

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: P458809

Luminaire Tested: **GALN-SA3C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 16001 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

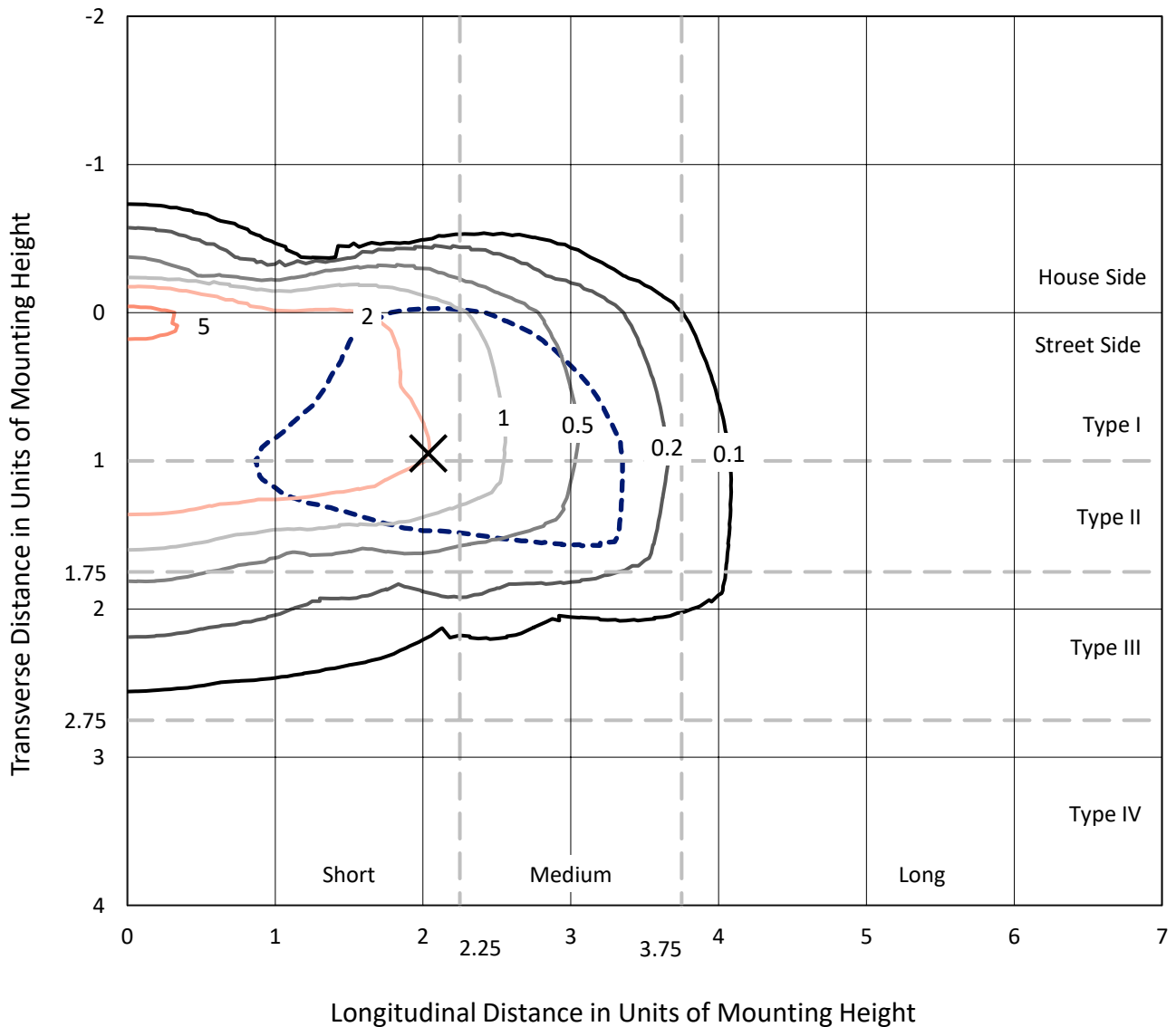
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

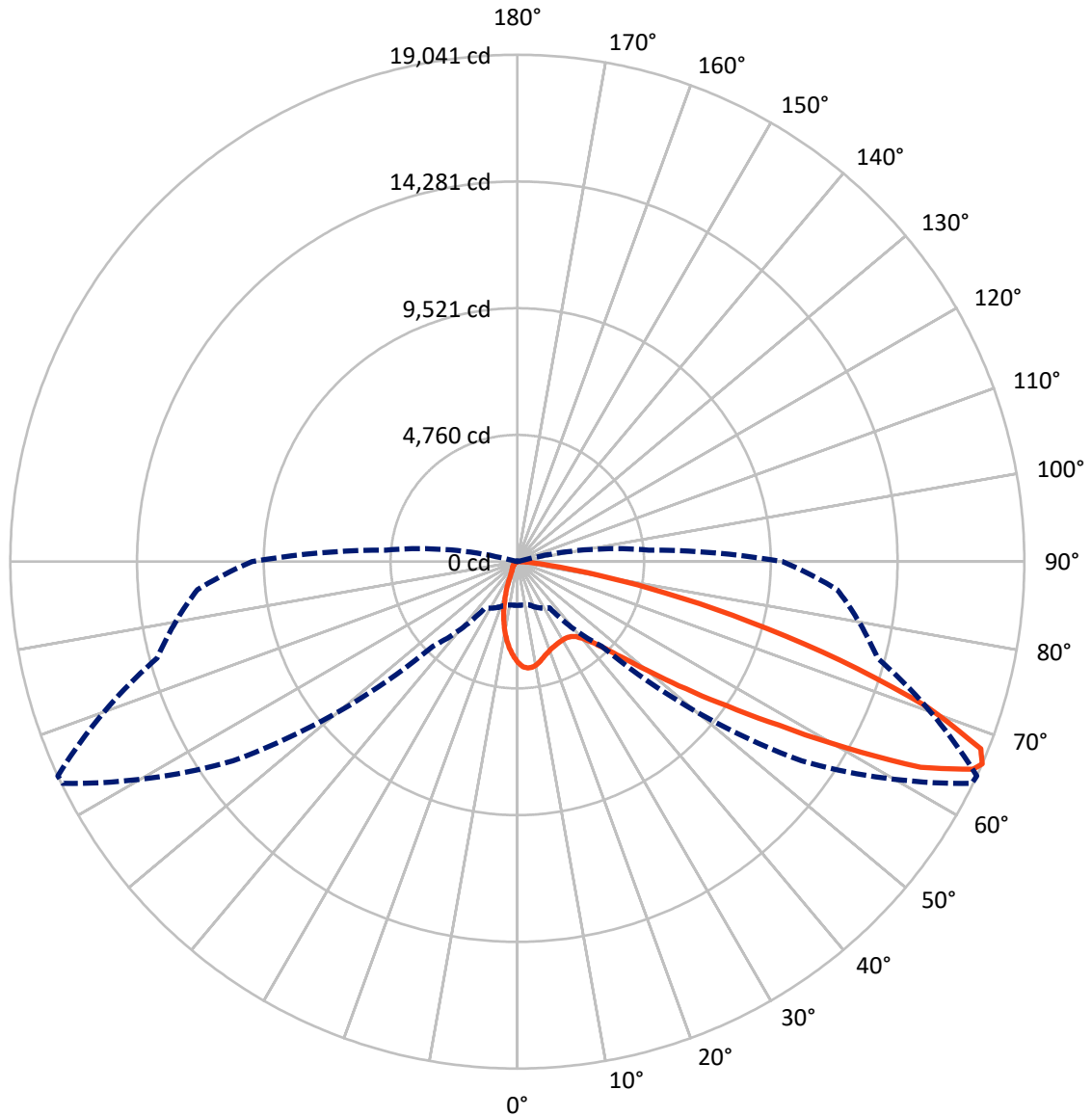
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.7	0.0	1654.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14346.3	0.0	14346.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	16001.0	0.0	16001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.9
10°-20°	676.2	4.2
20°-30°	968.6	6.1
30°-40°	1414.7	8.8
40°-50°	2372.2	14.8
50°-60°	3958.9	24.7
60°-70°	4202.2	26.3
70°-80°	1903.2	11.9
80°-90°	194.7	1.2
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°	16001.0	100.0
0°-180°	16001.0	100.0

Coefficient of Utilization



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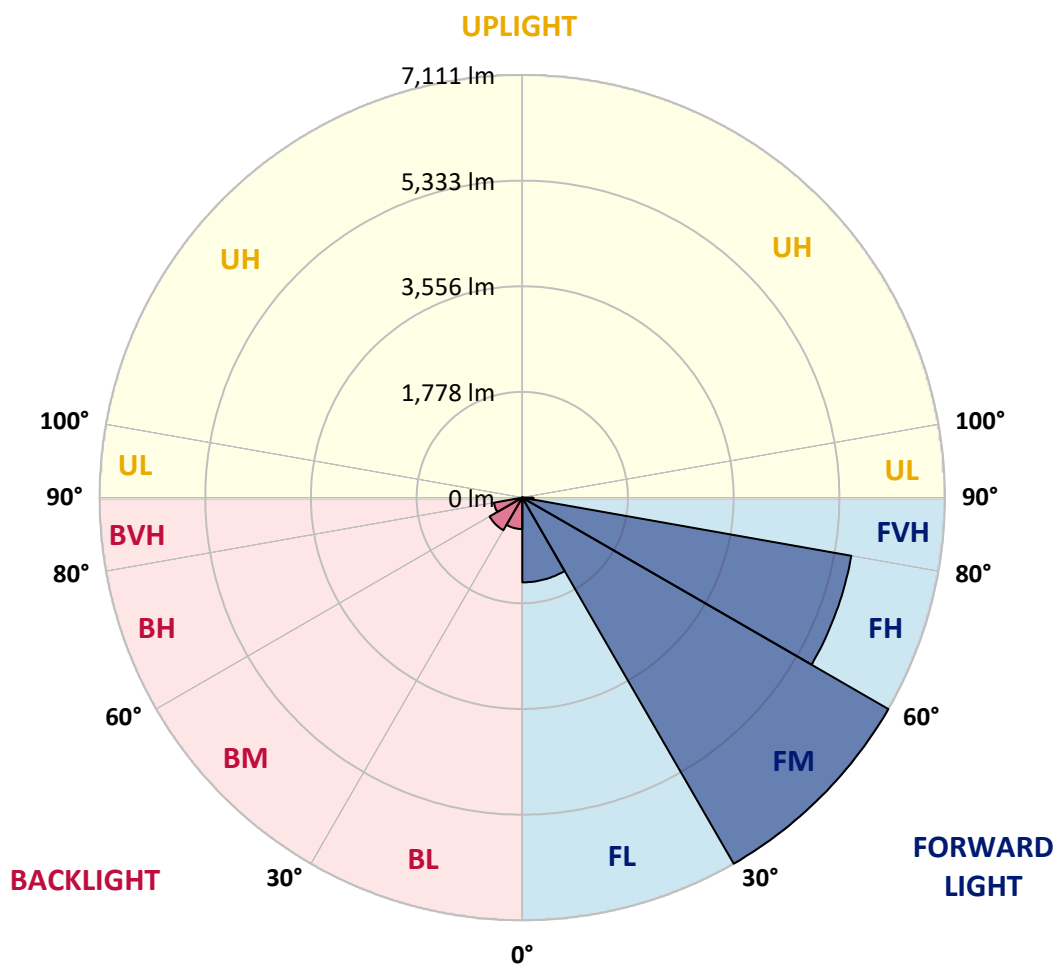
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.7	8.9			
FM (30°-60°)	7111.2	44.4			
FH (60°-80°)	5620.8	35.1			G3/7500
FVH (80°-90°)	188.5	1.2			G2/225
BL (0°-30°)	529.3	3.3	B2/1000		
BM (30°-60°)	634.6	4.0	B1/1000		
BH (60°-80°)	484.6	3.0	B1/500		G1/500
BVH (80°-90°)	6.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3998.7	4003.0	4008.4	4016.0	4021.4	4005.2	3982.5	3956.5	3951.1	3896.0	3829.0
5°	3784.7	3791.2	3838.7	3864.7	3923.0	3976.0	4009.5	4013.8	4011.7	3959.8	3852.8
7.5°	3479.9	3498.3	3544.8	3590.2	3699.3	3799.8	3918.7	4001.9	4007.3	3993.3	3860.4
10°	3232.4	3244.3	3268.1	3357.8	3448.6	3602.1	3768.5	3925.2	3938.2	3994.4	3853.9
12.5°	3039.0	3056.3	3085.5	3154.6	3263.8	3408.6	3597.7	3808.5	3835.5	3973.8	3835.5
15°	2903.9	2912.6	2941.7	3009.8	3115.7	3249.7	3441.0	3686.4	3710.1	3946.8	3832.3
17.5°	2840.1	2849.9	2870.4	2924.4	3012.0	3136.3	3323.2	3588.0	3618.3	3929.5	3844.1
20°	2857.4	2866.1	2867.2	2895.3	2954.7	3059.5	3236.8	3496.1	3535.1	3918.7	3863.6
22.5°	2955.8	2956.9	2943.9	2930.9	2951.5	3027.1	3183.8	3437.8	3477.8	3916.5	3886.3
25°	3102.8	3106.0	3084.4	3039.0	2997.9	3036.8	3171.9	3400.0	3435.6	3911.1	3900.3
27.5°	3305.9	3304.9	3298.4	3222.7	3106.0	3080.1	3181.7	3379.4	3409.7	3896.0	3905.7
30°	3590.2	3581.5	3567.5	3482.1	3303.8	3184.9	3222.7	3366.5	3394.6	3874.4	3891.7
32.5°	3870.1	3902.5	3900.3	3819.3	3596.7	3371.9	3308.1	3383.8	3404.3	3860.4	3871.2
35°	4196.5	4195.4	4278.6	4248.3	3987.9	3610.7	3454.0	3441.0	3457.2	3870.1	3861.4
37.5°	4499.1	4527.2	4656.8	4688.2	4450.4	3947.9	3660.4	3564.2	3569.6	3936.0	3885.2
40°	4876.2	4930.3	5123.7	5228.5	5018.9	4448.3	3965.2	3790.1	3791.2	4098.1	3974.9
42.5°	5362.6	5447.9	5628.4	5803.5	5691.1	5040.5	4422.3	4147.8	4145.7	4383.4	4180.2
45°	5953.7	6013.2	6218.5	6496.2	6424.9	5867.3	5088.1	4702.2	4674.1	4851.4	4544.5
47.5°	6463.8	6544.9	6753.5	7070.1	7394.3	6876.7	5883.5	5464.1	5445.8	5596.0	5169.1
50°	6686.4	6757.8	6977.2	7421.3	8207.0	8201.6	7067.9	6576.2	6544.9	6625.9	6135.3
52.5°	6442.2	6509.2	6730.8	7284.1	8589.6	9816.2	8784.1	7971.4	7933.6	7829.9	7289.5
55°	5605.7	5660.8	5988.3	6623.8	8442.6	10892.6	11148.8	9695.2	9548.2	9145.1	8596.1
57.5°	4463.4	4435.3	4638.5	5376.6	7580.2	11253.6	13576.1	11842.6	11580.0	10282.0	9701.7
60°	3093.0	3179.5	3261.6	3748.0	5699.7	10627.9	15085.8	14542.2	14196.4	11400.6	10760.8
62.5°	2273.8	2331.1	2385.2	2610.0	3583.7	8485.9	15352.8	17315.4	17008.5	12588.3	11771.3
65°	1798.3	1802.7	1824.3	2045.8	2361.4	5518.2	14070.0	18879.2	18800.3	13731.7	12180.9
66°	1638.4	1639.5	1673.0	1910.7	2119.3	4493.7	13042.2	18998.1	19041.3	14006.2	12060.9
67.5°	1432.0	1427.6	1476.3	1717.3	1930.2	3240.0	11202.8	18516.1	18772.2	14216.9	11629.7
70°	1109.9	1104.5	1163.9	1440.6	1777.8	2161.5	7446.2	15898.6	16311.4	13785.7	10289.6
72.5°	739.2	743.5	845.1	1136.9	1696.7	1903.2	4479.6	12094.4	12678.0	11384.4	8094.6
75°	431.2	438.8	554.4	845.1	1473.0	1814.5	2535.4	8624.2	8997.0	7861.2	5042.7
77.5°	225.9	229.1	310.2	557.7	1129.4	1684.9	1689.2	5509.5	5684.6	3820.4	1996.1
80°	120.0	116.7	166.4	336.1	777.0	1479.5	1370.4	2916.9	3032.5	1134.8	504.7
82.5°	45.4	49.7	88.6	220.5	459.3	1062.4	1180.2	1289.3	1249.3	249.6	211.8
85°	8.6	10.8	37.8	130.8	231.3	444.2	870.0	632.2	585.8	94.0	122.1
87.5°	1.1	2.2	10.8	31.3	33.5	150.2	257.2	175.1	151.3	34.6	50.8
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°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3796.6	3767.4	3670.1	3574.0	3475.6	3387.0	3326.5	3228.1	3203.3	3167.6	3147.1
5°	3789.0	3720.9	3534.0	3329.7	3139.5	2934.2	2777.5	2626.2	2545.1	2504.0	2488.9
7.5°	3767.4	3659.3	3367.5	3047.6	2742.9	2436.0	2169.0	1965.8	1835.1	1745.4	1684.9
10°	3724.2	3575.0	3174.1	2734.2	2273.8	1868.6	1530.3	1273.1	1074.2	1011.6	1013.7
12.5°	3679.9	3481.0	2957.9	2386.2	1815.6	1304.4	945.6	742.5	647.4	616.0	609.5
15°	3638.8	3391.3	2746.1	2049.1	1352.0	845.1	609.5	538.2	512.3	506.9	505.8
17.5°	3617.2	3308.1	2520.3	1663.2	943.5	573.9	488.5	469.0	461.5	456.1	453.9
20°	3598.8	3235.7	2304.1	1302.3	645.2	470.1	437.7	419.3	406.4	400.9	397.7
22.5°	3585.8	3161.1	2080.4	1008.3	493.9	417.2	388.0	364.2	345.8	339.3	335.0
25°	3566.4	3079.0	1854.5	737.1	416.1	370.7	337.2	309.1	285.3	273.4	271.3
27.5°	3538.3	2986.0	1607.0	545.8	371.8	329.6	288.6	254.0	230.2	217.2	218.3
30°	3492.9	2888.8	1359.6	433.4	336.1	287.5	243.2	209.7	187.0	177.2	176.2
32.5°	3438.9	2771.0	1132.6	371.8	303.7	249.6	203.2	174.0	156.7	149.1	148.1
35°	3388.1	2652.1	901.3	333.9	270.2	215.1	170.8	145.9	132.9	126.4	127.5
37.5°	3360.0	2546.2	702.5	303.7	243.2	184.8	147.0	125.4	113.5	108.1	107.0
40°	3378.3	2459.7	558.7	276.7	212.9	158.9	126.4	108.1	96.2	88.6	88.6
42.5°	3464.8	2421.9	450.7	250.7	184.8	137.3	110.2	92.9	80.0	72.4	73.5
45°	3728.5	2461.9	377.2	227.0	158.9	118.9	95.1	76.7	64.8	59.4	58.4
47.5°	4166.2	2612.1	326.4	202.1	136.2	101.6	80.0	63.8	51.9	47.6	46.5
50°	4931.4	2922.3	288.6	177.2	115.6	86.5	65.9	50.8	41.1	36.7	36.7
52.5°	5984.0	3598.8	261.5	149.1	97.3	73.5	54.0	41.1	32.4	29.2	28.1
55°	7084.2	4312.1	247.5	125.4	81.1	60.5	43.2	32.4	24.9	21.6	20.5
57.5°	8142.2	4871.9	231.3	101.6	64.8	46.5	33.5	24.9	17.3	15.1	14.0
60°	9157.0	5324.7	196.7	81.1	50.8	33.5	24.9	17.3	11.9	9.7	9.7
62.5°	10064.8	5588.4	154.5	64.8	38.9	23.8	16.2	13.0	8.6	6.5	6.5
65°	10170.7	5245.8	116.7	49.7	28.1	15.1	9.7	9.7	6.5	4.3	4.3
66°	9957.8	4955.1	102.7	45.4	24.9	13.0	8.6	7.6	5.4	3.2	3.2
67.5°	9482.3	4459.1	88.6	38.9	20.5	9.7	6.5	6.5	4.3	2.2	2.2
70°	8193.0	3642.0	70.2	29.2	15.1	7.6	4.3	4.3	3.2	2.2	2.2
72.5°	6244.4	2719.1	57.3	21.6	10.8	5.4	3.2	3.2	3.2	2.2	2.2
75°	3766.3	1464.4	44.3	16.2	9.7	4.3	2.2	3.2	4.3	3.2	2.2
77.5°	1387.7	498.2	34.6	13.0	7.6	4.3	2.2	2.2	4.3	3.2	3.2
80°	340.4	129.7	24.9	10.8	7.6	4.3	2.2	2.2	4.3	4.3	4.3
82.5°	157.8	55.1	17.3	9.7	7.6	4.3	2.2	2.2	3.2	4.3	4.3
85°	90.8	25.9	14.0	10.8	7.6	4.3	2.2	2.2	3.2	4.3	4.3
87.5°	36.7	13.0	13.0	10.8	8.6	5.4	2.2	2.2	2.2	3.2	3.2
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)