

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: P648131

Luminaire Tested: **GALN-SA8A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20917.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

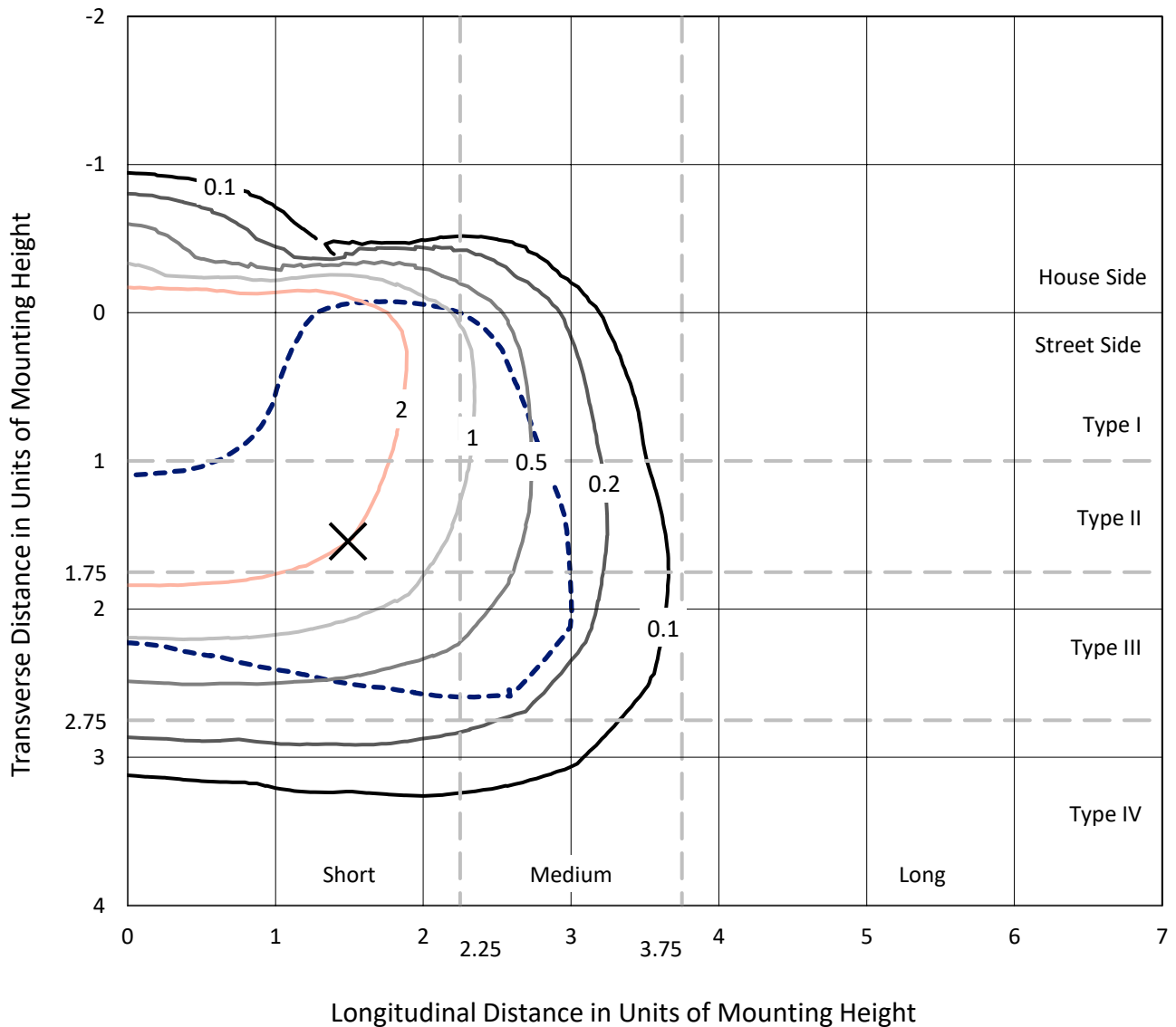
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

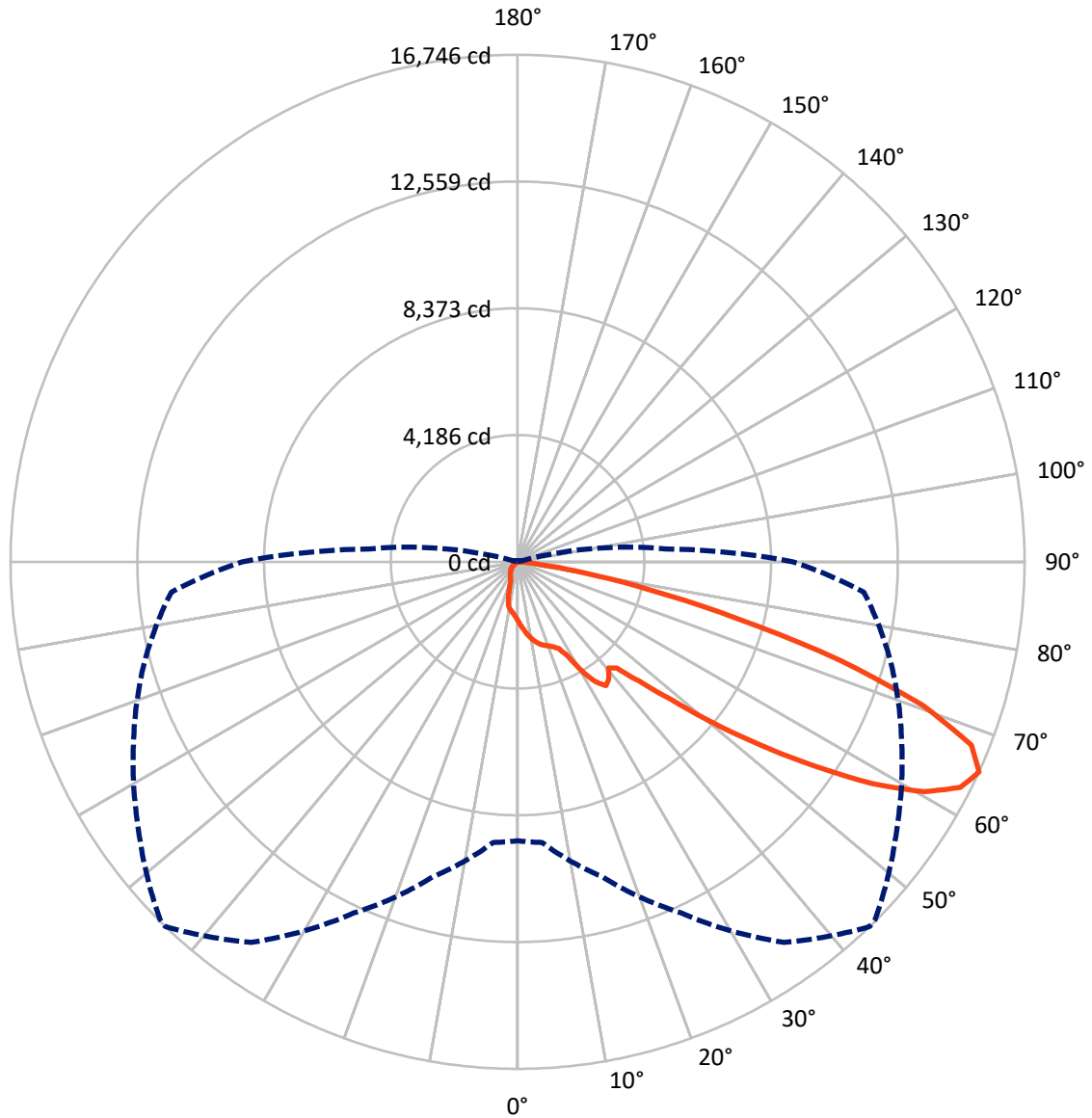
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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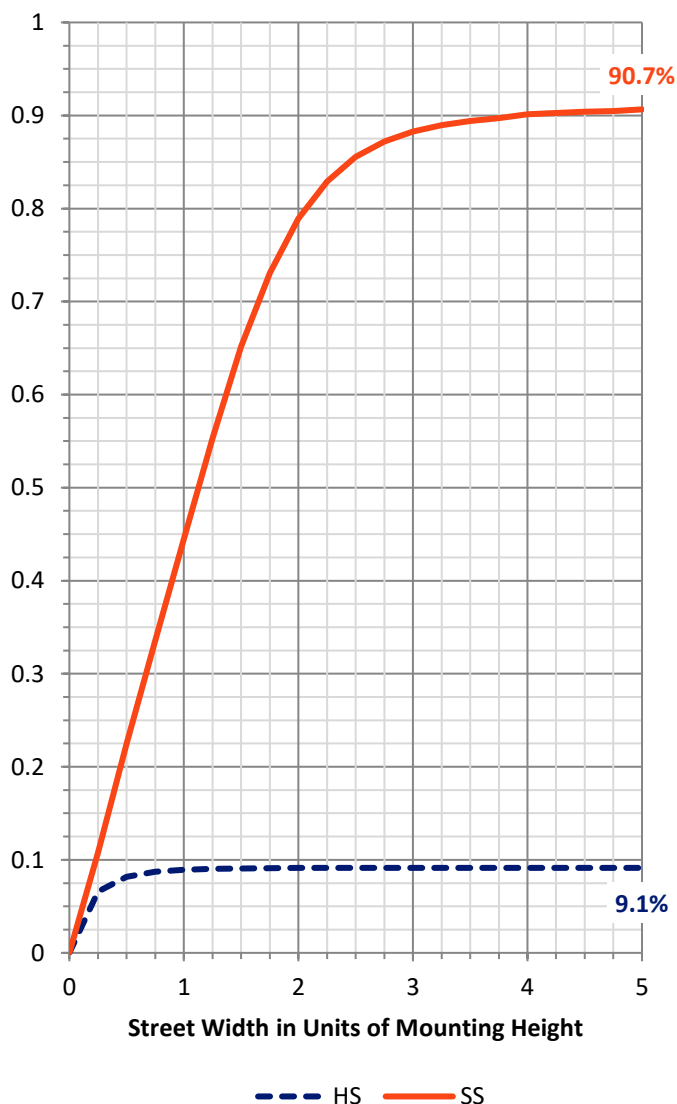
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1927.2	0.0	1927.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18989.9	0.0	18989.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	20917.1	0.0	20917.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	0.9
10°-20°	582.7	2.8
20°-30°	988.1	4.7
30°-40°	1642.9	7.9
40°-50°	2868.6	13.7
50°-60°	5604.2	26.8
60°-70°	6502.2	31.1
70°-80°	2367.8	11.3
80°-90°	166.8	0.8
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°	20917.1	100.0
0°-180°	20917.1	100.0

Coefficient of Utilization



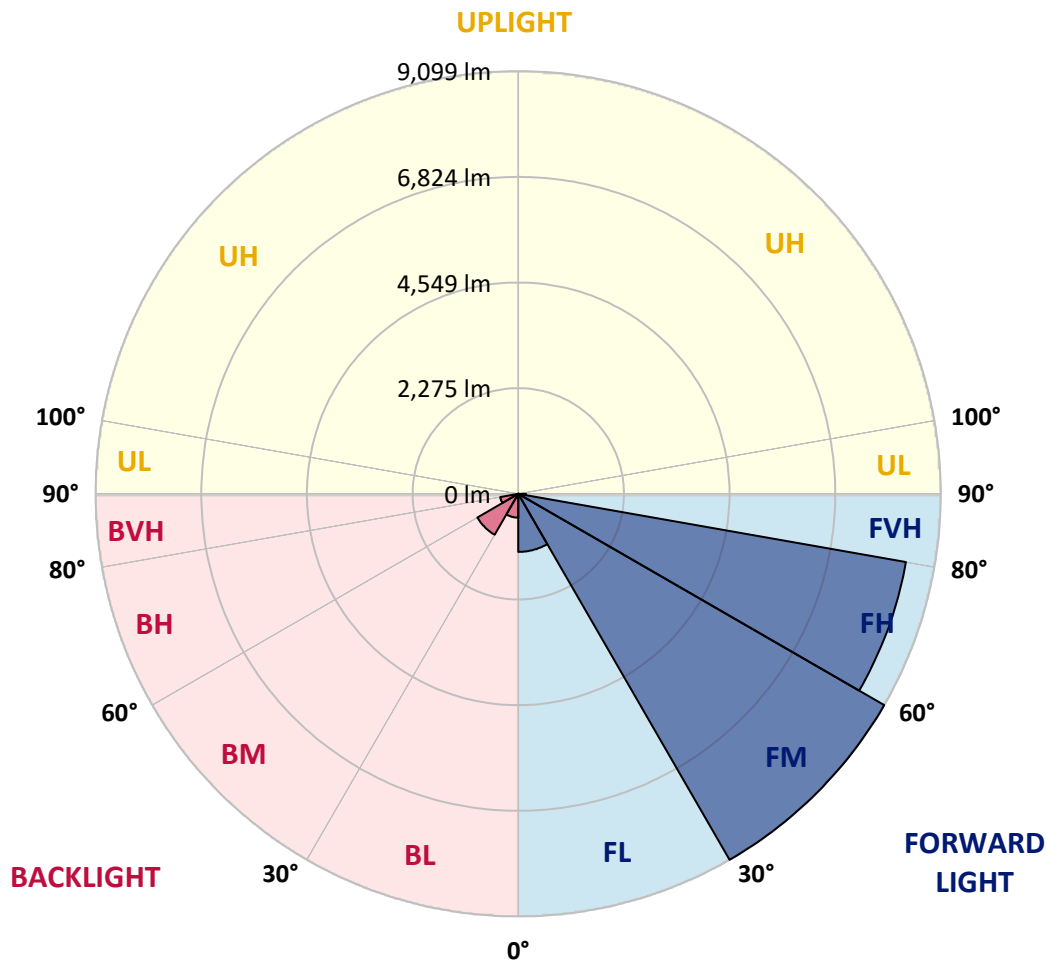
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.0	6.0			
FM (30°-60°)	9099.0	43.5			
FH (60°-80°)	8475.3	40.5			G4/12000
FVH (80°-90°)	164.6	0.8			G2/225
BL (0°-30°)	513.5	2.5	B2/1000		
BM (30°-60°)	1016.8	4.9	B2/2500		
BH (60°-80°)	394.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8
2.5°	2191.3	2181.7	2176.9	2151.4	2132.2	2108.1	2108.1	2077.8	2042.7	2004.3	1969.2
5°	2435.8	2419.9	2399.1	2376.7	2331.9	2268.0	2268.0	2204.1	2130.5	2065.0	1993.1
7.5°	2670.8	2656.4	2621.2	2578.1	2504.6	2437.4	2432.6	2339.9	2252.1	2152.9	2050.7
10°	2877.0	2865.8	2835.4	2752.3	2675.6	2587.7	2586.1	2482.2	2379.9	2258.4	2132.2
12.5°	3020.8	3022.5	2982.4	2902.6	2803.5	2720.4	2714.0	2611.6	2504.6	2373.5	2218.5
15°	3123.2	3123.2	3081.6	2992.1	2902.6	2829.1	2822.6	2733.1	2622.8	2480.6	2312.7
17.5°	3151.9	3161.4	3116.7	3036.8	2964.9	2900.9	2899.4	2824.2	2736.4	2598.9	2408.7
20°	3140.7	3150.3	3115.2	3052.8	3003.3	2966.5	2961.7	2931.3	2849.8	2720.4	2510.9
22.5°	3116.7	3126.3	3100.8	3064.0	3040.0	3051.2	3043.2	3068.8	3025.6	2869.0	2632.4
25°	3121.5	3131.1	3112.0	3091.1	3112.0	3180.6	3201.5	3311.7	3273.3	3057.6	2763.5
27.5°	3271.8	3290.9	3263.8	3273.3	3346.9	3506.7	3546.7	3736.9	3567.4	3297.4	2968.1
30°	3605.8	3593.0	3541.9	3588.3	3844.0	4182.8	4171.6	4141.3	3875.9	3573.8	3211.0
32.5°	3909.5	3898.3	3895.1	4094.9	4558.4	4723.1	4715.1	4421.0	4152.4	3890.3	3450.8
35°	4032.5	3989.4	3979.8	4464.1	5239.3	5021.9	4972.4	4536.0	4488.1	4235.6	3695.3
37.5°	4403.4	4373.0	4224.4	4524.9	4967.6	4895.6	4857.3	4734.3	4846.1	4540.9	3971.8
40°	5167.4	5082.7	4948.4	4654.3	4582.4	4612.7	4651.1	4988.3	5269.7	4958.0	4341.0
42.5°	6116.8	6097.6	5848.2	5300.0	4761.4	4802.9	4852.5	5519.0	5878.6	5586.2	4943.6
45°	7256.4	7283.5	6923.9	6276.6	5570.2	5605.3	5677.2	6302.2	6703.3	6562.7	5891.4
47.5°	8292.1	8271.3	8149.9	7476.9	6824.9	6746.5	6863.2	7307.5	7844.6	7867.0	7067.7
50°	9334.2	9444.5	9263.8	9000.1	8515.8	8351.2	8308.1	8525.5	9343.8	9236.7	8480.7
52.5°	10831.8	10889.3	10550.5	10483.4	10593.7	10059.8	10016.7	10069.5	10801.5	10433.9	9538.7
55°	11773.3	11739.7	11613.4	12137.7	12574.0	11907.5	11853.1	11640.5	12011.4	11279.3	10556.9
57.5°	12070.5	12118.5	12412.6	13360.3	14392.9	13827.1	13727.9	13123.8	12884.0	12067.3	11493.5
60°	11937.9	12025.8	12660.3	14070.0	15502.1	15417.4	15332.7	14317.8	13510.6	12725.9	12150.4
62.5°	10993.2	11116.3	12131.3	13943.7	15877.8	16406.7	16301.3	15062.6	13927.8	13045.5	12265.5
65°	9212.7	9303.8	10761.5	12797.7	15343.9	16745.6	16707.3	15295.9	13993.3	12753.0	11477.5
67.5°	6567.5	6877.6	8228.2	10785.4	13764.7	16167.0	16232.5	15016.2	13377.9	11488.7	9505.2
70°	4128.4	4339.5	5308.0	7721.5	11034.8	14183.5	14399.3	13735.9	11610.2	8955.4	6362.9
72.5°	1969.2	2125.8	2816.2	4887.6	7788.6	11159.5	11330.5	11276.1	8977.8	5642.1	3283.0
75°	877.5	936.6	1344.2	2495.0	5028.3	7500.9	7943.7	8017.2	5610.1	2760.3	1277.1
77.5°	447.6	449.1	629.8	1208.3	2510.9	4475.3	4563.2	4820.5	3041.6	1216.3	444.4
80°	238.2	254.2	334.0	570.6	1302.6	2204.1	2192.9	2410.2	1349.0	596.2	148.6
82.5°	107.1	118.3	188.6	298.9	636.1	835.9	901.5	986.2	578.6	380.4	65.5
85°	31.9	38.4	92.7	150.3	230.1	241.3	270.1	348.4	327.7	270.1	33.6
87.5°	4.8	4.8	38.4	41.6	33.6	43.1	44.8	49.6	105.5	99.1	17.6
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°	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8	1946.8
2.5°	1950.0	1938.8	1898.8	1865.3	1836.4	1818.9	1798.1	1785.3	1778.9	1774.1	1775.8
5°	1958.0	1930.8	1862.1	1807.7	1766.1	1721.4	1691.0	1673.4	1665.4	1652.7	1652.7
7.5°	2002.7	1959.5	1863.6	1780.5	1708.6	1647.9	1590.4	1569.5	1555.2	1552.0	1548.8
10°	2066.7	2012.3	1881.2	1766.1	1663.9	1580.7	1499.2	1427.3	1371.3	1337.8	1333.0
12.5°	2146.5	2068.2	1908.4	1756.6	1625.5	1478.5	1262.7	1117.3	1019.7	989.4	994.2
15°	2220.0	2135.3	1935.6	1748.6	1555.2	1225.9	981.3	815.2	765.6	760.8	762.4
17.5°	2308.0	2207.3	1967.5	1737.4	1361.8	936.6	728.8	684.1	693.7	709.6	708.1
20°	2399.1	2284.0	2005.9	1670.2	1086.9	704.9	644.1	649.0	663.3	677.7	680.9
22.5°	2496.6	2371.9	2050.7	1508.8	829.5	613.8	610.6	616.9	631.3	647.3	650.5
25°	2630.8	2482.2	2084.2	1297.8	628.1	567.4	573.8	585.0	597.7	615.4	618.6
27.5°	2803.5	2630.8	2101.8	1022.9	543.4	525.9	527.4	543.4	559.4	575.4	575.4
30°	3027.2	2808.2	2066.7	773.6	501.9	485.9	479.5	489.1	509.9	525.9	527.4
32.5°	3227.0	2976.1	1973.9	591.4	471.5	449.1	433.2	434.7	442.7	452.3	453.9
35°	3426.8	3139.1	1815.7	497.0	439.6	414.0	390.0	377.2	370.8	366.1	370.8
37.5°	3682.5	3342.1	1604.7	452.3	412.3	380.4	346.9	319.7	297.3	282.9	286.1
40°	4011.8	3623.4	1355.4	423.5	386.8	348.4	303.6	268.5	230.1	217.4	210.9
42.5°	4555.2	4050.1	1093.2	399.6	361.2	314.8	258.9	210.9	175.8	163.0	166.2
45°	5413.5	4588.8	842.4	374.0	335.7	278.1	217.4	166.2	137.4	131.1	134.3
47.5°	6551.5	5285.6	649.0	345.2	303.6	238.2	171.0	131.1	113.5	111.9	110.2
50°	7622.4	5934.6	541.8	313.3	265.4	198.2	140.6	110.2	99.1	97.5	97.5
52.5°	8591.0	6399.7	441.1	276.5	223.8	163.0	118.3	97.5	87.9	83.1	83.1
55°	9452.5	6703.3	358.0	231.8	175.8	129.4	102.3	87.9	76.7	70.3	68.7
57.5°	10103.0	6740.1	268.5	185.4	131.1	100.7	87.9	76.7	64.0	55.9	52.8
60°	10381.1	6422.1	198.2	140.6	97.5	79.9	70.3	62.3	47.9	39.9	38.4
62.5°	10101.4	5803.5	147.0	107.1	75.1	59.1	49.6	46.4	33.6	24.0	22.4
65°	9099.2	4910.0	116.7	81.5	55.9	43.1	31.9	30.4	20.7	11.2	9.6
67.5°	7290.0	3845.5	92.7	60.8	39.9	28.7	20.7	19.2	11.2	3.2	3.2
70°	4740.6	2458.2	75.1	44.8	25.6	19.2	12.8	9.6	6.4	1.6	0.0
72.5°	2344.8	1149.2	60.8	35.2	17.6	9.6	4.8	3.2	4.8	0.0	0.0
75°	909.5	409.2	44.8	24.0	9.6	4.8	3.2	0.0	1.6	0.0	0.0
77.5°	302.1	135.9	27.2	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	111.9	52.8	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	44.8	20.7	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	12.8	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	9.6	6.4	4.8	3.2	1.6	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)