

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: P646905

Luminaire Tested: **GALN-SA4C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646905
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-SA4C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 16279.4 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

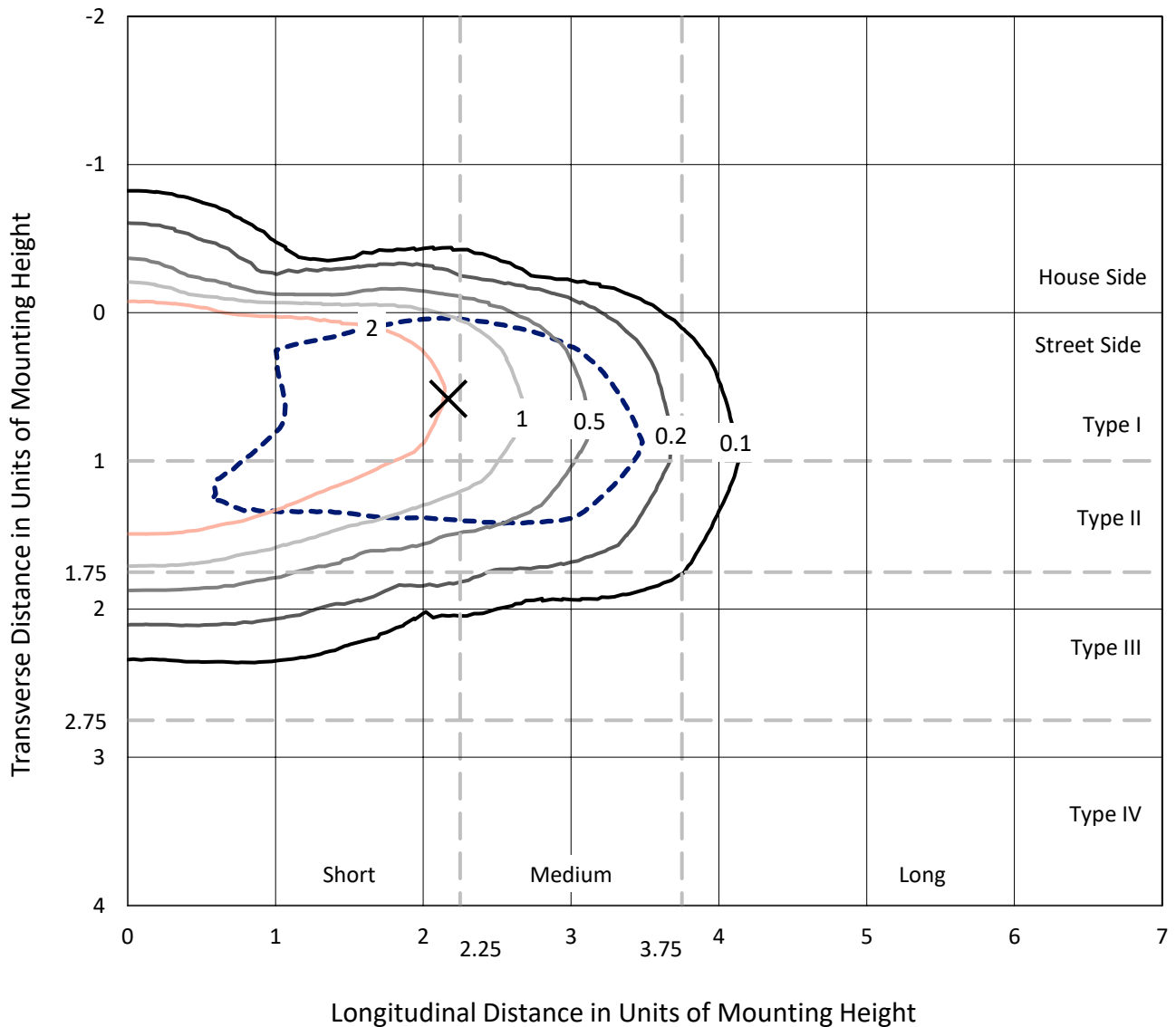
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

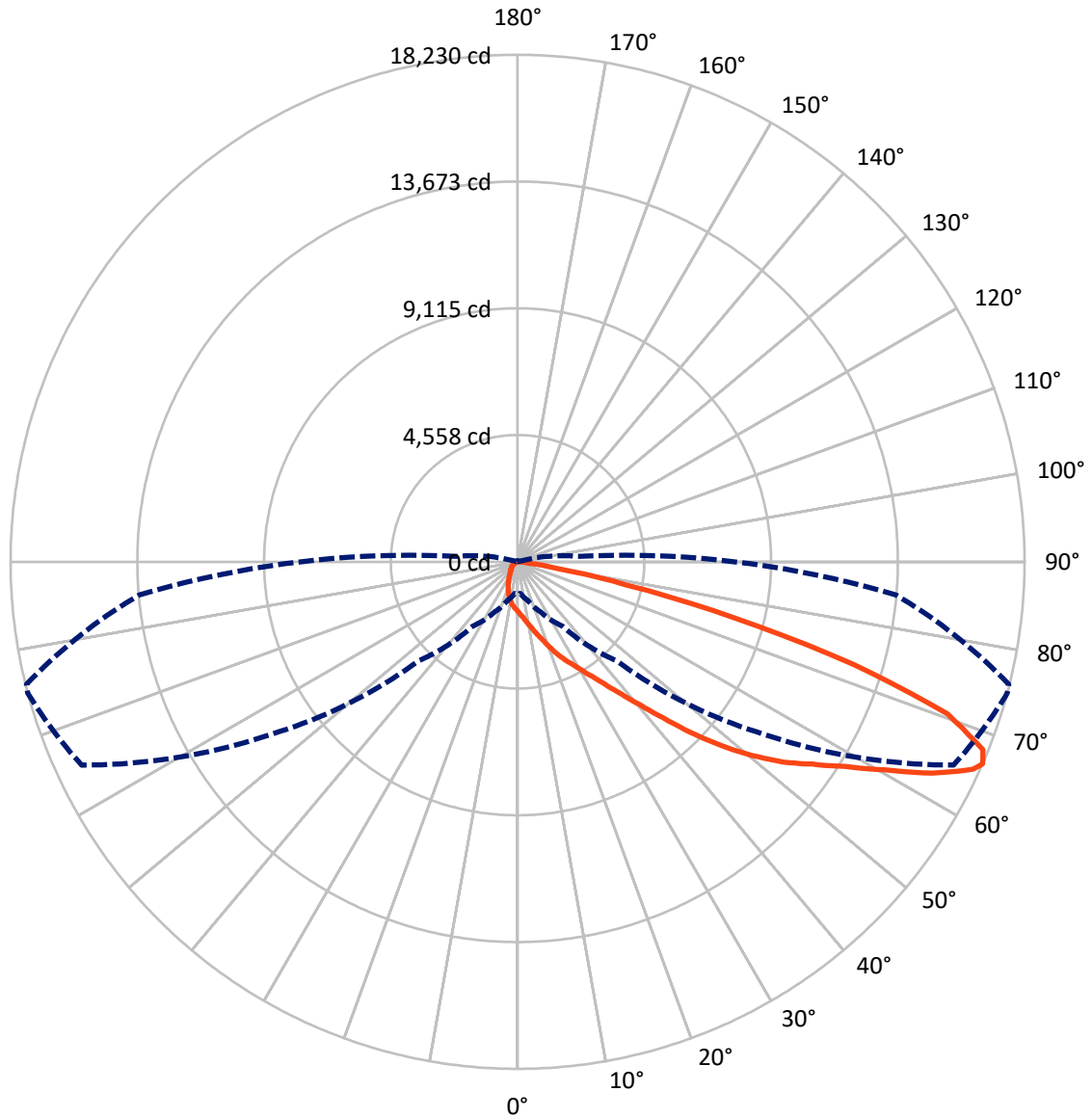
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA4C-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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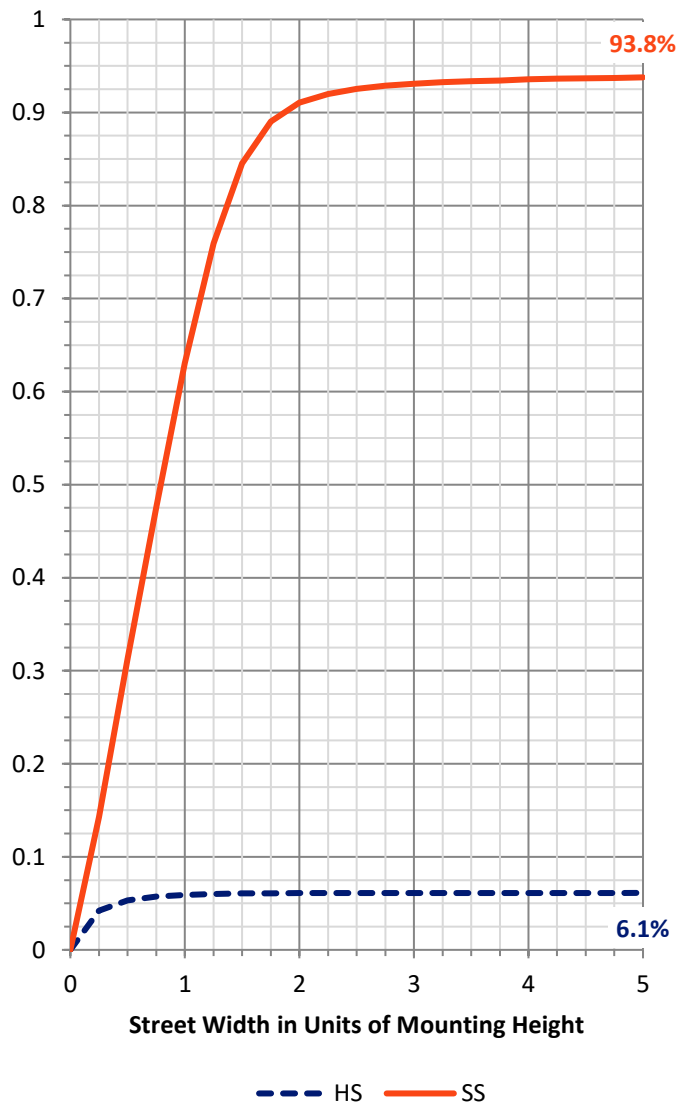
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.0	0.0	1005.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15274.4	0.0	15274.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	16279.4	0.0	16279.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.1
10°-20°	505.4	3.1
20°-30°	872.6	5.4
30°-40°	1574.1	9.7
40°-50°	2843.6	17.5
50°-60°	4433.2	27.2
60°-70°	4211.4	25.9
70°-80°	1578.3	9.7
80°-90°	89.0	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°	16279.4	100.0
0°-180°	16279.4	100.0

Coefficient of Utilization

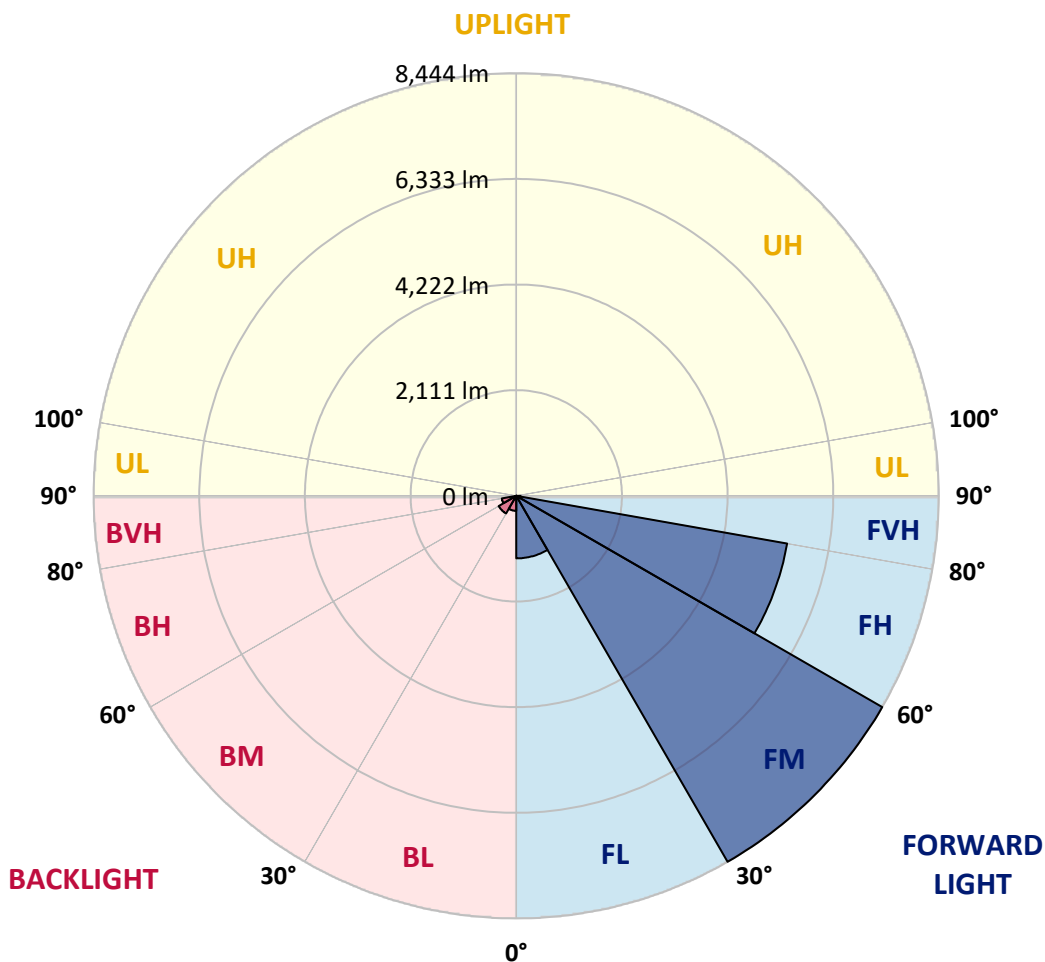


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.6	7.7			
FM (30°-60°)	8444.1	51.9			
FH (60°-80°)	5496.2	33.8			G3/7500
FVH (80°-90°)	84.5	0.5			G1/100
BL (0°-30°)	300.1	1.8	B1/500		
BM (30°-60°)	406.8	2.5	B1/1000		
BH (60°-80°)	293.5	1.8	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	2127.0	2100.5	2108.9	2096.9	2069.2	2028.3	1992.2	1940.4	1888.7	1880.2	1822.4
5°	2407.4	2400.2	2390.6	2355.7	2336.4	2273.8	2199.2	2110.1	2003.0	1983.7	1879.0
7.5°	2598.9	2595.3	2600.0	2582.0	2565.1	2508.6	2429.1	2307.5	2141.4	2130.6	1956.1
10°	2661.4	2671.0	2689.1	2718.0	2744.5	2726.4	2666.3	2514.6	2320.8	2289.5	2043.9
12.5°	2625.3	2636.1	2679.5	2756.6	2842.0	2891.4	2867.3	2756.6	2511.0	2485.7	2142.6
15°	2532.6	2545.8	2607.2	2726.4	2879.3	3018.9	3079.1	2999.7	2732.4	2691.6	2261.8
17.5°	2395.4	2414.7	2502.5	2660.2	2869.7	3110.4	3280.1	3253.7	2968.4	2929.8	2391.8
20°	2291.9	2306.3	2380.9	2561.5	2828.7	3161.0	3471.5	3546.2	3259.7	3193.5	2544.7
22.5°	2360.5	2365.3	2390.6	2498.9	2755.3	3174.2	3640.1	3850.7	3569.1	3510.0	2703.5
25°	2696.3	2648.2	2622.9	2598.9	2739.6	3162.1	3792.9	4168.5	3877.2	3814.6	2861.2
27.5°	3226.0	3204.3	3076.7	2905.8	2873.3	3177.8	3894.0	4469.4	4167.3	4099.9	3015.3
30°	3802.6	3765.2	3687.0	3436.7	3185.1	3288.6	3967.5	4762.0	4510.4	4421.3	3156.2
32.5°	4332.2	4356.3	4239.6	3981.9	3690.6	3524.5	4062.6	5080.9	4904.0	4793.2	3319.8
35°	4949.7	4997.9	4818.5	4571.8	4231.1	3950.6	4247.9	5440.8	5403.5	5263.9	3572.7
37.5°	5576.8	5605.7	5496.2	5149.6	4842.6	4492.3	4597.0	5885.0	6018.6	5899.4	3874.8
40°	6104.1	6143.8	6063.2	5755.0	5427.6	5119.4	5103.8	6368.9	6750.5	6627.7	4325.0
42.5°	6507.4	6537.4	6539.9	6321.9	6027.1	5887.4	5750.2	6986.4	7667.8	7525.6	4847.4
45°	7016.5	7059.8	7034.6	6886.5	6666.2	6640.9	6569.9	7732.8	8765.5	8586.1	5525.1
47.5°	7803.8	7832.7	7770.0	7595.5	7371.6	7411.3	7369.2	8569.3	9885.0	9730.9	6226.9
50°	8350.2	8398.4	8487.5	8557.3	8394.8	8247.9	8122.8	9350.5	10947.9	10809.5	6944.3
52.5°	8344.2	8423.7	8705.3	9056.8	9411.9	9367.4	9007.5	10213.6	11962.6	11791.7	7618.4
55°	7782.1	7936.2	8350.2	8973.7	9957.2	10447.1	10283.5	11212.7	12838.9	12723.4	8399.6
57.5°	6621.7	6715.6	7291.0	8162.5	9652.7	10955.1	11761.6	12566.9	13889.8	13835.6	9613.0
60°	4453.8	4495.9	5236.2	6313.6	8217.8	10448.4	12845.0	14205.2	15183.8	15157.3	11029.7
62.5°	2551.9	2570.0	3106.8	4015.6	5847.7	8854.6	12936.4	16226.2	16735.4	16749.9	12669.2
65°	1373.5	1383.1	1816.4	2356.9	3558.2	6311.1	11632.8	17333.7	17989.7	18017.4	13685.1
66°	1185.7	1139.9	1445.7	2009.0	2831.2	5023.2	10808.2	17293.9	18230.4	18200.3	13649.0
67.5°	901.6	942.5	1154.4	1544.4	2098.1	3571.4	8923.2	16524.7	18047.4	17953.6	13094.1
70°	645.2	662.0	822.2	1101.4	1428.8	1959.7	5702.0	13724.9	16403.1	16276.8	11407.7
72.5°	416.5	434.6	582.6	796.9	1032.8	1070.1	3192.3	9916.3	12646.3	12628.3	8591.0
75°	297.3	314.1	385.2	570.6	776.4	662.0	1537.2	6683.1	8039.7	7985.5	5314.5
77.5°	215.5	223.9	257.6	373.2	554.9	474.3	712.6	3569.1	4002.4	4191.4	2348.5
80°	123.9	131.2	179.4	227.5	375.5	323.8	340.7	1432.4	1477.0	1406.0	734.3
82.5°	61.4	69.8	107.1	155.3	234.7	217.9	156.5	431.0	455.0	442.9	185.3
85°	14.4	18.1	60.2	102.3	114.3	97.5	75.9	126.4	156.5	152.8	71.0
87.5°	1.2	2.4	21.7	18.1	19.3	32.5	26.5	32.5	50.6	47.0	25.3
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°	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1796.0	1773.1	1706.9	1641.9	1587.7	1531.2	1479.4	1449.3	1437.3	1424.0	1430.0
5°	1821.3	1765.9	1632.2	1516.7	1403.5	1307.2	1230.2	1180.8	1156.8	1153.2	1147.2
7.5°	1854.9	1759.9	1552.8	1372.2	1224.2	1117.0	1029.2	958.2	936.5	917.2	901.6
10°	1895.9	1749.0	1454.1	1220.5	1062.9	928.1	812.5	728.3	684.9	672.9	681.3
12.5°	1939.2	1728.6	1350.6	1080.9	899.2	727.0	619.9	577.8	565.7	560.9	562.1
15°	1982.6	1703.3	1242.2	946.1	716.2	580.2	530.9	520.0	515.2	512.8	510.4
17.5°	2022.3	1662.3	1120.6	814.9	580.2	496.0	477.9	468.2	458.6	455.0	449.0
20°	2069.2	1615.4	1011.2	668.1	491.1	449.0	427.3	409.3	394.8	385.2	384.0
22.5°	2113.7	1555.2	896.8	553.7	447.8	403.2	368.3	349.1	332.2	320.2	323.8
25°	2137.8	1481.7	794.4	482.7	408.1	357.5	319.0	294.9	276.9	270.8	269.7
27.5°	2137.8	1391.5	694.5	441.8	371.9	316.6	276.9	254.0	241.9	233.5	234.7
30°	2121.0	1291.6	601.9	410.4	340.7	280.5	243.1	222.7	213.1	207.0	205.9
32.5°	2107.8	1196.5	522.4	380.4	308.2	249.2	216.7	201.0	191.4	185.3	185.3
35°	2128.2	1114.7	461.0	350.3	278.0	225.1	196.2	181.7	172.1	167.3	166.2
37.5°	2182.4	1040.0	414.1	317.8	250.4	204.6	181.7	164.9	155.3	149.2	146.9
40°	2316.0	997.9	379.2	287.7	223.9	187.8	164.9	149.2	137.3	131.2	130.0
42.5°	2530.3	999.1	345.5	260.0	203.4	173.4	150.5	132.4	119.2	113.1	112.0
45°	2852.9	1044.8	319.0	233.5	185.3	157.7	134.8	115.6	103.5	97.5	97.5
47.5°	3239.2	1133.9	296.1	210.6	168.5	143.2	119.2	99.9	87.9	83.1	83.1
50°	3658.1	1249.4	273.3	186.6	154.1	127.6	102.3	86.7	77.0	73.4	73.4
52.5°	4085.5	1389.1	250.4	167.3	138.4	110.7	87.9	77.0	68.6	66.2	65.0
55°	4646.4	1567.3	226.3	146.9	121.6	95.1	78.2	67.4	57.8	54.2	52.9
57.5°	5509.4	1835.7	199.8	128.8	99.9	79.5	67.4	56.6	45.7	39.7	38.5
60°	6550.7	2163.1	172.1	113.1	80.6	65.0	54.2	43.3	33.7	26.5	25.3
62.5°	7525.6	2371.3	145.6	95.1	63.8	49.3	38.5	32.5	24.0	16.8	15.7
65°	7956.6	2301.6	120.3	77.0	50.6	34.9	25.3	22.9	14.4	7.2	6.0
66°	7813.4	2198.0	110.7	69.8	45.7	30.1	21.7	19.3	10.8	3.6	3.6
67.5°	7390.9	1953.7	96.3	60.2	39.7	24.0	16.8	14.4	6.0	1.2	0.0
70°	6332.8	1580.5	75.9	44.6	28.9	16.8	9.6	7.2	3.6	0.0	0.0
72.5°	4864.2	1177.2	60.2	33.7	20.4	9.6	4.8	2.4	3.6	0.0	0.0
75°	2980.4	672.9	47.0	25.3	13.2	6.0	3.6	0.0	3.6	1.2	0.0
77.5°	1322.9	302.2	31.3	16.8	9.6	4.8	2.4	0.0	2.4	1.2	0.0
80°	334.7	98.7	18.1	12.1	7.2	3.6	1.2	0.0	2.4	2.4	1.2
82.5°	91.5	36.1	13.2	9.6	6.0	3.6	1.2	0.0	2.4	2.4	2.4
85°	36.1	16.8	12.1	9.6	7.2	3.6	1.2	0.0	2.4	2.4	2.4
87.5°	16.8	12.1	12.1	10.8	8.5	3.6	1.2	0.0	2.4	1.2	2.4
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)