

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: P527739

Luminaire Tested: **GALN-SA2D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8475 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

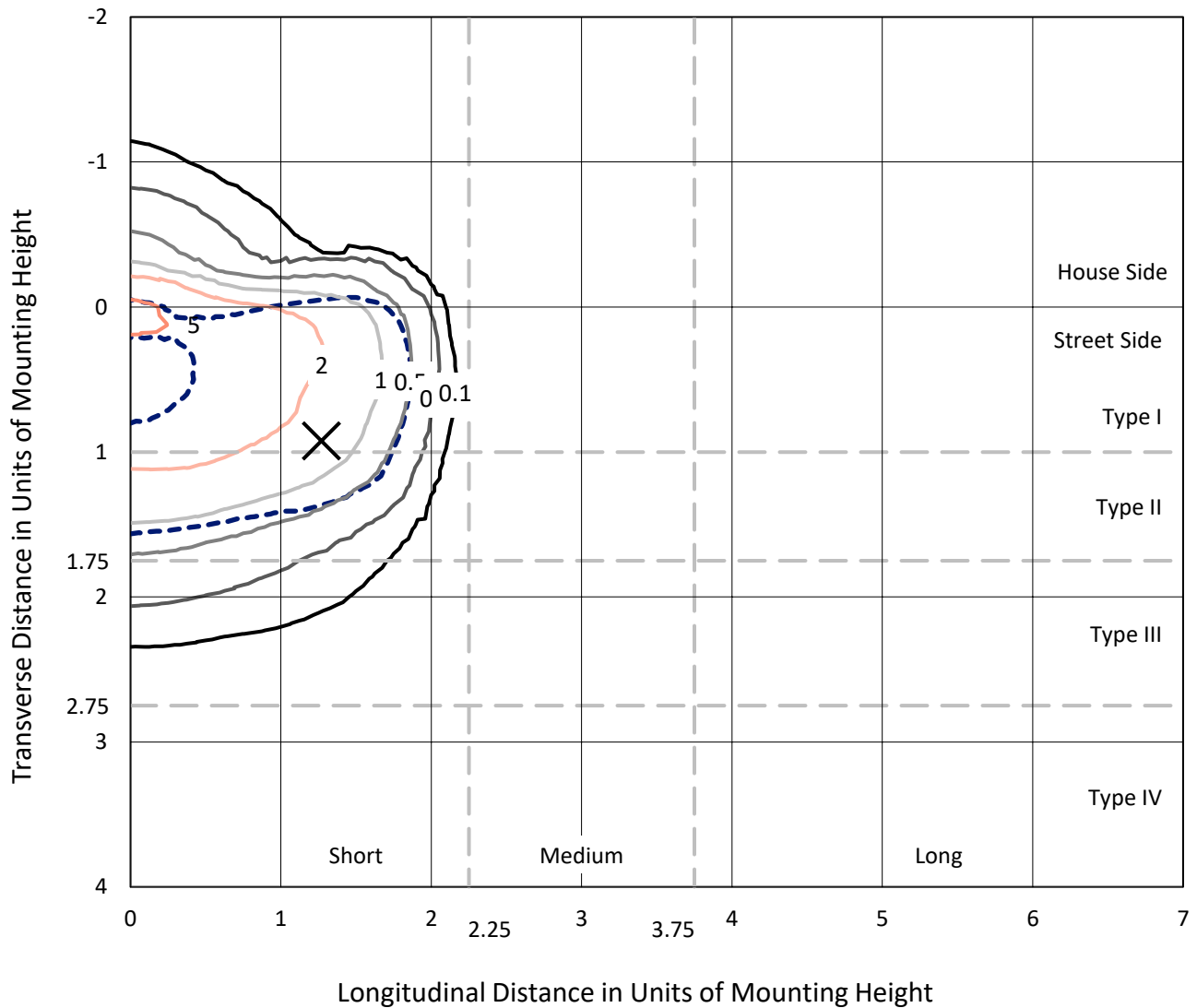
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

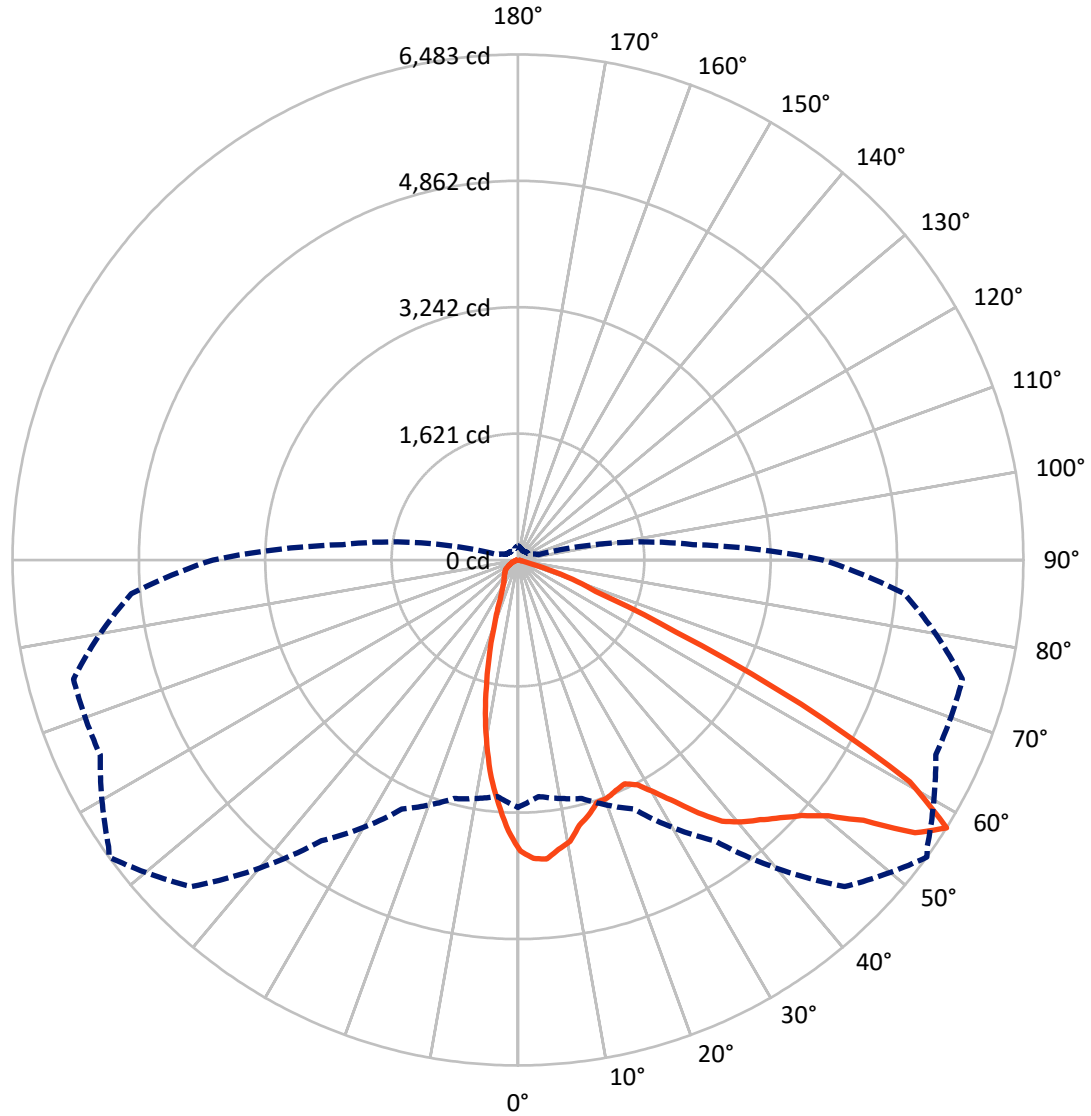
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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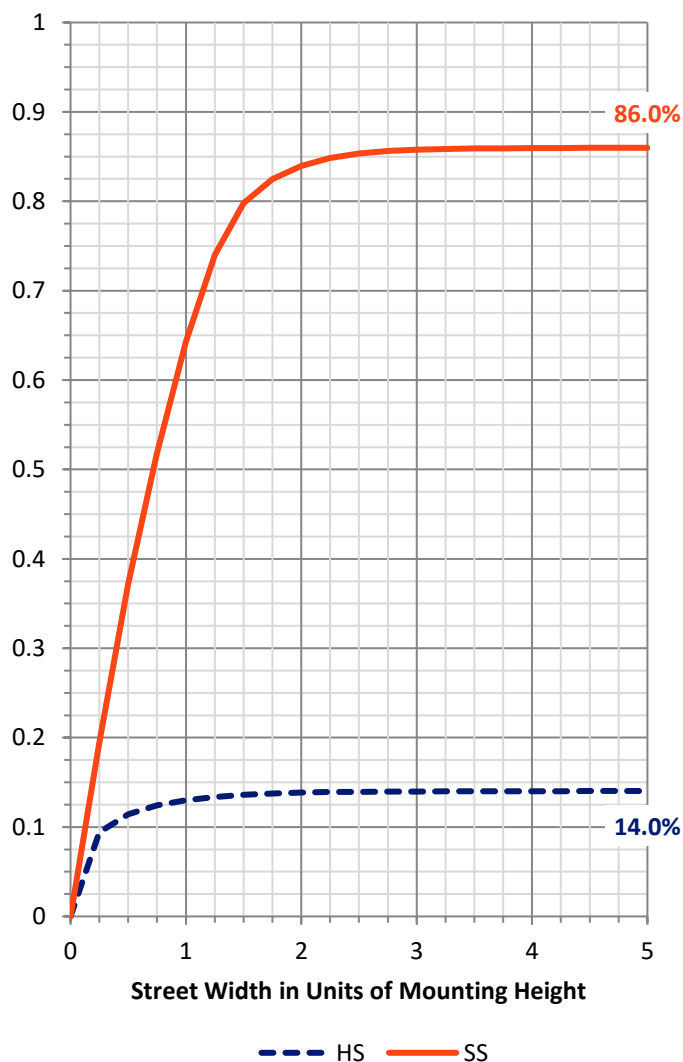
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1197.7	0.0	1197.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7277.3	0.0	7277.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	8475.0	0.0	8475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	3.7
10°-20°	667.0	7.9
20°-30°	883.9	10.4
30°-40°	1284.6	15.2
40°-50°	1904.8	22.5
50°-60°	2381.9	28.1
60°-70°	939.6	11.1
70°-80°	93.5	1.1
80°-90°	7.3	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°	8475.0	100.0
0°-180°	8475.0	100.0

Coefficient of Utilization



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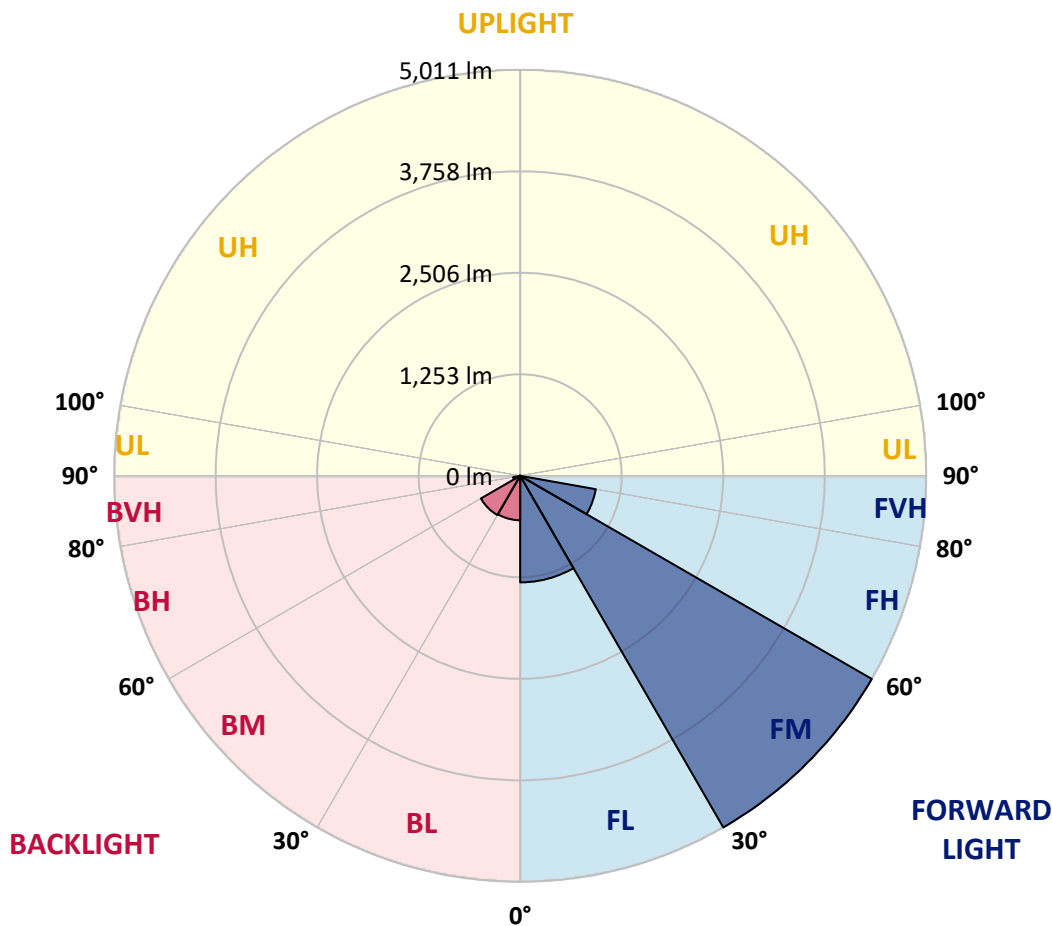
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.6	15.5			
FM (30°-60°)	5011.2	59.1			
FH (60°-80°)	947.2	11.2			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	547.8	6.5	B2/1000		
BM (30°-60°)	560.1	6.6	B1/1000		
BH (60°-80°)	85.9	1.0	B0/110		G0/110
BVH (80°-90°)	4.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4
2.5°	3950.8	3909.9	3913.0	3898.8	3879.9	3894.1	3832.6	3846.8	3845.2	3761.7	3706.6
5°	3851.5	3895.7	3850.0	3887.8	3851.5	3890.9	3853.1	3824.8	3779.1	3717.6	3615.2
7.5°	3682.9	3640.4	3653.0	3700.3	3708.1	3796.4	3749.1	3785.4	3766.4	3645.1	3504.8
10°	3344.1	3334.6	3397.7	3460.7	3537.9	3632.5	3668.7	3648.3	3634.1	3588.4	3400.8
12.5°	3084.1	3110.9	3109.3	3213.3	3344.1	3397.7	3492.2	3489.1	3567.9	3482.8	3303.1
15°	2836.7	2850.8	2917.0	2981.6	3126.6	3279.5	3396.1	3411.9	3506.4	3446.5	3227.5
17.5°	2685.4	2664.9	2716.9	2794.1	2942.2	3142.4	3271.6	3309.4	3438.7	3426.0	3140.8
20°	2535.7	2535.7	2578.2	2669.6	2805.1	3030.5	3260.6	3249.5	3438.7	3402.4	3047.8
22.5°	2485.2	2510.4	2521.5	2590.8	2751.6	2945.4	3213.3	3233.8	3465.4	3391.4	3006.9
25°	2554.6	2521.5	2524.6	2579.8	2731.1	2904.4	3178.6	3224.3	3514.3	3446.5	2973.8
27.5°	2565.6	2598.7	2608.1	2646.0	2746.8	2917.0	3265.3	3358.3	3635.6	3575.8	2983.2
30°	2661.7	2694.8	2693.2	2757.9	2827.2	3019.5	3459.1	3478.1	3886.2	3738.1	3041.5
32.5°	2778.3	2813.0	2824.0	2899.7	2954.8	3207.0	3695.5	3744.4	4127.3	3993.4	3194.4
35°	2923.3	2910.7	2961.2	3036.8	3155.0	3481.2	3983.9	4065.9	4387.4	4324.3	3352.0
37.5°	3104.6	3088.8	3137.7	3260.6	3421.3	3805.8	4250.3	4303.8	4576.5	4631.6	3643.5
40°	3232.2	3238.5	3386.6	3552.1	3722.3	4114.7	4418.9	4470.9	4708.8	4918.4	3864.2
42.5°	3445.0	3484.4	3662.4	3864.2	4042.2	4346.4	4556.0	4606.4	4770.3	5148.5	4162.0
45°	3753.8	3736.5	3933.5	4158.8	4355.8	4587.5	4718.3	4701.0	4806.6	5377.0	4349.5
47.5°	4151.0	4154.1	4284.9	4477.2	4682.1	4797.1	4899.5	4838.1	4882.2	5618.2	4600.1
50°	4422.0	4445.7	4551.3	4748.2	4850.7	5027.2	5158.0	5120.2	5106.0	5763.1	4757.7
52.5°	4491.4	4562.3	4619.0	4864.9	5104.4	5383.3	5550.4	5630.8	5378.6	5812.0	4957.8
55°	3968.2	4031.2	4231.3	4568.6	5200.5	5947.5	6177.6	6179.2	5734.8	6029.5	5098.1
57.5°	3172.3	3044.7	3167.6	3525.3	4396.8	5923.9	6483.3	6409.3	5912.8	5901.8	4976.8
60°	2193.7	2162.2	2170.0	2311.9	3043.1	4712.0	5777.3	5873.4	5444.8	5115.4	3939.8
62.5°	1738.2	1711.4	1676.8	1661.0	1889.5	2935.9	4075.3	4210.9	3807.4	3317.3	2335.5
65°	1361.6	1345.8	1350.6	1413.6	1412.0	1665.7	2228.3	2173.2	1739.8	1285.9	734.4
67.5°	918.8	942.4	961.3	1152.0	1249.7	1159.9	1076.4	1044.8	565.8	238.0	162.3
70°	516.9	520.1	540.5	720.2	948.7	899.8	742.3	742.3	282.1	86.7	93.0
72.5°	282.1	272.6	253.7	310.5	422.3	428.6	330.9	288.4	83.5	56.7	52.0
75°	137.1	135.5	116.6	96.1	91.4	75.6	58.3	53.6	37.8	36.2	31.5
77.5°	28.4	26.8	14.2	14.2	15.8	17.3	22.1	22.1	26.8	26.8	22.1
80°	0.0	0.0	1.6	6.3	11.0	15.8	18.9	18.9	22.1	22.1	17.3
82.5°	0.0	0.0	1.6	4.7	9.5	14.2	17.3	18.9	22.1	23.6	18.9
85°	0.0	0.0	0.0	3.2	7.9	11.0	9.5	9.5	7.9	6.3	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4
2.5°	3678.2	3675.0	3602.6	3561.6	3487.5	3422.9	3370.9	3333.1	3333.1	3309.4	3287.4
5°	3574.2	3547.4	3393.0	3293.7	3153.4	3049.4	2978.5	2923.3	2836.7	2860.3	2767.3
7.5°	3445.0	3377.2	3172.3	3021.0	2827.2	2679.1	2527.8	2393.8	2264.6	2206.3	2237.8
10°	3306.3	3188.1	2912.3	2672.8	2431.6	2160.6	1984.1	1769.8	1637.4	1629.5	1594.8
12.5°	3159.7	3025.8	2690.1	2359.2	2042.4	1716.2	1446.7	1246.6	1156.7	1057.4	1076.4
15°	3049.4	2850.8	2442.7	2044.0	1623.2	1293.8	1022.8	868.3	783.2	759.6	751.7
17.5°	2929.6	2716.9	2190.5	1708.3	1273.3	931.4	736.0	661.9	628.8	628.8	624.1
20°	2805.1	2565.6	1940.0	1396.3	955.0	695.0	589.4	565.8	564.2	562.6	562.6
22.5°	2723.2	2392.2	1713.0	1109.4	720.2	556.3	512.2	502.7	509.0	527.9	527.9
25°	2636.5	2225.2	1462.5	855.7	557.9	477.5	452.3	458.6	474.4	491.7	485.4
27.5°	2548.3	2116.5	1226.1	671.3	457.0	417.6	408.2	422.3	439.7	455.4	450.7
30°	2527.8	1999.8	1002.3	509.0	392.4	364.0	370.3	382.9	400.3	406.6	412.9
32.5°	2559.3	1908.4	821.1	417.6	342.0	334.1	334.1	340.4	351.4	365.6	360.9
35°	2649.1	1856.4	649.3	362.5	313.6	305.7	304.2	310.5	316.8	321.5	316.8
37.5°	2786.2	1815.5	531.1	321.5	294.7	282.1	278.9	277.4	283.7	285.2	288.4
40°	2961.2	1837.5	450.7	296.3	275.8	261.6	252.1	252.1	252.1	256.9	258.5
42.5°	3150.3	1867.5	389.3	282.1	258.5	241.1	231.7	228.5	231.7	238.0	236.4
45°	3348.8	1925.8	349.9	260.0	242.7	220.6	208.0	204.9	212.7	225.4	223.8
47.5°	3534.8	2009.3	319.9	245.8	226.9	206.4	190.7	187.5	201.7	219.1	220.6
50°	3720.7	2154.3	308.9	234.8	215.9	192.3	178.1	174.9	190.7	212.7	217.5
52.5°	3935.1	2310.3	301.0	220.6	203.3	181.2	165.5	162.3	179.7	208.0	209.6
55°	4075.3	2442.7	294.7	195.4	179.7	163.9	151.3	149.7	168.6	193.8	200.1
57.5°	3911.4	2258.3	272.6	170.2	152.9	145.0	134.0	134.0	149.7	173.4	178.1
60°	2965.9	1486.1	193.8	137.1	129.2	124.5	119.8	119.8	132.4	149.7	151.3
62.5°	1736.7	800.6	124.5	110.3	110.3	105.6	97.7	97.7	110.3	119.8	121.3
65°	515.3	256.9	100.9	94.6	93.0	85.1	77.2	75.6	85.1	89.8	88.3
67.5°	148.1	118.2	83.5	78.8	77.2	64.6	59.9	58.3	59.9	56.7	55.2
70°	88.3	80.4	64.6	66.2	58.3	47.3	42.5	41.0	37.8	33.1	29.9
72.5°	48.9	48.9	47.3	50.4	41.0	31.5	26.8	22.1	17.3	14.2	12.6
75°	29.9	31.5	33.1	34.7	26.8	20.5	17.3	11.0	6.3	3.2	3.2
77.5°	20.5	22.1	23.6	25.2	22.1	18.9	14.2	7.9	1.6	0.0	0.0
80°	15.8	17.3	20.5	22.1	23.6	25.2	18.9	7.9	1.6	0.0	0.0
82.5°	17.3	18.9	23.6	22.1	22.1	22.1	17.3	7.9	1.6	0.0	0.0
85°	3.2	4.7	7.9	7.9	11.0	14.2	11.0	3.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)