

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: P527499

Luminaire Tested: **GALN-SA2C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9825 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

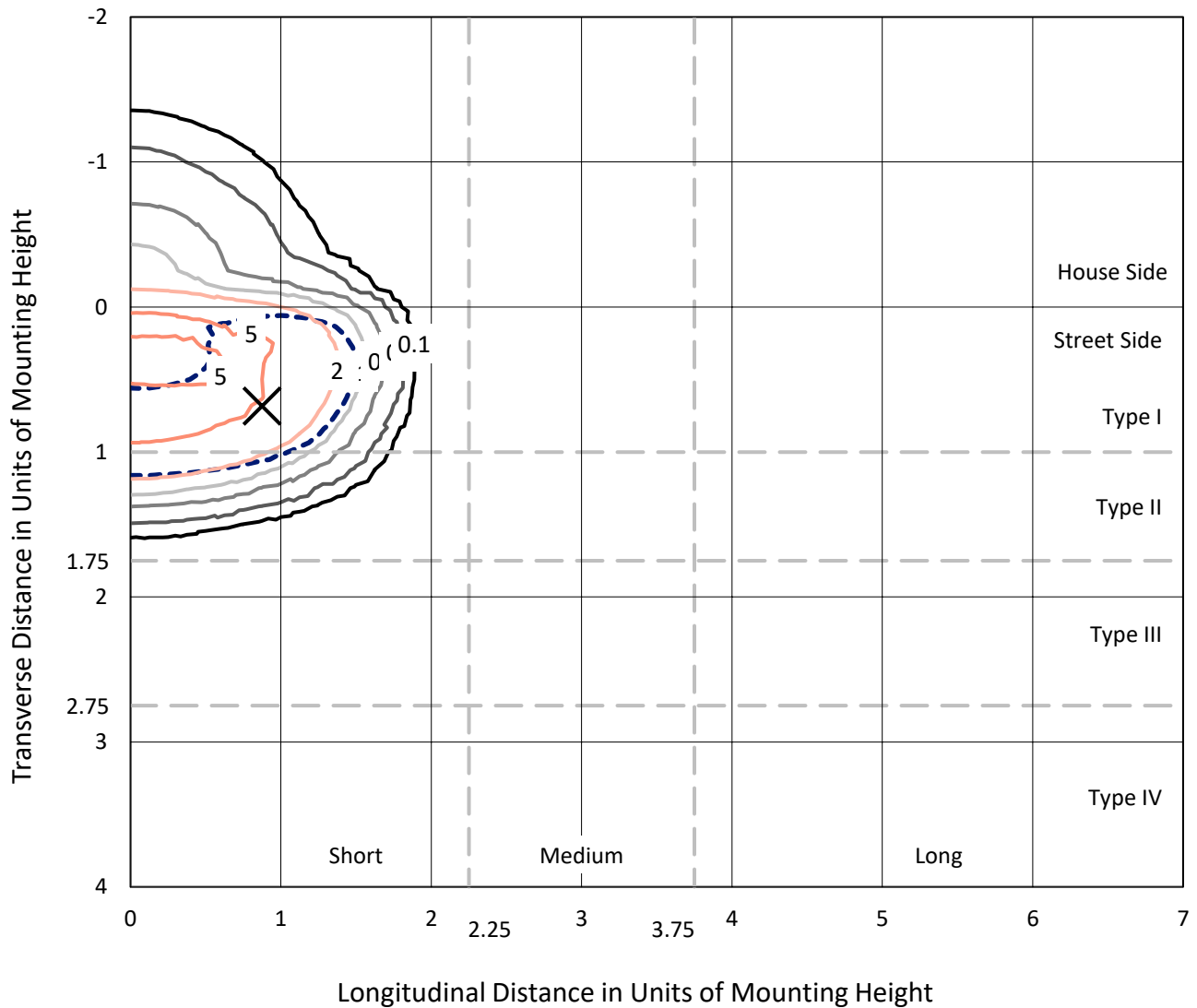
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

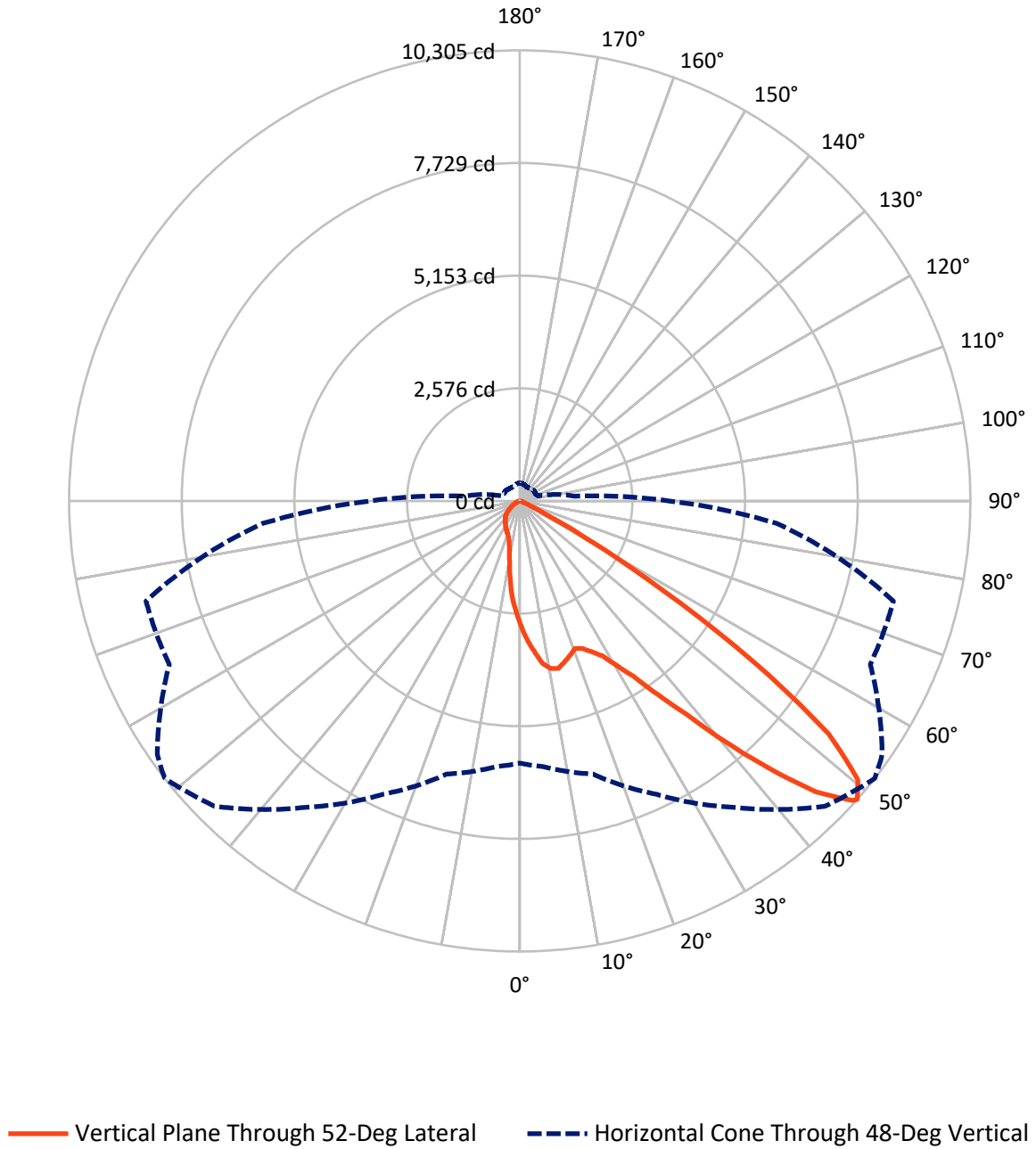
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.3	0.0	1196.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8628.7	0.0	8628.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	9825.0	0.0	9825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	2.6
10°-20°	678.7	6.9
20°-30°	1158.8	11.8
30°-40°	2133.9	21.7
40°-50°	3313.9	33.7
50°-60°	1994.4	20.3
60°-70°	230.7	2.3
70°-80°	44.7	0.5
80°-90°	10.3	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°	9825.0	100.0
0°-180°	9825.0	100.0

Coefficient of Utilization

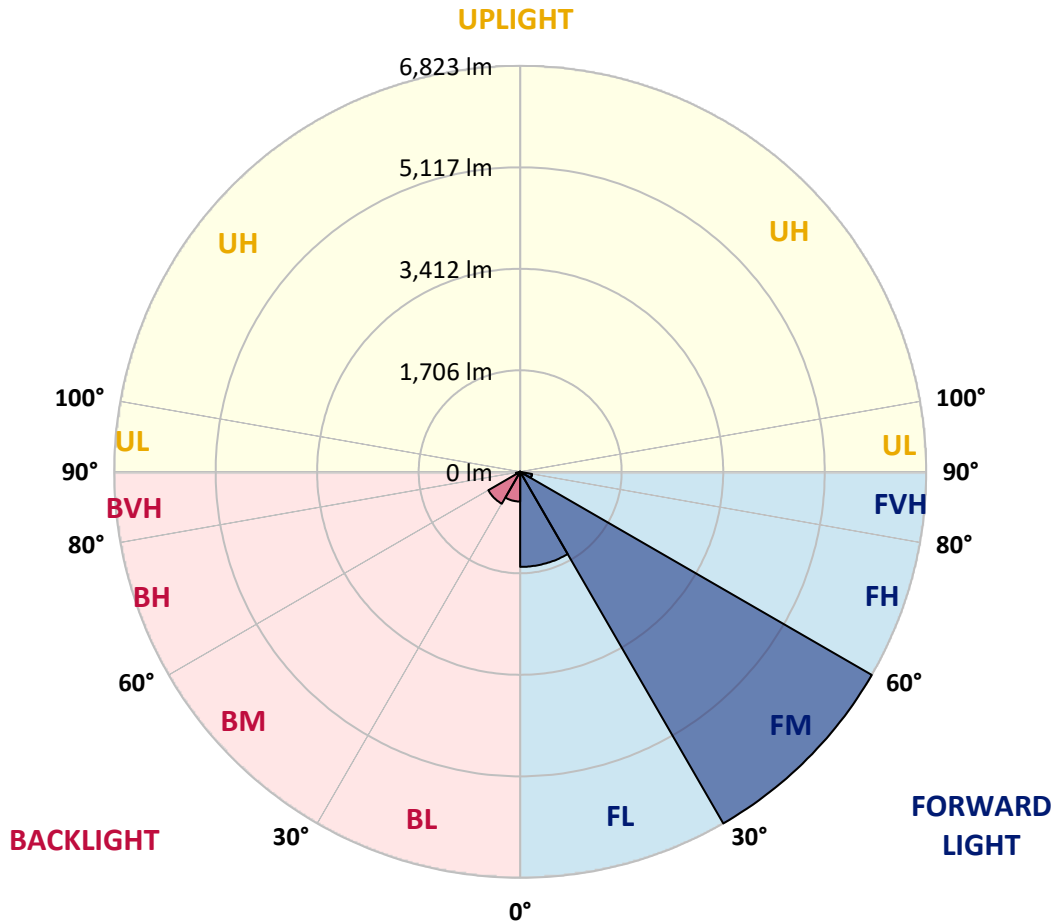


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.4	16.3			
FM (30°-60°)	6823.3	69.4			
FH (60°-80°)	203.1	2.1			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	499.7	5.1	B1/500		
BM (30°-60°)	618.9	6.3	B1/1000		
BH (60°-80°)	72.2	0.7	B0/110		G0/110
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	3438.8	3360.1	3367.2	3315.7	3285.6	3236.9	3171.0	3158.1	3086.5	2989.1	2890.3
5°	3748.2	3729.6	3753.9	3679.5	3682.3	3602.1	3447.4	3450.3	3285.6	3126.6	2973.4
7.5°	3768.3	3725.3	3749.6	3815.5	3854.2	3839.9	3752.5	3676.6	3520.5	3287.0	3063.6
10°	3374.4	3456.0	3481.8	3590.7	3745.3	3908.6	3898.6	3902.9	3772.6	3467.5	3140.9
12.5°	3138.1	3083.6	3171.0	3236.9	3470.4	3786.9	3931.5	3963.0	3973.1	3642.2	3218.3
15°	3030.7	3030.7	3045.0	3063.6	3232.6	3524.8	3819.8	3911.5	4127.8	3871.4	3340.0
17.5°	3098.0	3095.1	3115.2	3076.5	3139.5	3364.4	3716.7	3821.3	4301.1	4096.2	3436.0
20°	3302.8	3312.8	3299.9	3188.2	3192.5	3361.5	3602.1	3766.8	4418.5	4291.0	3563.5
22.5°	3587.8	3593.5	3520.5	3398.7	3362.9	3446.0	3668.0	3794.0	4513.0	4524.5	3602.1
25°	3917.2	3894.3	3880.0	3708.1	3599.3	3670.9	3817.0	3890.0	4571.8	4725.0	3712.4
27.5°	4374.1	4328.3	4240.9	4087.7	4007.4	3905.8	4010.3	4130.6	4739.3	5005.7	3832.7
30°	5048.7	5008.6	4838.2	4640.5	4430.0	4329.7	4362.6	4428.5	5041.5	5330.9	3991.7
32.5°	6064.2	5979.7	5733.3	5356.6	5070.2	4793.8	4785.2	4855.3	5312.2	5780.6	4180.8
35°	7182.8	7157.0	6794.6	6406.5	5852.2	5425.4	5432.5	5469.8	5830.7	6370.7	4428.5
37.5°	7926.1	8067.9	7837.3	7420.5	6955.0	6344.9	6190.2	6203.1	6542.5	7069.6	4875.4
40°	8500.4	8380.1	8407.3	8309.9	7992.0	7576.6	7234.3	7167.0	7366.1	7843.0	5319.4
42.5°	8249.8	8255.5	8423.1	8653.7	8732.5	8702.4	8352.9	8225.4	8070.8	8476.1	5741.9
45°	7542.3	7689.8	7907.5	8517.6	9053.3	9556.0	9487.3	9275.3	8557.7	8977.4	5985.4
47.5°	6413.6	6407.9	6764.5	7558.0	8748.2	9925.5	10237.8	10088.8	8902.9	8921.5	5935.3
48°	5996.9	6100.0	6468.1	7401.9	8554.9	9871.1	10305.1	10117.4	8844.2	8847.0	5892.3
50°	4432.8	4414.2	4872.5	6018.3	7641.1	9275.3	10021.5	10167.6	8842.7	8470.4	5591.5
52.5°	2341.7	2421.9	2755.7	3784.0	5402.5	7591.0	8839.9	9067.6	8530.5	7854.5	5159.0
55°	995.4	899.5	1155.8	1708.7	3039.2	5071.6	6485.2	6992.3	7212.8	6950.7	4513.0
57.5°	355.2	388.1	446.9	643.1	1277.6	2775.7	3867.1	4261.0	4997.1	5100.3	3075.1
60°	227.7	232.0	250.6	295.0	479.8	1069.9	1834.7	2148.4	2482.1	2562.3	1435.1
62.5°	176.2	177.6	186.2	193.4	227.7	415.4	688.9	816.4	847.9	729.0	376.7
65°	147.5	149.0	151.8	151.8	161.8	194.8	240.6	265.0	257.8	254.9	213.4
67.5°	113.1	116.0	121.7	121.7	127.5	118.9	133.2	141.8	160.4	194.8	181.9
70°	88.8	90.2	94.5	97.4	97.4	85.9	96.0	104.6	117.4	144.7	143.2
72.5°	68.7	71.6	74.5	74.5	70.2	58.7	68.7	75.9	84.5	100.3	97.4
75°	53.0	53.0	54.4	44.4	34.4	30.1	41.5	50.1	63.0	65.9	54.4
77.5°	14.3	15.8	14.3	12.9	14.3	21.5	27.2	31.5	40.1	40.1	35.8
80°	0.0	1.4	4.3	8.6	14.3	20.1	24.3	27.2	31.5	34.4	32.9
82.5°	0.0	1.4	4.3	8.6	12.9	15.8	21.5	22.9	25.8	30.1	30.1
85°	0.0	1.4	2.9	5.7	8.6	10.0	10.0	8.6	8.6	7.2	5.7
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3
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°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2851.6	2807.2	2739.9	2633.9	2532.2	2466.3	2403.3	2333.1	2294.5	2291.6	2270.1
5°	2886.0	2785.7	2625.3	2443.4	2248.6	2081.1	1912.1	1801.8	1703.0	1648.5	1638.5
7.5°	2904.6	2774.3	2515.0	2210.0	1877.7	1604.1	1415.1	1276.1	1221.7	1181.6	1180.2
10°	2943.3	2754.2	2350.3	1900.6	1489.5	1213.1	1082.8	1019.8	989.7	978.2	961.0
12.5°	2971.9	2717.0	2181.3	1582.6	1177.3	1005.4	948.2	933.8	935.3	941.0	933.8
15°	3012.0	2684.0	1953.6	1299.1	988.3	905.2	905.2	908.0	928.1	931.0	929.5
17.5°	3009.2	2619.6	1718.7	1069.9	873.7	862.2	866.5	893.7	906.6	910.9	900.9
20°	3043.5	2559.4	1476.7	913.8	809.2	826.4	855.1	862.2	878.0	880.8	869.4
22.5°	3033.5	2409.1	1251.8	790.6	760.5	793.5	822.1	830.7	826.4	817.8	816.4
25°	3014.9	2280.1	1045.5	709.0	724.7	760.5	787.7	772.0	763.4	764.8	766.3
27.5°	2982.0	2116.9	875.1	651.7	676.0	729.0	727.6	721.9	730.4	723.3	730.4
30°	2976.2	1953.6	734.7	600.1	640.2	678.9	681.8	691.8	701.8	688.9	701.8
32.5°	2984.8	1774.6	634.5	568.6	618.7	620.2	651.7	661.7	654.5	625.9	628.8
35°	3050.7	1637.1	561.4	551.4	584.4	585.8	615.9	603.0	571.5	554.3	564.3
37.5°	3189.6	1522.5	527.1	535.7	538.5	557.1	558.6	532.8	535.7	534.2	540.0
40°	3367.2	1435.1	502.7	521.3	518.5	531.4	479.8	494.1	507.0	511.3	514.2
42.5°	3489.0	1372.1	487.0	498.4	492.7	469.8	441.1	455.5	465.5	481.2	484.1
45°	3543.4	1322.0	468.3	458.3	458.3	416.8	405.3	408.2	431.1	448.3	445.4
47.5°	3454.6	1273.3	435.4	405.3	415.4	381.0	368.1	368.1	392.4	413.9	409.6
48°	3420.2	1253.2	436.8	393.9	401.0	375.3	362.4	359.5	386.7	406.8	406.8
50°	3249.8	1178.7	399.6	362.4	348.0	345.2	336.6	339.4	356.6	375.3	375.3
52.5°	2917.5	1018.3	338.0	310.8	285.0	302.2	306.5	300.8	309.4	326.6	325.1
55°	2434.8	782.0	270.7	257.8	237.8	256.4	265.0	257.8	249.2	262.1	262.1
57.5°	1559.7	421.1	216.3	219.1	199.1	217.7	224.9	207.7	191.9	201.9	200.5
60°	703.2	252.1	177.6	173.3	160.4	181.9	193.4	173.3	151.8	159.0	166.1
62.5°	263.5	179.0	134.6	131.8	128.9	149.0	154.7	138.9	117.4	121.7	123.2
65°	193.4	157.5	107.4	97.4	103.1	117.4	114.6	98.8	84.5	84.5	87.4
67.5°	164.7	137.5	87.4	75.9	75.9	77.3	71.6	63.0	58.7	61.6	64.5
70°	128.9	108.9	68.7	58.7	53.0	47.3	41.5	40.1	35.8	40.1	38.7
72.5°	83.1	73.0	53.0	44.4	40.1	32.9	27.2	25.8	21.5	20.1	20.1
75°	44.4	44.4	41.5	35.8	31.5	25.8	21.5	17.2	11.5	8.6	8.6
77.5°	31.5	34.4	37.2	34.4	28.6	21.5	17.2	11.5	5.7	2.9	2.9
80°	30.1	34.4	37.2	32.9	28.6	21.5	15.8	8.6	4.3	1.4	1.4
82.5°	27.2	31.5	34.4	30.1	25.8	18.6	14.3	8.6	4.3	1.4	1.4
85°	5.7	7.2	8.6	8.6	10.0	12.9	10.0	7.2	2.9	1.4	1.4
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	1.4	1.4	1.4
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)