

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: P648186

Luminaire Tested: **GALN-SA9A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648186
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-SA9A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 23483 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

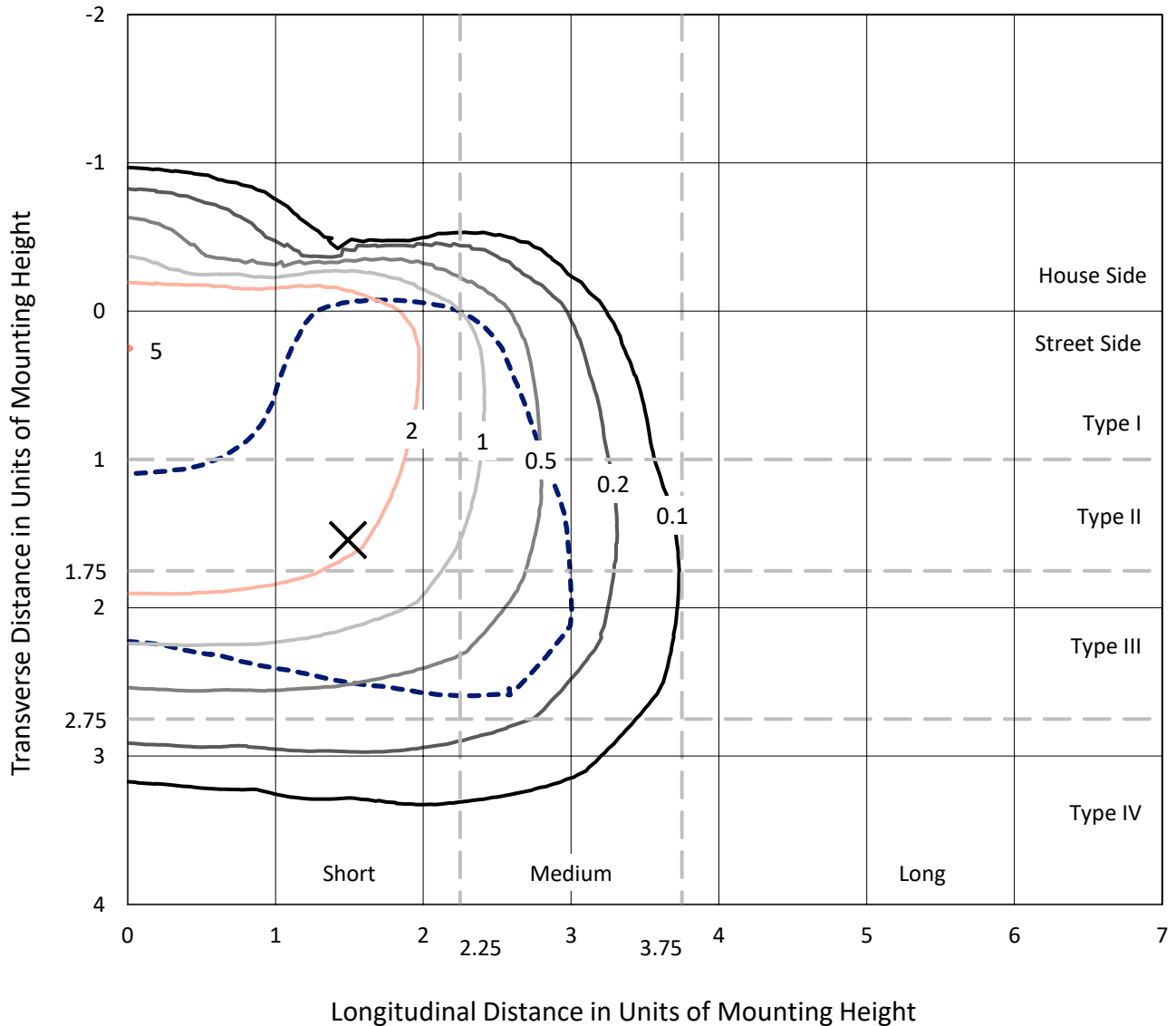
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

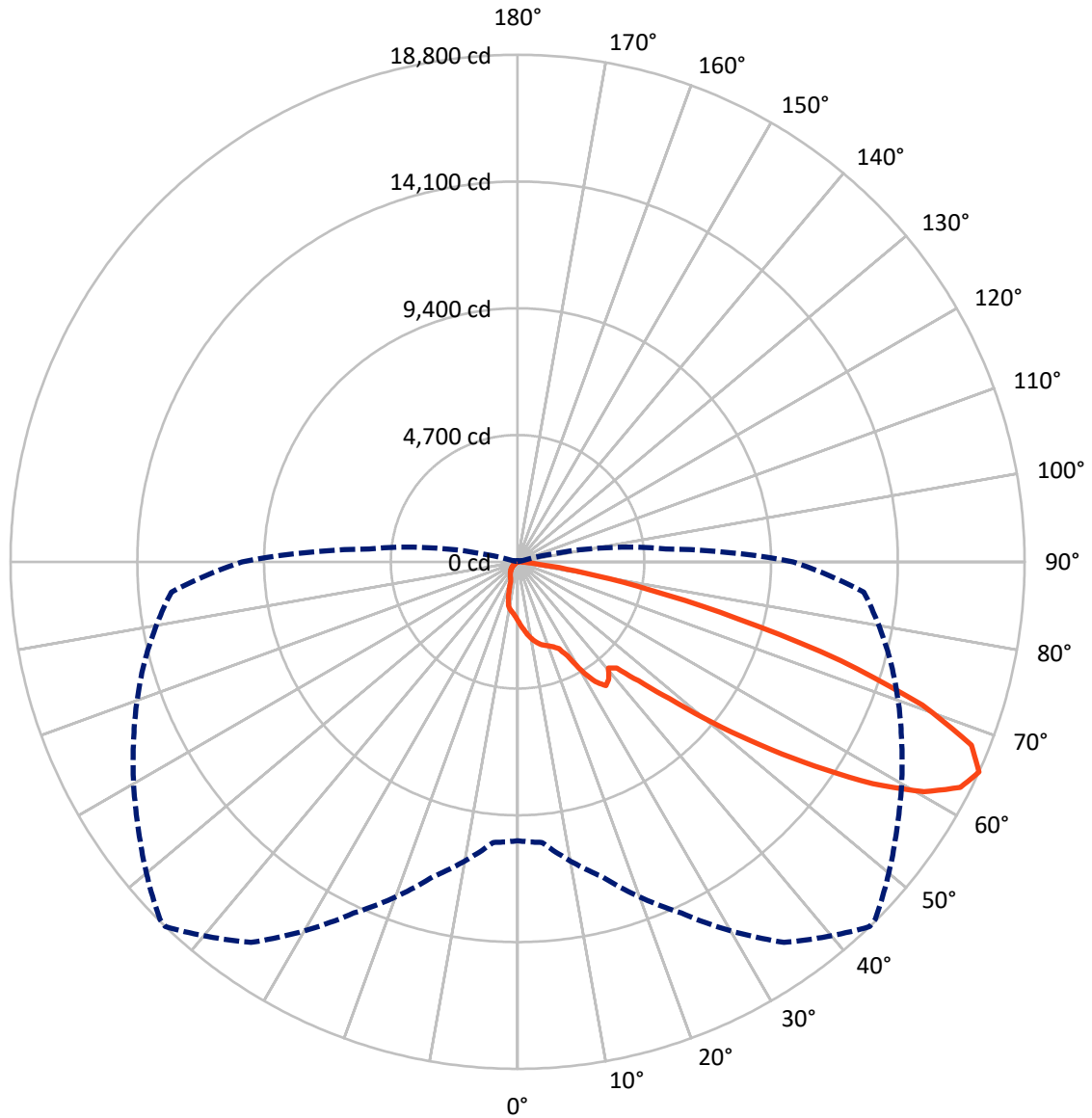
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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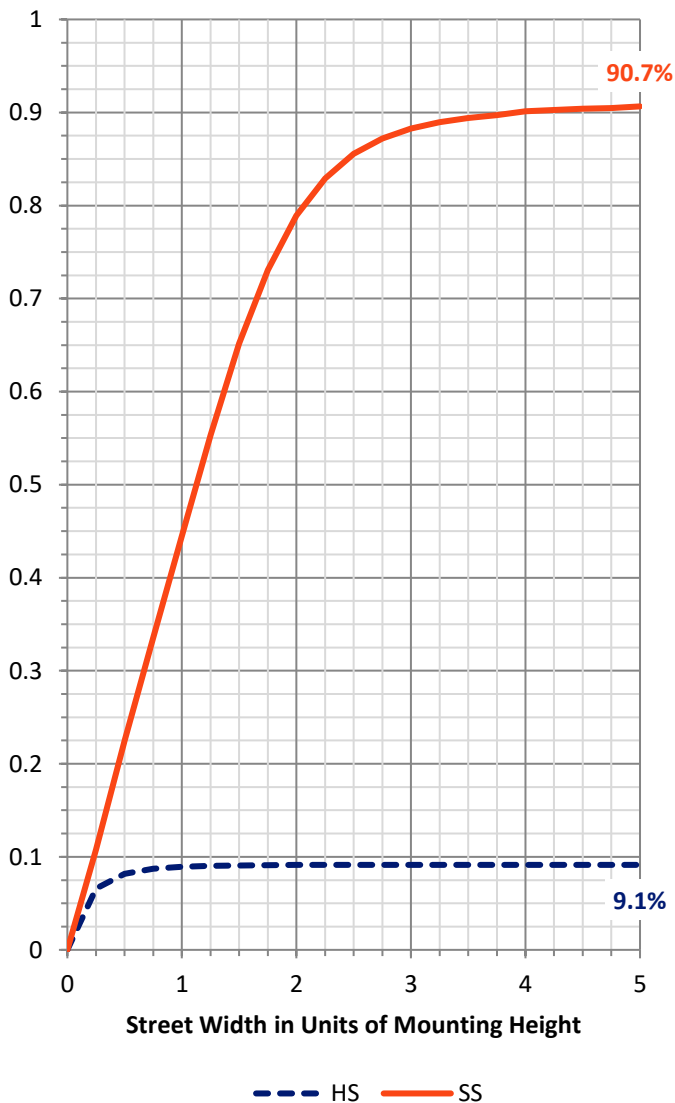
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.6	0.0	2163.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21319.4	0.0	21319.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	23483.0	0.0	23483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	0.9
10°-20°	654.2	2.8
20°-30°	1109.3	4.7
30°-40°	1844.5	7.9
40°-50°	3220.5	13.7
50°-60°	6291.7	26.8
60°-70°	7299.8	31.1
70°-80°	2658.2	11.3
80°-90°	187.3	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°	23483.0	100.0
0°-180°	23483.0	100.0

Coefficient of Utilization



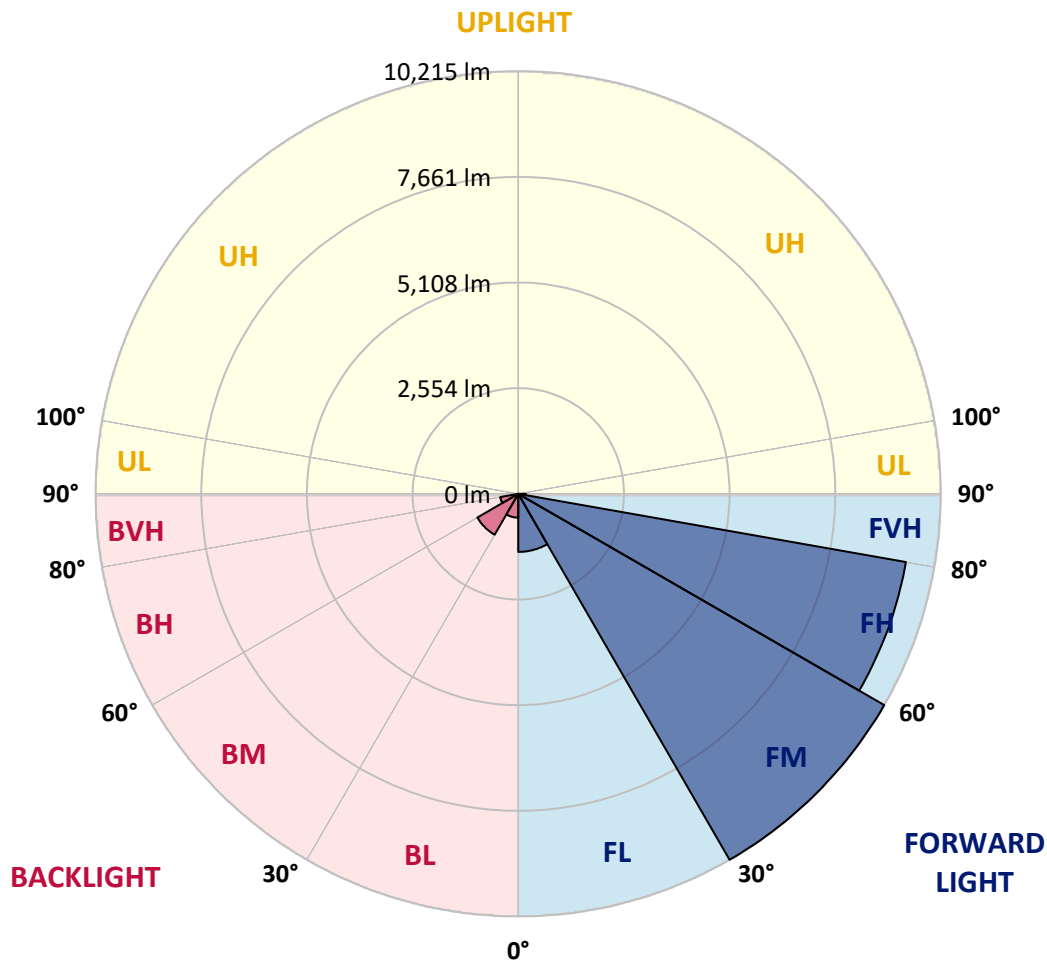
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.5	6.0			
FM (30°-60°)	10215.1	43.5			
FH (60°-80°)	9515.0	40.5			G4/12000
FVH (80°-90°)	184.8	0.8			G2/225
BL (0°-30°)	576.5	2.5	B2/1000		
BM (30°-60°)	1141.5	4.9	B2/2500		
BH (60°-80°)	443.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6
2.5°	2460.1	2449.3	2444.0	2415.2	2393.7	2366.8	2366.8	2332.7	2293.3	2250.2	2210.7
5°	2734.6	2716.7	2693.4	2668.2	2618.0	2546.2	2546.2	2474.4	2391.9	2318.4	2237.6
7.5°	2998.4	2982.3	2942.8	2894.4	2811.8	2736.4	2731.0	2627.0	2528.3	2417.0	2302.2
10°	3229.9	3217.3	3183.2	3090.0	3003.8	2905.1	2903.3	2786.7	2671.8	2535.4	2393.7
12.5°	3391.4	3393.2	3348.3	3258.6	3147.3	3054.0	3046.9	2932.0	2811.8	2664.6	2490.6
15°	3506.2	3506.2	3459.6	3359.1	3258.6	3176.1	3168.9	3068.4	2944.5	2784.9	2596.5
17.5°	3538.5	3549.3	3499.1	3409.3	3328.6	3256.8	3255.0	3170.7	3072.0	2917.7	2704.2
20°	3526.0	3536.7	3497.3	3427.3	3371.7	3330.4	3325.0	3290.9	3199.4	3054.0	2819.0
22.5°	3499.1	3509.8	3481.1	3439.9	3412.9	3425.5	3416.5	3445.2	3396.8	3220.9	2955.4
25°	3504.5	3515.2	3493.7	3470.3	3493.7	3570.8	3594.1	3718.0	3674.9	3432.7	3102.5
27.5°	3673.1	3694.7	3664.1	3674.9	3757.5	3936.8	3981.7	4195.3	4005.0	3701.8	3332.2
30°	4048.1	4033.8	3976.4	4028.4	4315.5	4695.9	4683.4	4649.2	4351.4	4012.2	3604.9
32.5°	4389.1	4376.5	4372.9	4597.2	5117.6	5302.4	5293.5	4963.3	4661.8	4367.6	3874.0
35°	4527.2	4478.8	4468.0	5011.7	5882.0	5638.0	5582.3	5092.5	5038.6	4755.2	4148.6
37.5°	4943.5	4909.4	4742.6	5079.9	5576.9	5496.2	5453.1	5315.0	5440.6	5097.9	4459.0
40°	5801.2	5706.1	5555.4	5225.3	5144.5	5178.6	5221.7	5600.3	5916.1	5566.2	4873.5
42.5°	6867.1	6845.6	6565.7	5950.2	5345.5	5392.1	5447.7	6196.0	6599.8	6271.4	5550.1
45°	8146.5	8177.0	7773.3	7046.5	6253.4	6292.9	6373.7	7075.3	7525.6	7367.7	6614.1
47.5°	9309.2	9286.0	9149.6	8394.2	7662.0	7574.1	7705.1	8204.0	8806.9	8832.0	7934.8
50°	10479.2	10603.0	10400.3	10104.2	9560.5	9375.6	9327.3	9571.2	10490.0	10369.7	9521.0
52.5°	12160.5	12225.1	11844.8	11769.4	11893.2	11293.8	11245.4	11304.6	12126.5	11713.8	10708.9
55°	13217.4	13179.8	13038.0	13626.5	14116.5	13368.2	13307.2	13068.5	13484.8	12663.0	11852.0
57.5°	13551.2	13605.0	13935.2	14999.3	16158.5	15523.2	15411.9	14733.7	14464.5	13547.6	12903.4
60°	13402.3	13501.0	14213.3	15796.0	17403.7	17308.7	17213.6	16074.1	15168.0	14286.9	13641.0
62.5°	12341.8	12479.9	13619.4	15654.2	17825.5	18419.4	18301.0	16910.3	15636.3	14645.8	13770.2
65°	10342.9	10445.1	12081.6	14367.7	17226.1	18799.8	18756.7	17172.3	15709.9	14317.4	12885.5
67.5°	7373.1	7721.2	9237.5	12108.5	15453.3	18150.3	18223.8	16858.2	15019.0	12898.0	10671.2
70°	4634.9	4871.7	5959.2	8668.7	12388.5	15923.4	16165.7	15421.0	13034.4	10054.0	7143.5
72.5°	2210.7	2386.5	3161.7	5487.3	8744.1	12528.4	12720.4	12659.4	10079.1	6334.2	3685.7
75°	985.1	1051.5	1509.1	2801.0	5645.1	8421.1	8918.1	9000.7	6298.3	3098.9	1433.8
77.5°	502.5	504.3	707.0	1356.5	2819.0	5024.3	5122.9	5411.9	3414.7	1365.6	498.8
80°	267.4	285.3	375.1	640.6	1462.4	2474.4	2461.9	2706.0	1514.5	669.3	166.9
82.5°	120.2	132.8	211.7	335.5	714.2	938.4	1012.0	1107.2	649.6	427.0	73.6
85°	35.9	43.1	104.1	168.7	258.4	270.9	303.3	391.2	367.9	303.3	37.7
87.5°	5.4	5.4	43.1	46.7	37.7	48.5	50.3	55.6	118.5	111.3	19.7
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°	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6	2185.6
2.5°	2189.2	2176.6	2131.7	2094.1	2061.7	2042.0	2018.7	2004.3	1997.1	1991.8	1993.6
5°	2198.1	2167.7	2090.5	2029.5	1982.8	1932.5	1898.5	1878.7	1869.7	1855.4	1855.4
7.5°	2248.4	2199.9	2092.3	1998.9	1918.2	1850.0	1785.4	1762.1	1745.9	1742.3	1738.7
10°	2320.1	2259.1	2112.0	1982.8	1867.9	1774.7	1683.1	1602.4	1539.6	1501.9	1496.5
12.5°	2409.8	2321.9	2142.5	1972.1	1824.9	1659.8	1417.5	1254.3	1144.8	1110.8	1116.1
15°	2492.4	2397.3	2173.0	1963.1	1745.9	1376.3	1101.8	915.2	859.5	854.1	855.9
17.5°	2591.1	2478.0	2208.9	1950.5	1528.8	1051.5	818.2	768.0	778.8	796.7	794.9
20°	2693.4	2564.2	2252.0	1875.1	1220.1	791.3	723.1	728.5	744.6	760.8	764.4
22.5°	2802.8	2662.9	2302.2	1693.9	931.3	689.0	685.4	692.6	708.8	726.7	730.3
25°	2953.6	2786.7	2339.9	1457.0	705.2	637.0	644.2	656.8	671.1	690.8	694.4
27.5°	3147.3	2953.6	2359.6	1148.4	610.1	590.4	592.2	610.1	628.0	646.0	646.0
30°	3398.5	3152.7	2320.1	868.5	563.4	545.5	538.3	549.1	572.4	590.4	592.2
32.5°	3622.9	3341.1	2216.0	663.9	529.3	504.3	486.2	488.0	497.0	507.8	509.6
35°	3847.2	3524.2	2038.4	558.0	493.4	464.7	437.9	423.4	416.3	410.9	416.3
37.5°	4134.2	3752.1	1801.5	507.8	463.0	427.0	389.4	358.8	333.8	317.6	321.2
40°	4503.9	4067.8	1521.6	475.5	434.3	391.2	340.9	301.5	258.4	244.1	236.9
42.5°	5114.0	4547.0	1227.4	448.6	405.5	353.5	290.7	236.9	197.4	183.1	186.6
45°	6077.6	5151.7	945.6	419.9	376.9	312.3	244.1	186.6	154.3	147.1	150.7
47.5°	7355.2	5934.0	728.5	387.6	340.9	267.4	192.0	147.1	127.4	125.6	123.8
50°	8557.4	6662.5	608.3	351.7	297.9	222.5	157.9	123.8	111.3	109.5	109.5
52.5°	9644.8	7184.7	495.2	310.5	251.2	183.1	132.8	109.5	98.7	93.3	93.3
55°	10612.0	7525.6	401.9	260.2	197.4	145.3	114.9	98.7	86.1	78.9	77.1
57.5°	11342.3	7566.9	301.5	208.1	147.1	113.1	98.7	86.1	71.8	62.8	59.2
60°	11654.6	7209.9	222.5	157.9	109.5	89.7	78.9	70.0	53.9	44.9	43.1
62.5°	11340.5	6515.4	165.1	120.2	84.3	66.4	55.6	52.1	37.7	26.9	25.1
65°	10215.4	5512.3	131.0	91.5	62.8	48.5	35.9	34.1	23.3	12.5	10.8
67.5°	8184.2	4317.3	104.1	68.2	44.9	32.3	23.3	21.5	12.5	3.6	3.6
70°	5322.1	2759.8	84.3	50.3	28.7	21.5	14.3	10.8	7.2	1.8	0.0
72.5°	2632.4	1290.1	68.2	39.5	19.7	10.8	5.4	3.6	5.4	0.0	0.0
75°	1021.0	459.4	50.3	26.9	10.8	5.4	3.6	0.0	1.8	0.0	0.0
77.5°	339.1	152.5	30.5	14.3	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	125.6	59.2	16.1	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	50.3	23.3	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	14.3	7.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	10.8	7.2	5.4	3.6	1.8	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)