

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: P459379

Luminaire Tested: **GALN-SA8B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30822 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

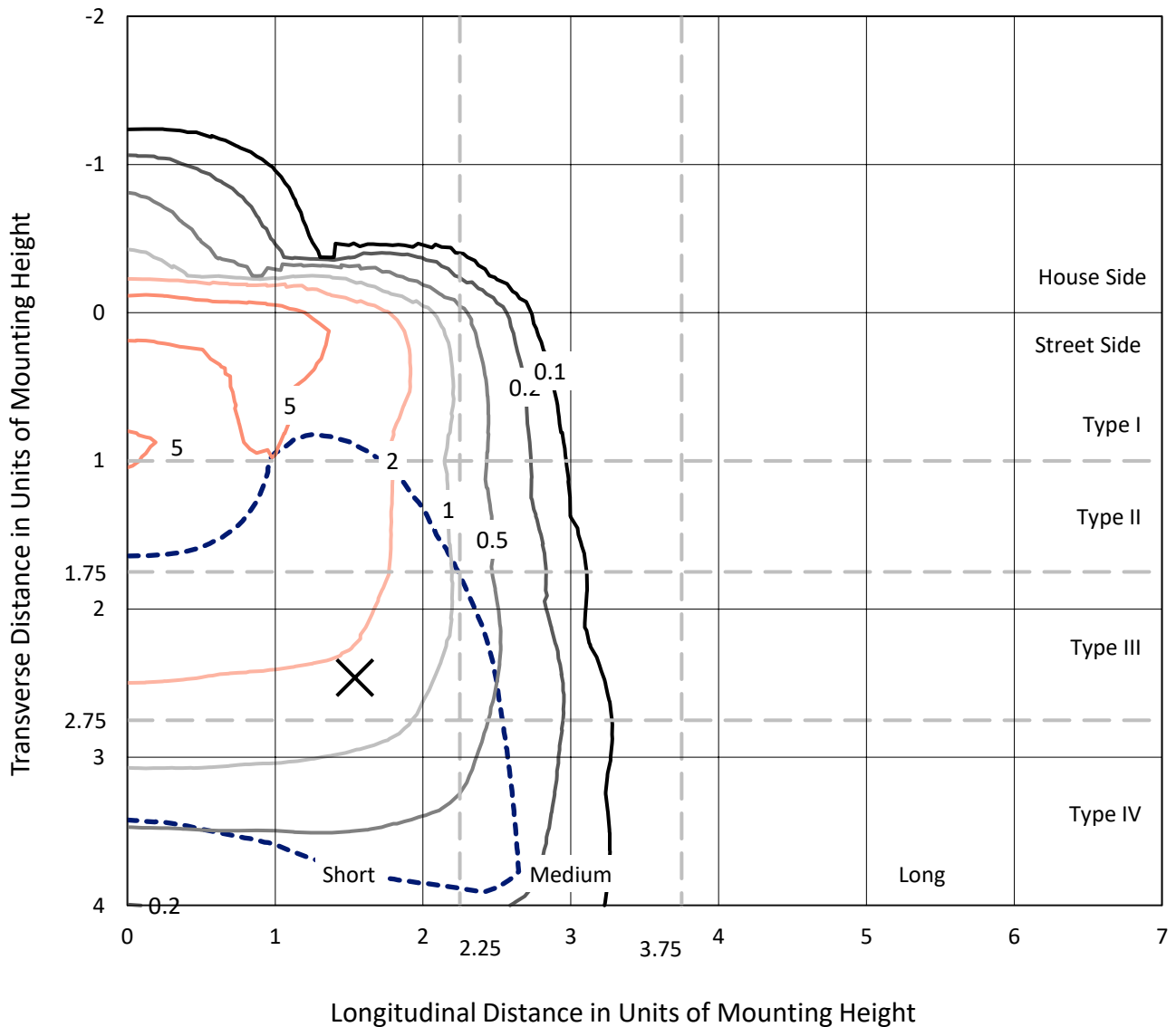
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

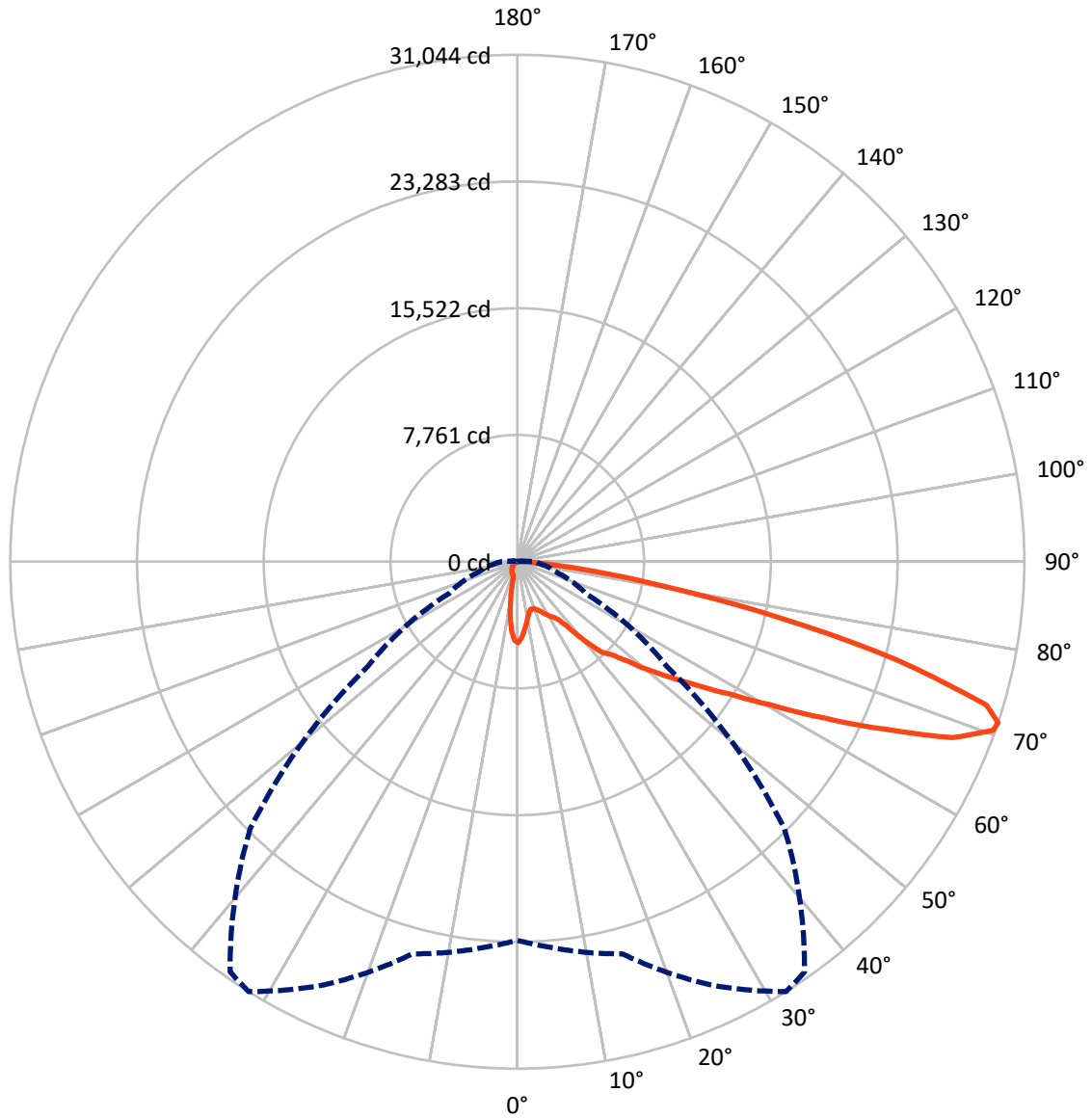
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2581.7	0.0	2581.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	28240.3	0.0	28240.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	30822.0	0.0	30822.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.0	1.3
10°-20°	874.7	2.8
20°-30°	1360.8	4.4
30°-40°	2267.1	7.4
40°-50°	4217.2	13.7
50°-60°	6770.9	22.0
60°-70°	9107.2	29.5
70°-80°	5403.4	17.5
80°-90°	417.7	1.4
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°	30822.0	100.0
0°-180°	30822.0	100.0

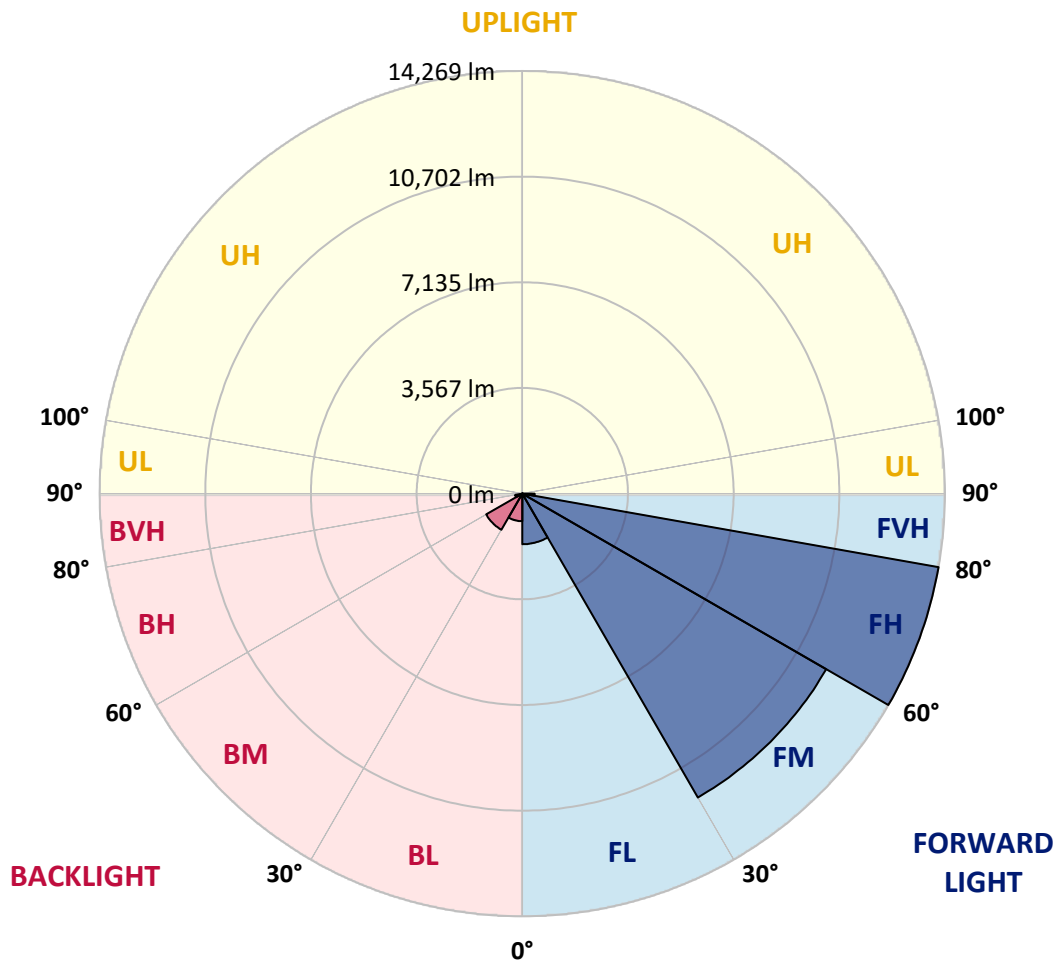


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.4	5.5			
FM (30°-60°)	11846.8	38.4			
FH (60°-80°)	14269.1	46.3			G5
FVH (80°-90°)	416.0	1.3			G3/500
BL (0°-30°)	930.2	3.0	B2/1000		
BM (30°-60°)	1408.4	4.6	B2/2500		
BH (60°-80°)	241.5	0.8	B1/500		G1/500
BVH (80°-90°)	1.6	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7
2.5°	4597.0	4644.4	4637.3	4653.8	4694.0	4710.6	4755.6	4805.2	4873.9	4921.2	4951.9
5°	4116.7	4152.2	4157.0	4239.8	4280.0	4325.0	4457.4	4601.8	4762.7	4890.4	4975.6
7.5°	3603.3	3622.3	3660.1	3769.0	3870.7	3915.6	4116.7	4367.5	4620.7	4859.7	5013.4
10°	3179.8	3201.1	3269.7	3385.7	3480.3	3539.5	3818.6	4133.3	4488.2	4843.1	5067.9
12.5°	2938.5	2950.3	2976.4	3080.5	3201.1	3265.0	3565.5	3925.1	4381.7	4850.2	5160.1
15°	2921.9	2917.2	2886.5	2929.0	3037.9	3104.1	3397.5	3783.1	4287.1	4873.9	5269.0
17.5°	3009.5	2997.7	2924.3	2924.3	3014.2	3068.6	3326.5	3707.4	4239.8	4928.3	5422.8
20°	3144.3	3125.4	3004.8	2995.3	3082.8	3139.6	3369.1	3712.2	4249.2	5030.0	5628.6
22.5°	3314.7	3293.4	3111.2	3116.0	3210.6	3267.4	3492.1	3797.3	4308.4	5155.4	5848.6
25°	3537.1	3513.4	3298.1	3288.7	3388.0	3437.7	3674.3	3948.8	4391.2	5311.6	6137.3
27.5°	3832.8	3783.1	3525.3	3511.1	3617.5	3681.4	3894.3	4152.2	4537.9	5526.9	6525.3
30°	4076.5	4022.1	3776.1	3738.2	3851.8	3901.4	4121.5	4426.7	4826.5	5903.0	7062.4
32.5°	4395.9	4315.5	4026.8	3927.5	4048.1	4112.0	4450.3	4937.7	5254.8	6300.5	7701.2
35°	5115.2	5065.5	4713.0	4365.2	4358.1	4438.5	4935.4	5453.5	5694.8	6920.4	8571.8
37.5°	6144.4	6108.9	5735.1	5269.0	5134.1	5096.2	5524.5	6021.3	6397.5	7772.1	9584.5
40°	7339.2	7256.4	6913.3	6518.2	6343.1	6231.9	6220.1	6866.0	7315.5	8929.1	10639.7
42.5°	8195.6	8044.2	7627.8	7599.4	7561.6	7445.6	7109.7	8101.0	8500.8	10173.6	11768.2
45°	9094.7	8865.2	8245.3	8138.9	8124.7	8117.6	8453.5	9563.2	9792.7	11522.2	12927.5
47.5°	9792.7	9610.5	9101.8	9054.5	9113.6	9274.5	10230.4	11115.2	11067.9	12724.1	13899.9
50°	10722.5	10585.2	10019.8	10109.7	10414.9	10677.5	12234.3	12806.9	12116.0	13670.4	14607.4
52.5°	11820.3	11567.1	11041.9	11285.6	11754.0	12191.7	14361.3	14288.0	12851.8	14382.6	15135.0
55°	12771.4	12591.6	12411.8	12664.9	13365.2	13911.8	16282.4	15397.6	13386.5	14955.2	15366.8
57.5°	14380.2	14337.6	14153.1	14411.0	15260.4	15828.2	18002.5	16258.8	13729.6	15253.3	15094.7
60°	16760.4	16691.8	16348.7	16677.6	17784.8	18676.8	19587.7	17032.5	13807.7	15137.3	14311.6
62.5°	19623.2	19388.9	19095.6	19580.6	21099.5	21492.3	21080.6	17491.4	13516.7	14214.6	12423.6
65°	22296.7	22055.4	22062.5	23084.5	24738.3	25005.7	22821.9	17422.8	12664.9	11903.1	9163.3
67.5°	24343.2	24303.0	24591.7	26586.1	28748.6	28564.1	24378.7	16396.0	10140.4	7715.4	4869.1
70°	24447.3	24525.4	25353.5	28720.2	30915.8	30622.5	24246.2	13327.4	6321.8	3548.9	1918.8
71°	23188.6	23713.9	24859.0	28654.0	31043.6	30662.7	23129.5	11162.5	4637.3	2474.8	1384.1
72.5°	19760.4	20037.2	22512.0	26967.1	30033.3	29219.4	20297.5	7824.2	2969.3	1514.2	795.0
75°	10883.4	11564.7	15075.8	21156.3	24021.5	23306.9	13228.0	3716.9	1481.1	828.1	328.9
77.5°	5181.4	5048.9	7355.7	12582.1	16287.2	16249.3	6664.9	1651.4	863.6	560.7	165.6
80°	1481.1	1665.6	2815.5	5981.1	9042.6	9142.0	2560.0	797.3	598.6	437.7	85.2
82.5°	447.2	456.6	1033.9	2645.1	4497.7	4239.8	960.6	406.9	430.6	347.8	49.7
85°	78.1	97.0	305.2	932.2	1715.3	1301.3	241.3	194.0	283.9	229.5	28.4
87.5°	4.7	7.1	101.7	106.5	151.4	87.5	42.6	28.4	61.5	61.5	16.6
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°	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7	4956.7
2.5°	4973.2	4987.4	4978.0	4956.7	4921.2	4878.6	4821.8	4774.5	4734.3	4713.0	4739.0
5°	5004.0	5022.9	4975.6	4869.1	4708.2	4533.2	4334.4	4180.6	4060.0	4022.1	4007.9
7.5°	5051.3	5063.1	4935.4	4698.8	4358.1	3944.0	3582.0	3276.8	3040.2	2969.3	2865.2
10°	5112.8	5105.7	4864.4	4424.3	3825.7	3203.5	2642.8	2226.4	1911.7	1798.1	1788.7
12.5°	5207.4	5169.6	4774.5	4050.5	3191.7	2377.8	1684.6	1317.8	1119.1	1052.8	1038.7
15°	5325.7	5235.8	4632.5	3612.8	2444.0	1535.5	1038.7	927.5	901.4	896.7	892.0
17.5°	5465.3	5323.4	4445.6	3075.7	1717.7	996.1	868.3	865.9	868.3	863.6	861.2
20°	5654.6	5415.7	4223.2	2439.3	1135.7	839.9	828.1	828.1	830.4	828.1	828.1
22.5°	5855.7	5524.5	3948.8	1862.0	856.5	797.3	795.0	799.7	804.4	802.1	802.1
25°	6104.1	5666.4	3586.8	1275.2	766.6	761.8	764.2	773.7	783.1	785.5	783.1
27.5°	6463.8	5841.5	3198.8	877.8	702.7	707.4	731.1	754.7	768.9	771.3	771.3
30°	6868.3	6035.5	2692.4	712.2	650.6	650.6	679.0	724.0	754.7	759.5	761.8
32.5°	7388.9	6260.3	2131.7	641.2	601.0	596.2	622.2	676.7	733.4	750.0	750.0
35°	8032.4	6525.3	1585.2	596.2	565.5	553.6	567.8	612.8	686.1	733.4	738.2
37.5°	8787.1	6776.1	1159.3	556.0	532.3	515.8	525.2	560.7	619.9	690.9	709.8
40°	9485.1	6998.5	865.9	522.9	499.2	487.4	494.5	511.0	560.7	627.0	638.8
42.5°	10246.9	7171.2	688.5	487.4	466.1	461.4	461.4	468.5	501.6	539.4	541.8
45°	11006.4	7232.7	577.3	444.8	430.6	435.3	433.0	428.2	442.4	437.7	437.7
47.5°	11548.2	7159.4	477.9	404.6	404.6	411.7	399.8	383.3	376.2	347.8	350.2
50°	11919.6	6892.0	392.7	357.3	376.2	385.6	362.0	336.0	309.9	279.2	272.1
52.5°	12073.4	6416.4	321.8	295.7	333.6	345.4	317.0	286.3	246.1	220.0	212.9
55°	11974.1	5829.7	267.4	241.3	281.5	295.7	267.4	231.9	186.9	158.5	153.8
57.5°	11536.4	5129.4	227.1	191.6	224.8	234.2	215.3	177.4	132.5	104.1	104.1
60°	10779.3	4405.4	184.5	151.4	168.0	182.2	163.3	127.8	89.9	63.9	59.1
62.5°	9243.8	3577.3	149.1	118.3	118.3	130.1	113.6	92.3	56.8	33.1	30.8
65°	6674.3	2453.5	118.3	87.5	85.2	85.2	71.0	61.5	33.1	14.2	9.5
67.5°	3627.0	1384.1	94.6	66.2	59.1	56.8	45.0	35.5	14.2	2.4	0.0
70°	1426.7	532.3	73.3	45.0	37.9	35.5	23.7	16.6	9.5	0.0	0.0
71°	967.7	366.7	63.9	37.9	30.8	26.0	18.9	14.2	7.1	0.0	0.0
72.5°	553.6	227.1	49.7	28.4	23.7	18.9	14.2	9.5	7.1	0.0	0.0
75°	241.3	115.9	30.8	21.3	16.6	11.8	9.5	7.1	2.4	0.0	0.0
77.5°	123.0	63.9	21.3	16.6	9.5	7.1	4.7	2.4	0.0	0.0	0.0
80°	68.6	33.1	14.2	9.5	7.1	4.7	2.4	2.4	0.0	0.0	0.0
82.5°	37.9	18.9	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.7	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	4.7	0.0	0.0	0.0	0.0	2.4	2.4	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)