	3.5	1.2	0.0
77.5°	1289.8	294.6	30.5	16.4	9.4	4.7	2.3	0.0	2.3	1.2	0.0
80°	326.3	96.2	17.6	11.7	7.0	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	89.2	35.2	12.9	9.4	5.9	3.5	1.2	0.0	2.3	2.3	2.3
85°	35.2	16.4	11.7	9.4	7.0	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.4	11.7	11.7	10.6	8.2	3.5	1.2	0.0	2.3	1.2	2.3
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)