

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: P383052

Luminaire Tested: **GLEON-SA4A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14505.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

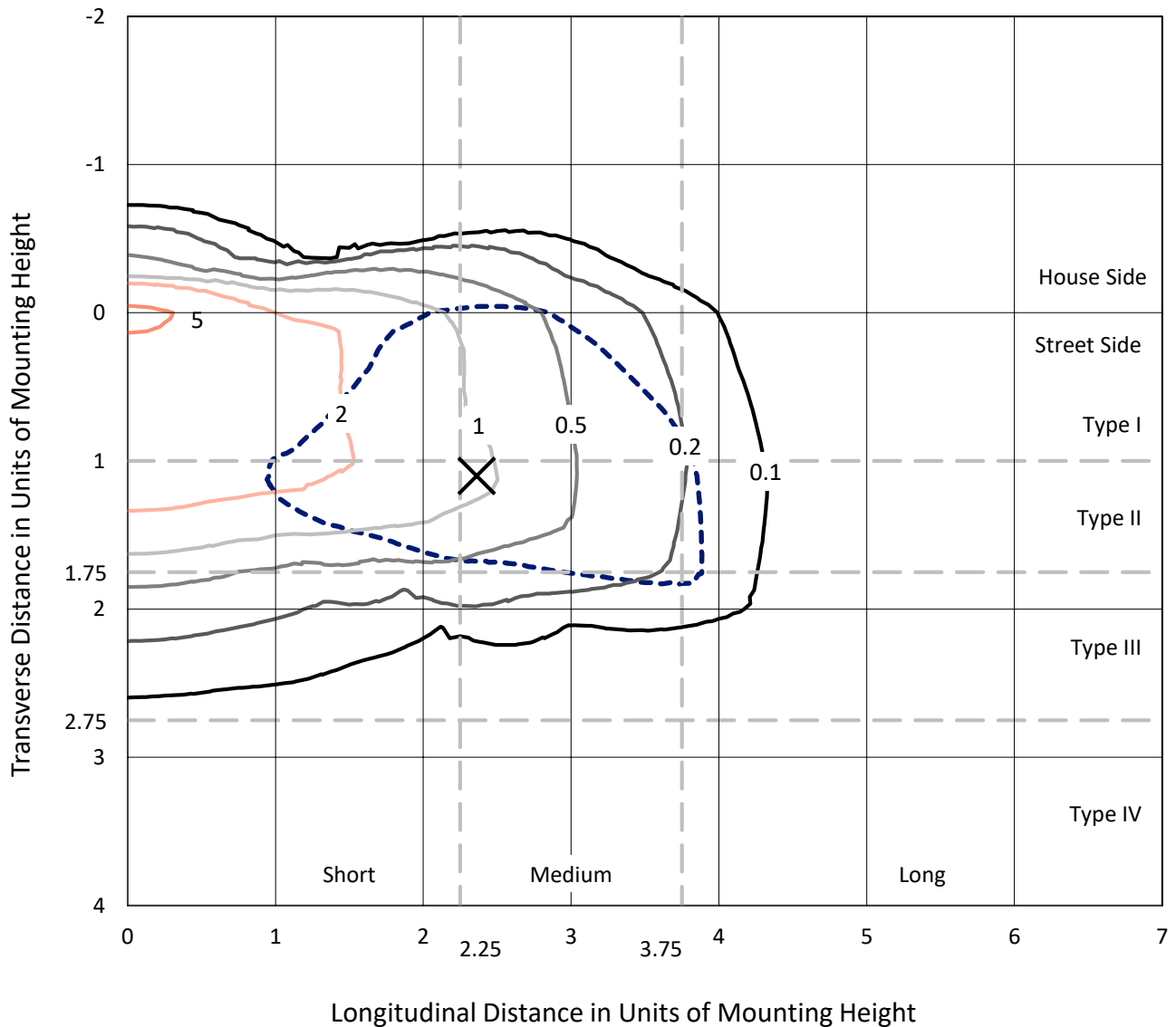
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

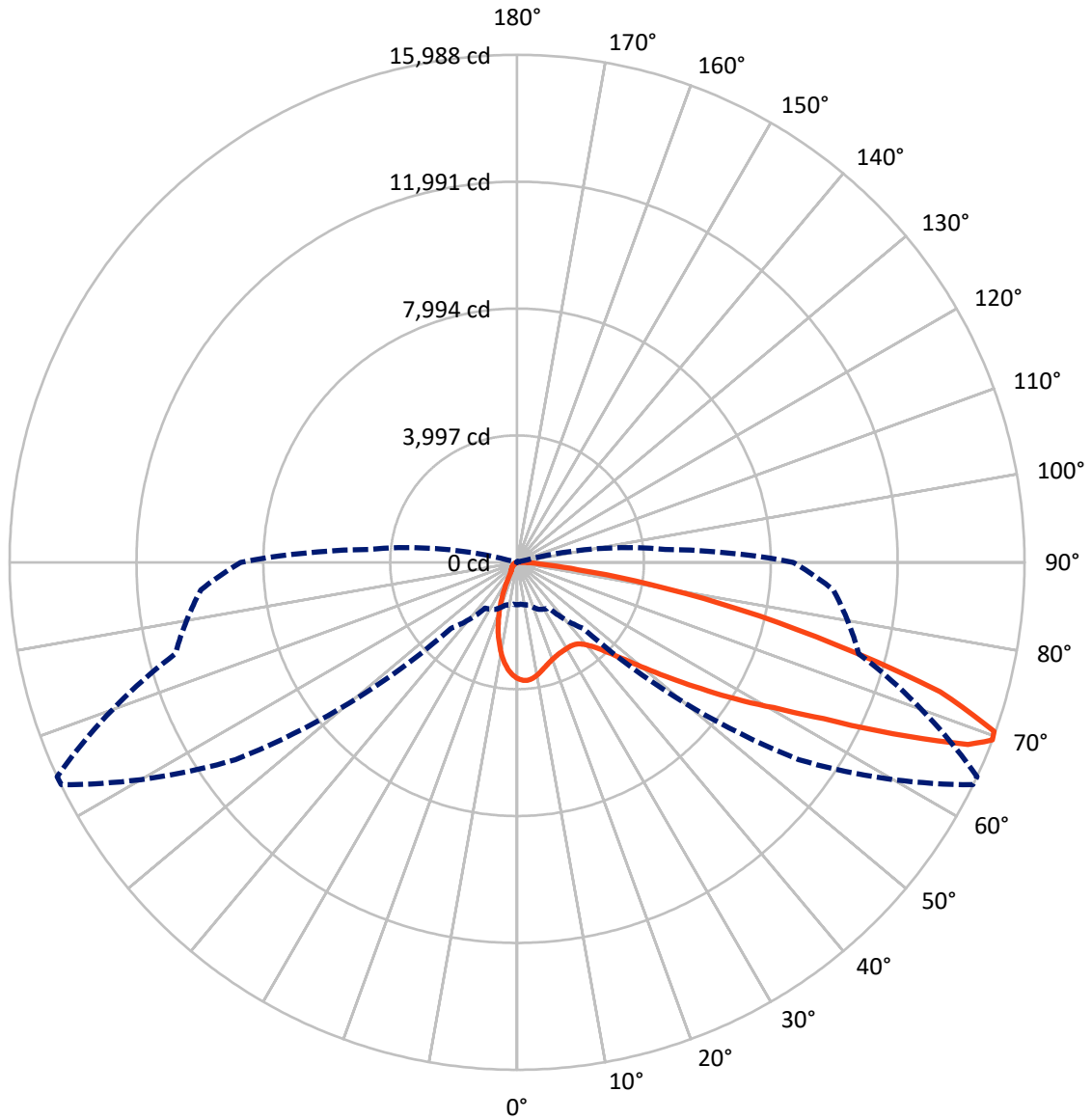
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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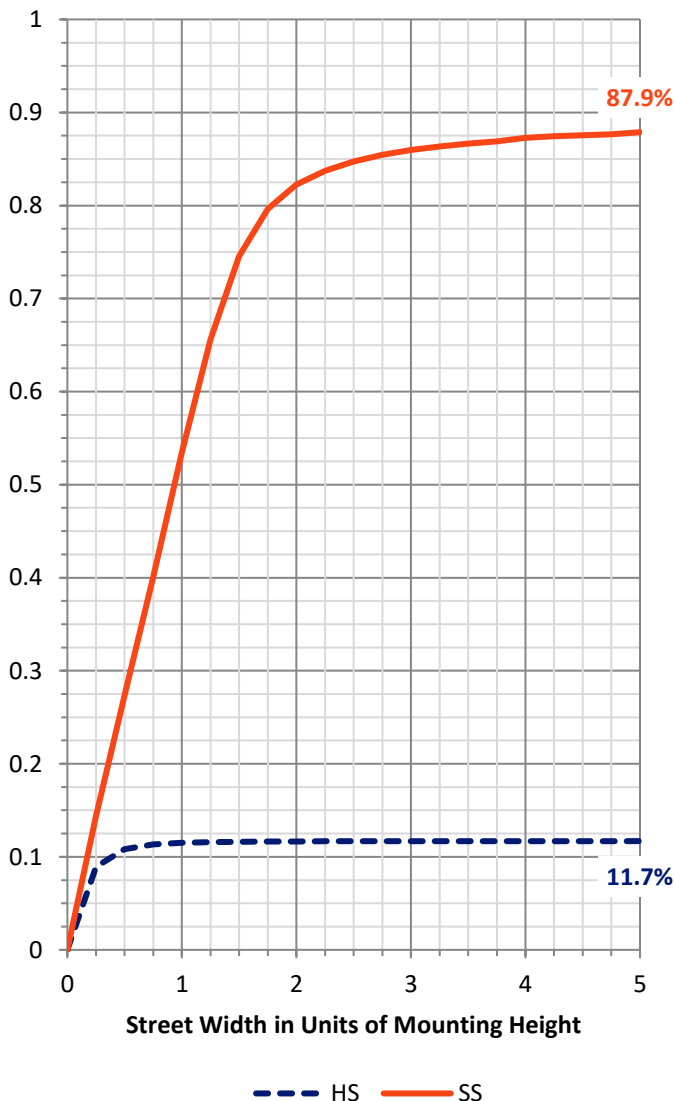
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1709.8	0.0	1709.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12795.3	0.0	12795.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	14505.1	0.0	14505.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	2.1
10°-20°	671.0	4.6
20°-30°	929.3	6.4
30°-40°	1295.7	8.9
40°-50°	2014.0	13.9
50°-60°	3233.3	22.3
60°-70°	3657.4	25.2
70°-80°	2148.0	14.8
80°-90°	249.9	1.7
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°	14505.1	100.0
0°-180°	14505.1	100.0

Coefficient of Utilization

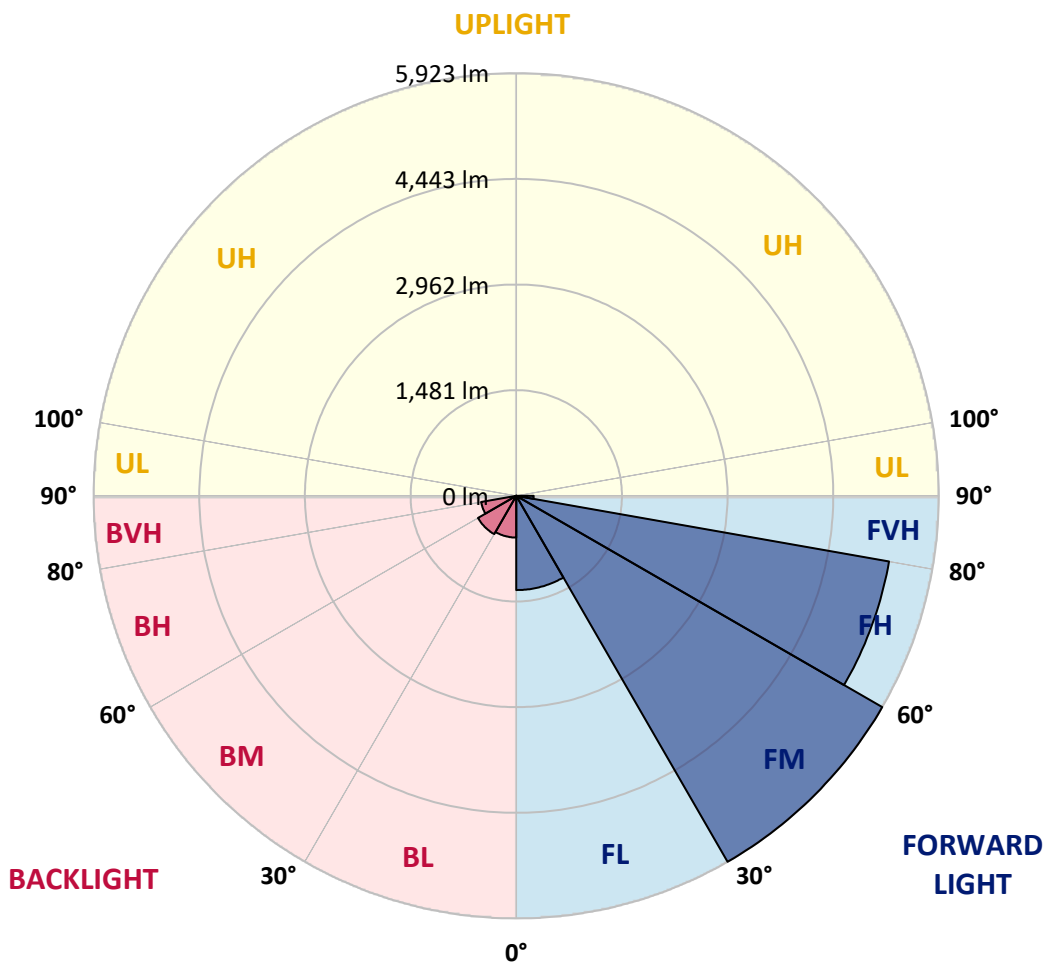


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.8	9.1			
FM (30°-60°)	5923.5	40.8			
FH (60°-80°)	5305.8	36.6			G3/7500
FVH (80°-90°)	244.3	1.7			G3/500
BL (0°-30°)	585.0	4.0	B2/1000		
BM (30°-60°)	619.6	4.3	B1/1000		
BH (60°-80°)	499.6	3.4	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5
2.5°	3698.0	3688.8	3696.2	3712.1	3720.1	3720.1	3726.2	3718.8	3721.3	3703.6	3677.7
5°	3466.6	3452.5	3472.7	3517.5	3572.8	3620.1	3690.0	3726.8	3730.6	3731.1	3701.0
7.5°	3217.4	3204.5	3234.6	3287.4	3358.6	3446.4	3568.5	3675.3	3681.4	3739.1	3717.1
10°	3014.9	3005.6	3040.7	3097.1	3180.6	3278.8	3428.6	3577.0	3594.8	3722.6	3714.5
12.5°	2854.1	2846.7	2879.9	2944.9	3030.2	3138.8	3295.3	3467.9	3491.8	3685.1	3702.3
15°	2736.8	2735.6	2763.2	2825.8	2920.3	3021.7	3181.8	3366.5	3394.2	3644.6	3700.5
17.5°	2675.4	2677.3	2697.6	2751.0	2832.0	2932.6	3086.0	3281.3	3311.3	3608.3	3709.7
20°	2669.3	2671.1	2682.2	2712.3	2778.0	2866.9	3008.2	3209.5	3240.8	3581.4	3724.4
22.5°	2723.3	2722.1	2725.1	2722.1	2759.0	2826.4	2956.5	3154.2	3190.4	3563.5	3736.1
25°	2827.1	2825.2	2824.0	2801.3	2776.8	2812.9	2935.1	3122.9	3157.3	3550.7	3742.8
27.5°	2971.3	2970.1	2968.2	2930.7	2857.1	2834.4	2937.5	3111.3	3140.1	3540.3	3741.6
30°	3160.9	3169.5	3167.1	3114.9	3000.1	2900.1	2963.3	3105.1	3130.3	3520.0	3728.7
32.5°	3383.8	3400.9	3414.4	3358.6	3215.0	3030.2	3022.9	3111.8	3130.3	3504.7	3705.3
35°	3615.1	3637.2	3687.0	3667.3	3478.3	3226.0	3125.3	3152.4	3167.7	3513.2	3694.3
37.5°	3842.8	3869.3	3977.2	4034.3	3823.3	3485.0	3284.9	3252.4	3260.4	3565.4	3706.6
40°	4107.4	4147.2	4311.2	4403.2	4235.1	3831.8	3523.7	3424.3	3427.3	3680.2	3763.6
42.5°	4454.8	4495.9	4673.3	4817.5	4699.1	4270.0	3847.8	3687.0	3683.9	3895.0	3898.1
45°	4878.3	4921.3	5104.8	5265.0	5211.5	4789.3	4262.7	4070.6	4066.9	4233.8	4152.8
47.5°	5358.3	5400.6	5564.5	5729.6	5787.3	5395.7	4791.1	4594.1	4585.5	4704.6	4546.2
50°	5770.1	5797.8	5948.7	6170.9	6431.1	6140.9	5448.5	5258.9	5249.6	5330.0	5123.8
52.5°	5919.9	5935.8	6089.2	6400.5	7049.9	7149.9	6312.1	6067.8	6061.0	6096.0	5892.9
55°	5616.7	5645.6	5833.9	6295.5	7384.9	8290.3	7402.2	7069.5	7018.6	6943.0	6696.9
57.5°	4790.5	4836.6	5039.1	5652.9	7228.4	9195.0	9004.1	8202.5	8127.7	7666.1	7350.6
60°	3589.3	3645.8	3814.0	4476.3	6393.1	9517.2	10754.6	9465.1	9296.3	8241.8	7951.5
62.5°	2463.1	2491.3	2605.4	3036.9	4708.3	8989.3	12219.0	11156.0	10847.9	8867.9	8601.4
65°	1881.3	1891.0	1937.7	2086.2	2803.8	7302.1	12801.5	13387.1	13014.5	9616.6	9276.0
67.5°	1516.0	1508.1	1572.5	1784.8	1877.5	4454.8	12122.0	15497.9	15323.5	10617.7	9954.8
69°	1336.8	1325.8	1391.5	1638.1	1763.4	2944.9	10836.8	15977.3	15988.2	11146.2	10001.5
70°	1203.0	1210.4	1275.4	1551.0	1724.7	2311.4	9609.3	15855.0	15942.2	11343.8	9721.6
72.5°	803.5	823.1	953.8	1287.7	1658.4	1749.3	5802.1	13605.5	13940.7	10898.8	8340.6
75°	453.0	467.7	623.0	971.0	1562.7	1665.8	3064.6	10023.5	10347.6	9114.0	6431.8
77.5°	222.2	230.2	352.3	626.7	1306.8	1587.3	1738.2	6808.6	7178.7	5948.7	3637.9
80°	93.9	98.2	176.2	386.7	934.2	1514.8	1290.8	4190.3	4236.3	2330.5	969.2
82.5°	36.2	37.4	74.2	241.2	593.5	1180.9	1079.7	1986.8	1938.9	438.9	221.0
85°	4.3	4.9	27.0	144.9	330.2	607.6	877.1	856.2	792.4	87.2	113.6
87.5°	0.0	0.0	1.9	44.2	98.2	284.8	456.0	355.4	320.4	28.2	59.0
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°	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5	3665.5
2.5°	3656.2	3650.1	3617.0	3569.1	3523.7	3467.2	3413.2	3380.7	3354.9	3337.7	3357.9
5°	3666.1	3639.1	3538.4	3409.6	3283.1	3140.7	3008.2	2895.8	2851.6	2802.5	2824.6
7.5°	3663.0	3612.1	3431.0	3201.4	2969.5	2729.4	2502.3	2327.5	2236.6	2147.6	2170.3
10°	3647.7	3561.8	3287.4	2947.3	2599.9	2255.0	1932.8	1687.9	1551.0	1427.0	1444.8
12.5°	3613.9	3494.2	3118.0	2656.4	2191.8	1737.0	1359.5	1045.8	877.7	803.5	812.7
15°	3593.6	3428.6	2938.8	2361.8	1756.0	1209.7	831.0	618.1	541.3	516.8	519.9
17.5°	3583.8	3365.3	2753.4	2024.8	1310.4	770.3	537.0	473.9	457.3	453.0	454.2
20°	3574.0	3301.5	2562.5	1691.6	902.9	518.0	441.3	422.9	416.8	411.2	412.5
22.5°	3557.5	3240.1	2357.6	1354.0	608.9	420.4	397.8	379.9	367.0	360.3	361.5
25°	3537.2	3175.6	2148.2	1008.4	444.3	375.0	353.5	328.4	313.0	300.8	301.4
27.5°	3504.7	3096.5	1932.1	734.1	373.2	335.7	306.9	279.3	253.5	239.4	239.4
30°	3459.2	3006.8	1692.2	525.4	334.5	297.1	262.0	227.7	200.1	187.2	185.9
32.5°	3408.9	2913.6	1449.8	398.3	303.8	260.8	221.0	184.7	160.2	149.8	149.1
35°	3366.0	2812.9	1207.9	333.9	273.1	225.9	182.3	151.6	132.0	123.3	122.8
37.5°	3338.3	2712.3	972.3	298.3	245.6	193.3	152.9	125.2	111.1	104.3	103.8
40°	3334.0	2637.4	756.8	271.3	219.8	164.5	127.6	106.2	93.2	85.9	85.3
42.5°	3389.9	2594.5	580.6	248.5	193.3	139.4	108.6	90.8	77.3	70.0	69.4
45°	3536.6	2608.0	446.9	228.3	166.9	117.8	92.0	75.5	63.3	57.7	56.5
47.5°	3804.2	2701.2	355.4	208.1	141.8	100.0	78.5	62.6	52.2	46.7	46.0
50°	4280.5	2920.3	297.1	185.9	118.5	85.3	65.0	51.0	42.4	37.4	36.8
52.5°	4912.7	3310.7	265.1	164.5	98.2	72.4	53.4	40.5	33.2	29.4	28.9
55°	5609.9	3783.3	244.3	141.1	80.4	60.2	42.4	32.0	25.8	22.7	21.5
57.5°	6290.6	4192.7	224.6	118.5	66.9	49.1	33.7	25.2	20.2	17.1	16.6
60°	6916.0	4569.0	202.0	95.1	54.6	38.7	26.4	19.7	15.9	12.9	12.9
62.5°	7585.7	4859.9	170.7	74.2	44.8	29.4	21.5	17.8	12.9	11.1	10.4
65°	8295.2	5075.9	133.8	57.7	35.0	22.1	17.8	18.4	10.4	8.0	7.4
67.5°	8819.3	5033.0	98.8	45.5	27.0	17.1	17.1	19.7	9.2	6.1	5.5
69°	8703.9	4683.7	82.8	39.3	23.3	14.7	15.9	19.7	8.6	5.5	4.9
70°	8369.5	4297.0	73.0	35.0	20.9	13.5	15.4	19.0	8.0	5.5	4.9
72.5°	6970.0	3236.5	57.1	26.4	16.6	11.1	12.9	16.6	8.0	5.5	4.3
75°	5242.8	2071.5	43.6	19.0	12.3	8.6	9.8	12.3	8.0	4.9	4.3
77.5°	2852.9	747.0	31.3	12.9	8.6	6.7	6.7	9.2	7.4	3.7	2.4
80°	733.5	187.8	19.7	8.6	6.7	4.9	4.3	6.1	4.3	0.7	0.0
82.5°	181.1	42.4	10.4	6.1	4.9	1.9	1.9	3.1	1.9	0.0	0.0
85°	99.4	20.9	6.7	4.3	2.4	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	51.0	6.1	1.9	1.2	0.7	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)