

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: P528283

Luminaire Tested: **GALN-SA3B-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9915 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

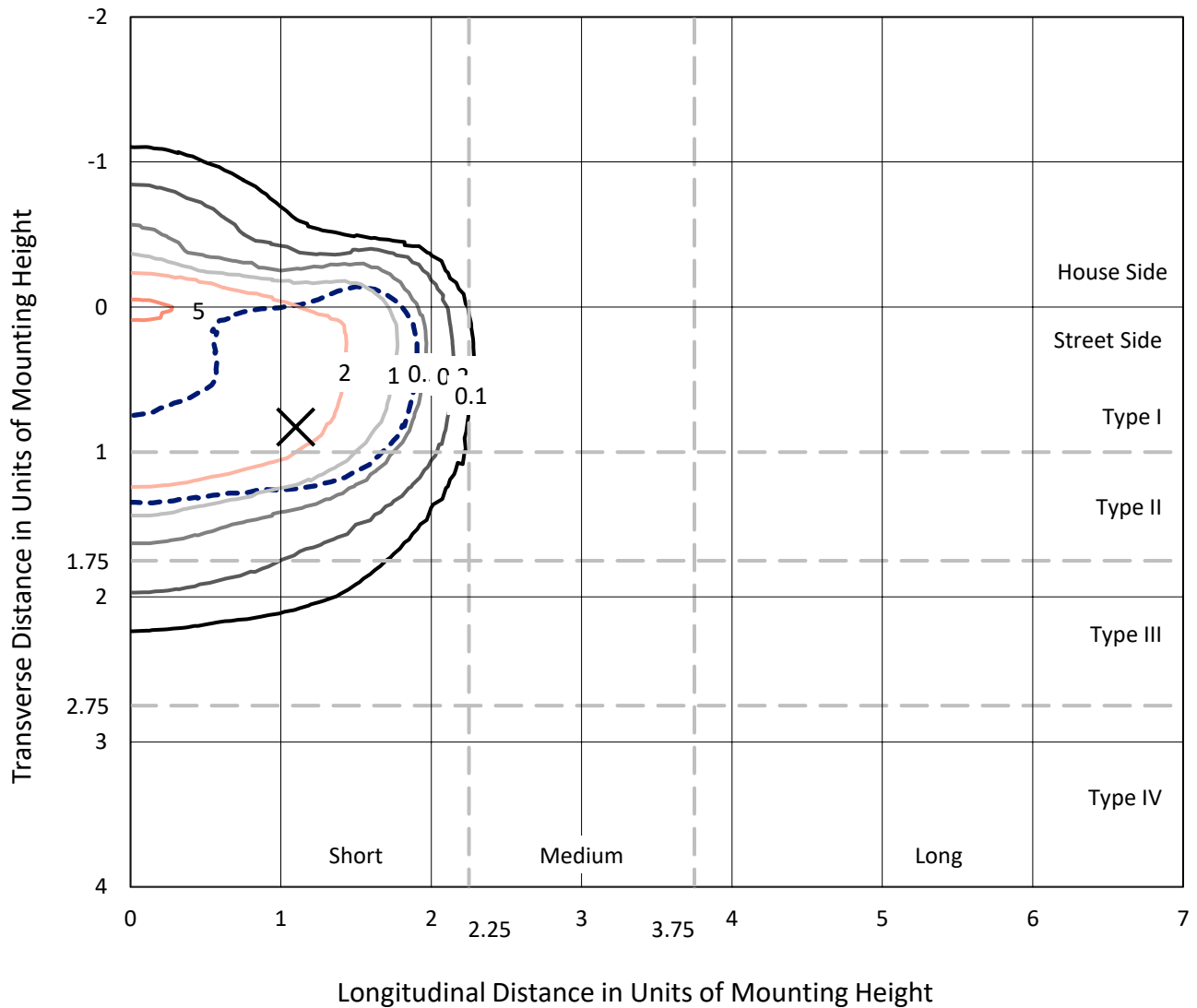
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

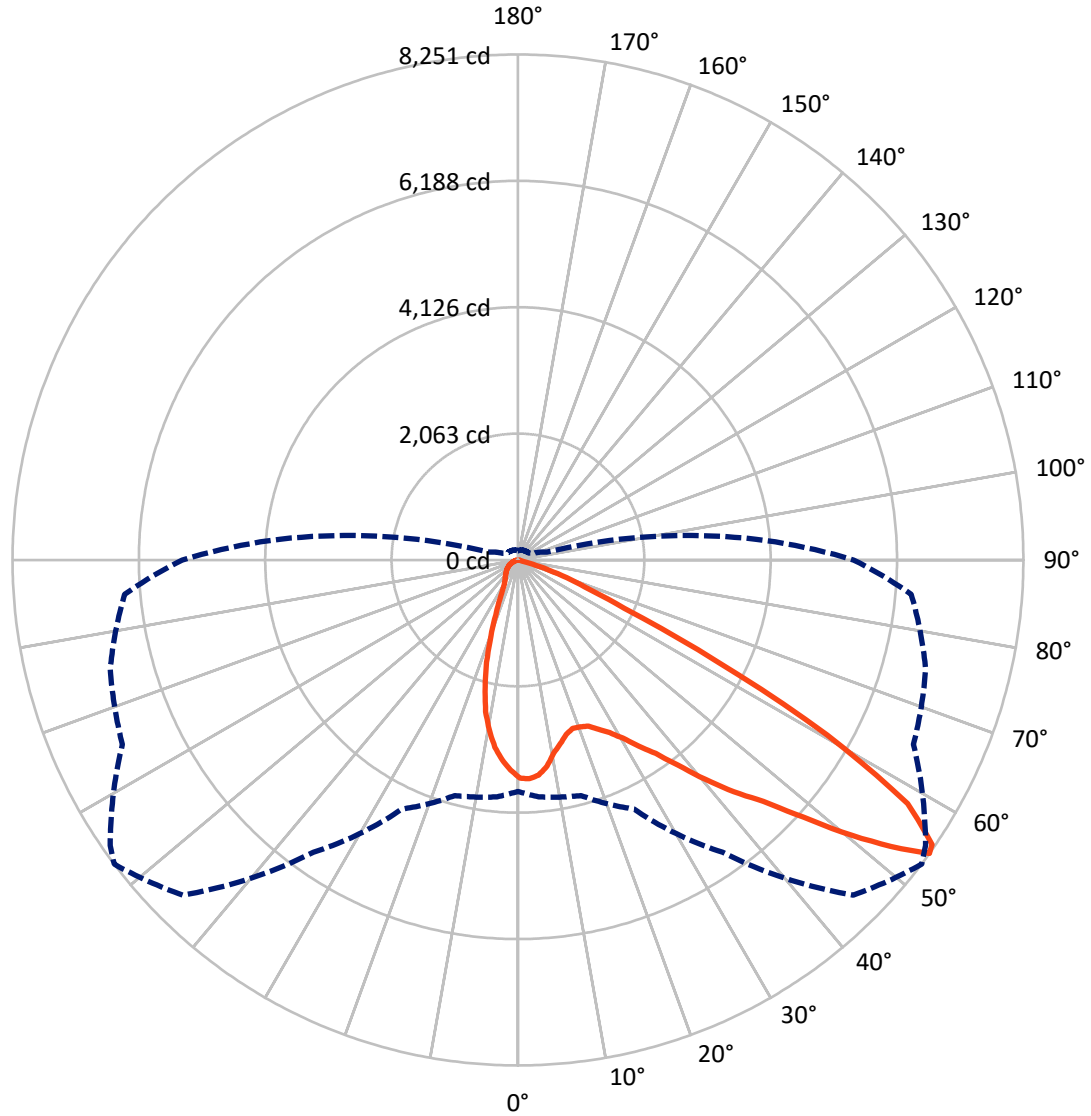
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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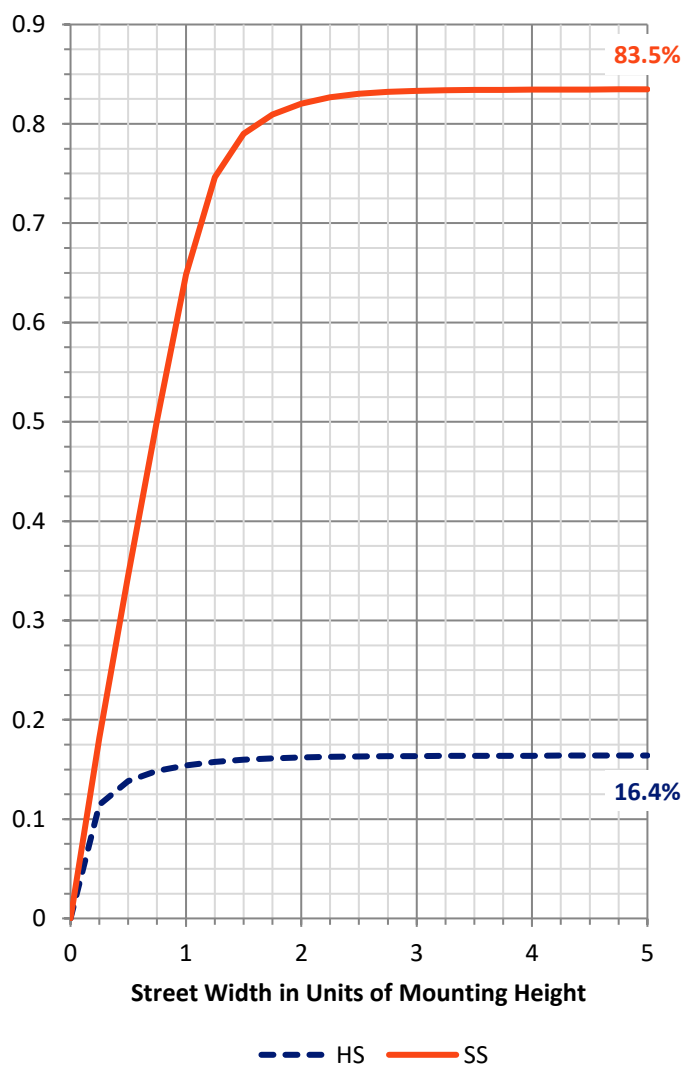
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.5	0.0	1640.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8274.5	0.0	8274.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	9915.0	0.0	9915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	3.1
10°-20°	700.5	7.1
20°-30°	995.6	10.0
30°-40°	1536.5	15.5
40°-50°	2409.1	24.3
50°-60°	2798.5	28.2
60°-70°	1057.4	10.7
70°-80°	100.6	1.0
80°-90°	11.3	0.1
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°	9915.0	100.0
0°-180°	9915.0	100.0

Coefficient of Utilization



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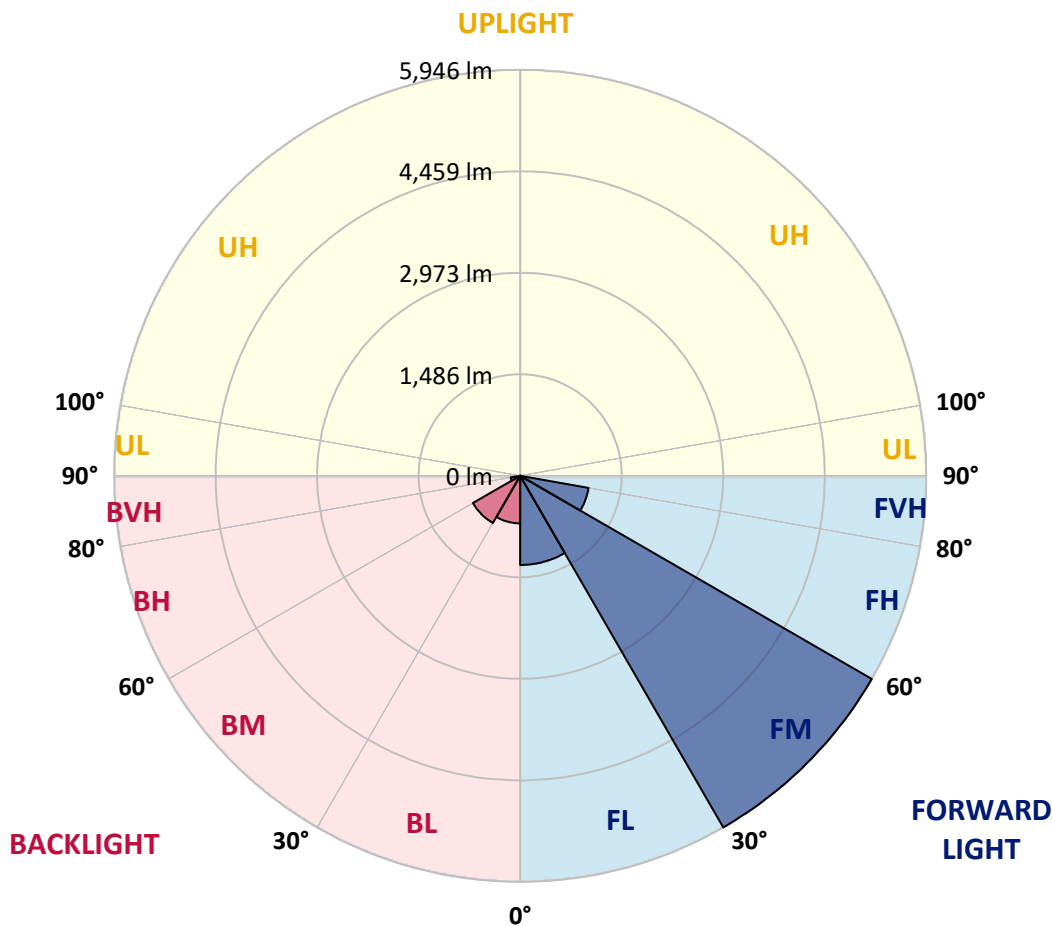
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.5	13.2			
FM (30°-60°)	5945.7	60.0			
FH (60°-80°)	1017.4	10.3			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	696.1	7.0	B2/1000		
BM (30°-60°)	798.3	8.1	B1/1000		
BH (60°-80°)	140.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3
2.5°	3542.8	3511.4	3542.8	3546.5	3568.7	3589.0	3576.1	3605.6	3589.0	3570.5	3565.0
5°	3256.5	3299.0	3300.9	3367.4	3352.6	3474.5	3528.1	3513.3	3603.8	3598.2	3585.3
7.5°	2999.8	2983.1	3005.3	3082.9	3180.8	3321.2	3398.8	3396.9	3526.2	3618.6	3609.3
10°	2761.5	2759.6	2805.8	2866.8	2949.9	3097.7	3204.8	3258.4	3459.7	3600.1	3620.4
12.5°	2600.8	2593.4	2643.3	2693.1	2824.3	2938.8	3075.5	3101.4	3332.3	3535.4	3568.7
15°	2495.5	2512.1	2515.8	2611.9	2695.0	2846.5	2953.6	3007.2	3273.1	3483.7	3611.2
17.5°	2477.0	2499.2	2501.0	2580.5	2669.1	2796.6	2890.8	2962.8	3223.3	3509.6	3613.0
20°	2514.0	2501.0	2512.1	2562.0	2648.8	2770.7	2907.4	2931.4	3206.6	3522.5	3633.3
22.5°	2619.3	2615.6	2587.9	2628.5	2689.4	2816.9	2946.2	2983.1	3254.7	3589.0	3650.0
25°	2735.6	2755.9	2730.1	2724.5	2767.0	2892.6	3064.4	3112.4	3415.4	3709.1	3701.7
27.5°	2953.6	2933.3	2933.3	2907.4	2896.3	2957.3	3191.9	3271.3	3594.5	3864.2	3760.8
30°	3162.3	3184.5	3167.9	3177.1	3103.2	3097.7	3372.9	3470.8	3912.3	4100.7	3886.4
32.5°	3493.0	3463.4	3491.1	3467.1	3369.2	3269.5	3618.6	3720.2	4296.5	4372.2	4074.8
35°	3768.2	3755.3	3873.5	3869.8	3710.9	3613.0	3879.0	4030.5	4564.3	4697.3	4296.5
37.5°	4159.8	4135.8	4270.6	4335.3	4193.0	4047.1	4252.1	4427.6	4813.7	4957.7	4523.7
40°	4562.5	4623.4	4804.4	4911.6	4760.1	4566.1	4708.4	4761.9	4979.9	5127.7	4678.8
42.5°	5072.3	5160.9	5345.6	5438.0	5425.1	5214.5	5172.0	5170.2	5100.0	5079.7	4793.3
45°	5561.8	5528.5	5813.0	6014.3	6176.9	6115.9	5619.0	5563.6	5290.2	5151.7	4822.9
47.5°	5776.0	5764.9	5958.9	6317.2	6871.4	6947.1	6269.2	6055.0	5611.6	5454.6	4983.6
50°	5499.0	5556.2	5748.3	6145.5	6995.1	7573.3	7067.2	6779.0	5986.6	5824.1	5364.1
52.5°	4593.9	4632.6	4815.5	5319.8	6574.0	7942.7	7831.9	7665.7	6675.6	6405.9	6027.2
54°	3777.4	3880.9	3980.6	4486.7	5824.1	7737.7	8251.2	8123.8	7124.4	6889.9	6444.7
55°	3289.8	3350.7	3422.8	3927.0	5305.0	7390.4	8203.2	8214.3	7425.5	7041.3	6725.5
57.5°	2403.1	2445.6	2371.7	2595.2	3642.6	6001.4	7503.1	7802.4	7831.9	7268.5	6897.2
60°	1836.1	1854.5	1771.4	1806.5	2264.6	4119.1	5803.7	6163.9	7065.3	6352.3	5842.5
62.5°	1424.2	1427.8	1426.0	1487.0	1560.8	2423.5	3629.6	3949.2	4870.9	4510.7	3967.7
65°	1049.2	1032.6	1062.1	1246.8	1331.8	1523.9	1911.8	2144.5	2647.0	2235.0	1597.8
67.5°	679.8	685.3	714.8	927.3	1141.5	1169.2	1176.6	1158.2	1160.0	639.1	400.8
70°	408.2	417.5	408.2	524.6	816.4	838.6	766.6	748.1	583.7	151.5	149.6
72.5°	242.0	229.0	205.0	225.4	339.9	406.4	365.7	363.9	229.0	88.7	88.7
75°	101.6	92.4	75.7	68.3	90.5	86.8	86.8	77.6	61.0	59.1	55.4
77.5°	20.3	20.3	14.8	16.6	22.2	25.9	31.4	31.4	36.9	36.9	35.1
80°	0.0	1.8	5.5	11.1	16.6	24.0	27.7	27.7	31.4	31.4	25.9
82.5°	0.0	1.8	5.5	11.1	14.8	22.2	27.7	27.7	31.4	33.2	27.7
85°	0.0	1.8	5.5	9.2	14.8	18.5	18.5	16.6	12.9	11.1	7.4
87.5°	0.0	0.0	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3	3561.3
2.5°	3577.9	3576.1	3531.7	3459.7	3443.1	3382.1	3374.7	3337.8	3358.1	3289.8	3282.4
5°	3548.4	3526.2	3472.6	3426.5	3291.6	3195.6	3119.8	3027.5	2973.9	2983.1	2948.0
7.5°	3590.9	3533.6	3439.4	3278.7	3114.3	2946.2	2855.7	2667.3	2598.9	2497.3	2482.6
10°	3546.5	3504.0	3358.1	3092.1	2864.9	2622.9	2410.5	2201.8	2042.9	1974.6	1959.8
12.5°	3542.8	3468.9	3225.1	2929.6	2600.8	2253.5	1945.0	1684.6	1527.6	1438.9	1418.6
15°	3485.6	3396.9	3075.5	2678.4	2224.0	1791.7	1455.6	1204.3	1084.3	1032.6	1047.3
17.5°	3491.1	3358.1	2925.9	2412.4	1852.7	1315.2	993.8	864.5	833.1	846.0	846.0
20°	3485.6	3271.3	2744.9	2105.7	1418.6	912.5	729.6	683.4	703.8	744.4	735.2
22.5°	3456.0	3230.7	2578.6	1782.5	1043.6	676.1	585.5	587.4	618.8	668.7	679.8
25°	3478.2	3140.2	2368.0	1455.6	761.0	539.4	508.0	520.9	554.1	591.1	598.5
27.5°	3461.6	3075.5	2148.2	1130.5	556.0	463.6	461.8	476.6	491.3	519.0	519.0
30°	3480.0	3016.4	1932.1	840.5	458.1	424.8	417.5	428.5	443.3	448.9	447.0
32.5°	3548.4	2972.1	1682.8	628.0	404.5	387.9	387.9	387.9	386.1	393.4	395.3
35°	3698.0	2979.4	1462.9	485.8	369.4	356.5	351.0	343.6	339.9	343.6	345.4
37.5°	3860.5	2975.8	1235.7	413.8	343.6	332.5	319.6	308.5	306.6	310.3	304.8
40°	3932.6	3010.9	1025.2	371.3	319.6	306.6	286.3	277.1	278.9	282.6	278.9
42.5°	4030.5	3021.9	888.5	338.0	297.4	277.1	264.1	253.1	251.2	256.8	254.9
45°	4028.6	2959.1	744.4	319.6	277.1	254.9	238.3	229.0	229.0	232.7	234.6
47.5°	4146.8	2949.9	639.1	302.9	262.3	240.1	219.8	212.4	210.6	210.6	206.9
50°	4422.1	3079.2	557.8	284.5	243.8	223.5	206.9	197.6	190.3	186.6	184.7
52.5°	4959.6	3481.9	495.0	262.3	223.5	206.9	192.1	184.7	175.5	166.2	164.4
54°	5480.5	3897.5	491.3	243.8	206.9	195.8	182.9	179.2	168.1	155.2	151.5
55°	5715.1	4139.5	504.3	229.0	195.8	188.4	177.3	173.6	162.5	147.8	145.9
57.5°	5909.0	4233.7	496.9	190.3	177.3	175.5	166.2	160.7	147.8	127.5	123.8
60°	4756.4	3201.1	356.5	168.1	162.5	158.9	151.5	147.8	131.1	109.0	107.1
62.5°	3005.3	1841.6	227.2	147.8	142.2	136.7	127.5	123.8	109.0	86.8	81.3
65°	1280.1	762.9	153.3	131.1	121.9	112.7	105.3	99.7	86.8	64.7	62.8
67.5°	332.5	271.5	127.5	114.5	101.6	88.7	83.1	73.9	59.1	44.3	42.5
70°	149.6	136.7	107.1	96.1	81.3	68.3	61.0	51.7	38.8	29.6	27.7
72.5°	88.7	86.8	81.3	72.0	61.0	51.7	44.3	35.1	25.9	16.6	16.6
75°	55.4	53.6	55.4	49.9	42.5	38.8	33.2	24.0	14.8	7.4	7.4
77.5°	33.2	33.2	33.2	31.4	29.6	29.6	24.0	14.8	7.4	1.8	1.8
80°	25.9	25.9	27.7	25.9	25.9	25.9	20.3	11.1	3.7	0.0	0.0
82.5°	25.9	27.7	31.4	29.6	25.9	22.2	18.5	11.1	3.7	0.0	0.0
85°	7.4	5.5	9.2	12.9	18.5	16.6	12.9	9.2	3.7	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	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)