

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: P459346

Luminaire Tested: **GALN-SA8A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25256 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

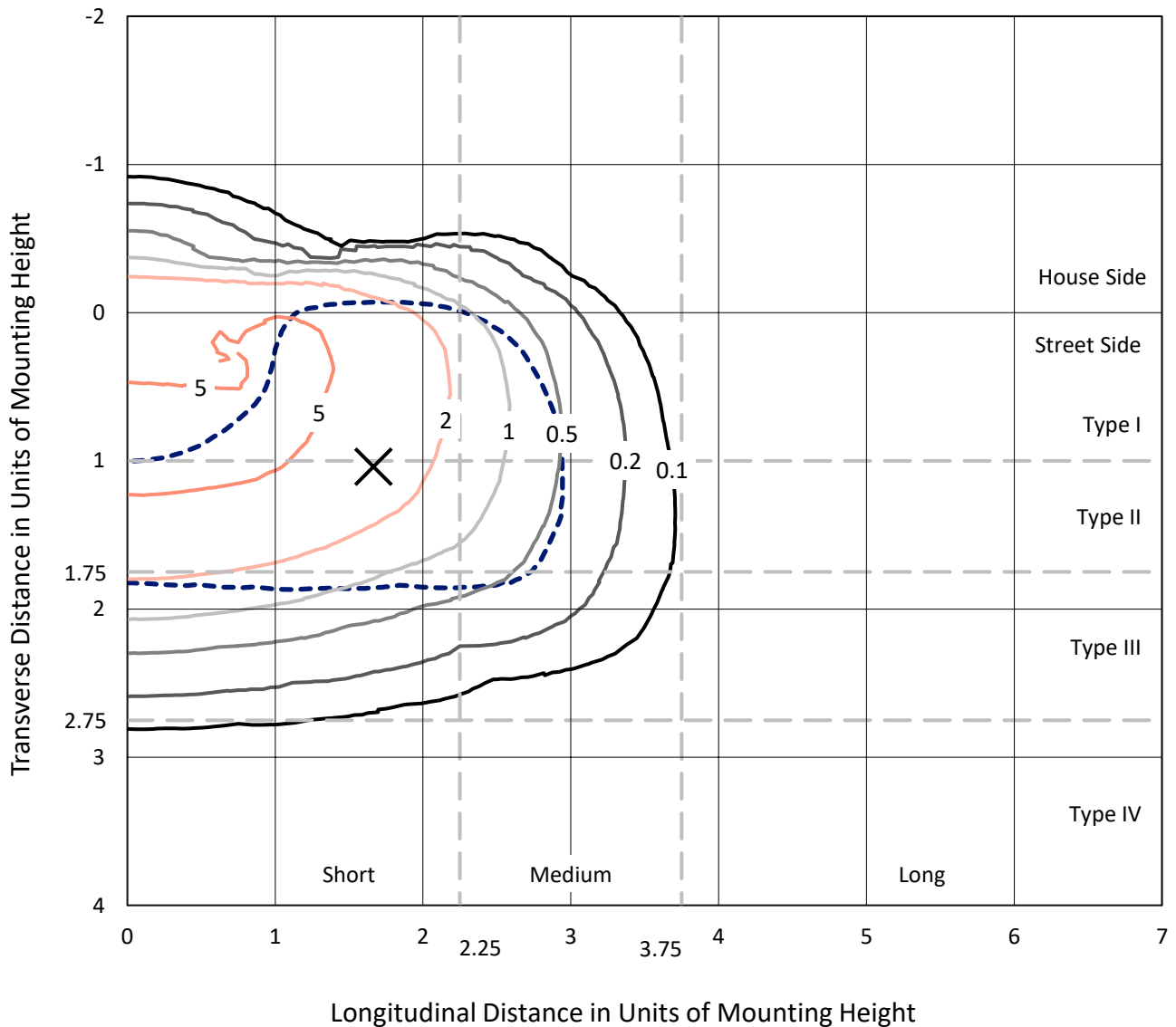
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

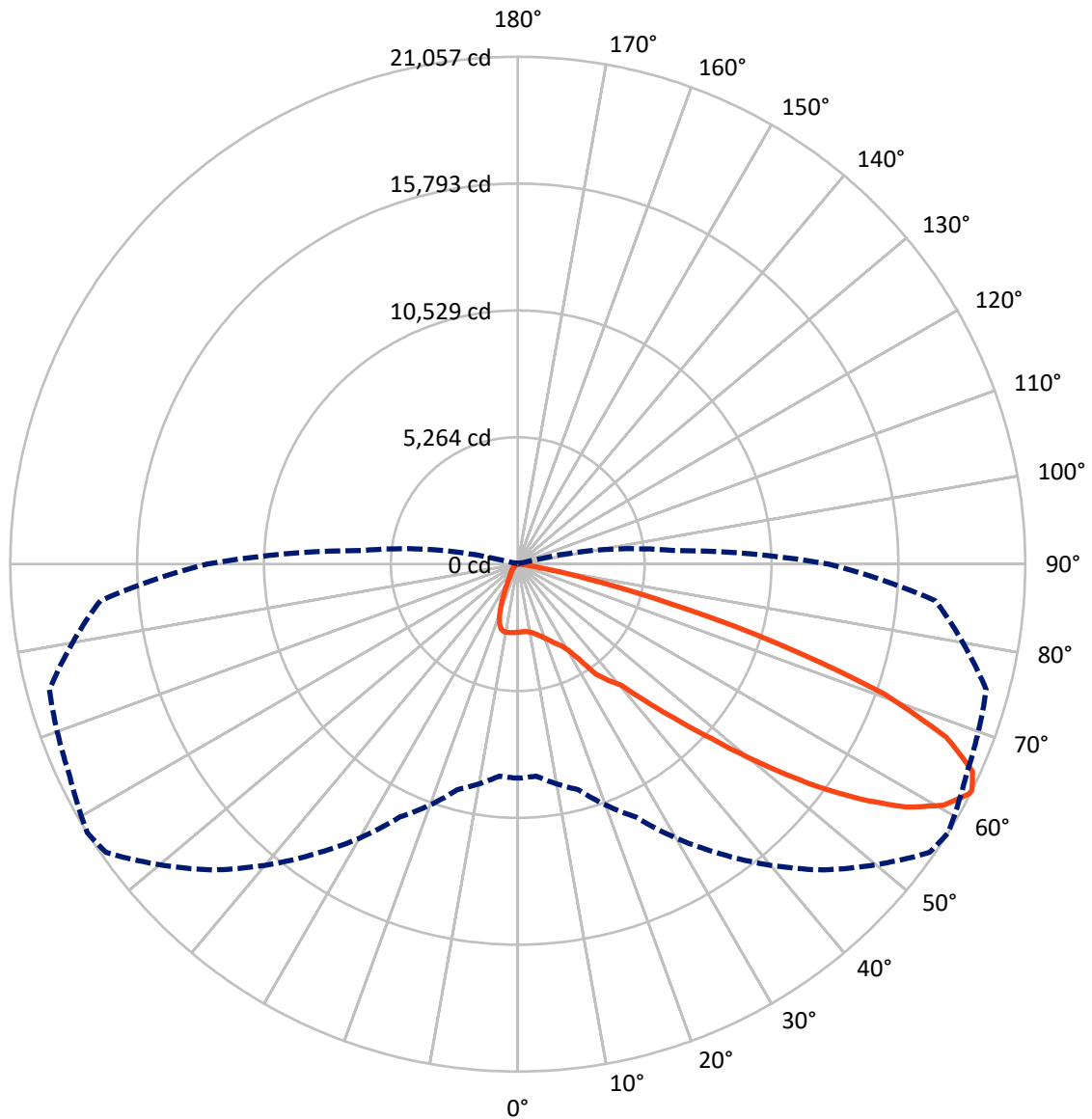
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.1	0.0	2615.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22640.9	0.0	22640.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	25256.0	0.0	25256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.0
10°-20°	720.9	2.9
20°-30°	1251.2	5.0
30°-40°	2299.2	9.1
40°-50°	4328.3	17.1
50°-60°	7403.2	29.3
60°-70°	7088.5	28.1
70°-80°	1807.6	7.2
80°-90°	92.4	0.4
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°	25256.0	100.0
0°-180°	25256.0	100.0

Coefficient of Utilization



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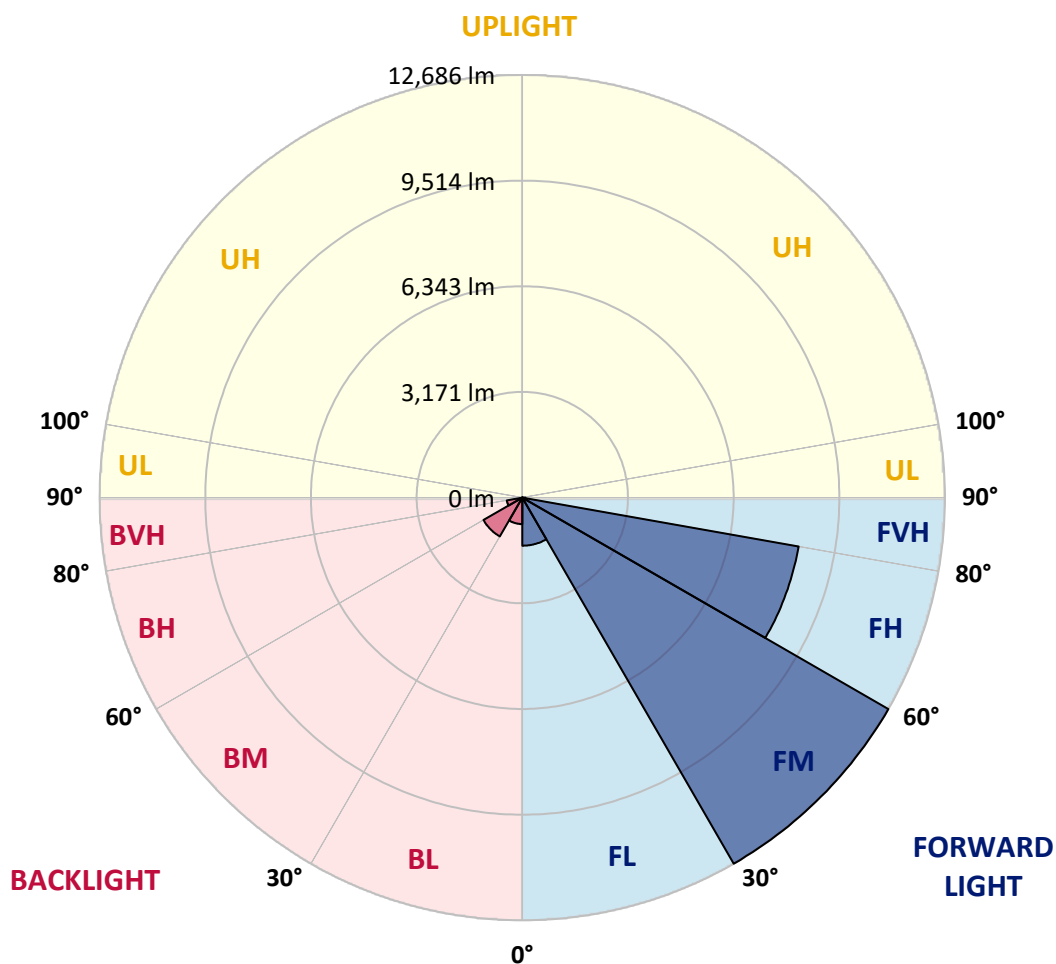
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.7	5.7			
FM (30°-60°)	12685.6	50.2			
FH (60°-80°)	8422.7	33.3			G4/12000
FVH (80°-90°)	88.8	0.4			G1/100
BL (0°-30°)	793.1	3.1	B2/1000		
BM (30°-60°)	1345.1	5.3	B2/2500		
BH (60°-80°)	473.4	1.9	B1/500		G1/500
BVH (80°-90°)	3.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5
2.5°	2757.2	2766.7	2776.2	2780.0	2793.3	2806.6	2816.1	2814.2	2829.4	2837.0	2837.0
5°	2646.9	2646.9	2671.6	2694.4	2732.4	2770.5	2806.6	2814.2	2842.7	2869.3	2878.8
7.5°	2553.7	2559.4	2578.4	2620.2	2671.6	2738.1	2810.4	2827.5	2876.9	2935.9	2960.6
10°	2510.0	2513.8	2538.5	2582.2	2646.9	2738.1	2838.9	2871.2	2947.3	3040.5	3074.7
12.5°	2500.5	2506.2	2530.9	2580.3	2654.5	2764.8	2901.7	2935.9	3046.2	3166.0	3217.3
15°	2517.6	2521.4	2546.1	2599.3	2681.1	2812.3	2985.3	3032.9	3164.1	3302.9	3369.4
17.5°	2578.4	2574.6	2591.7	2635.5	2726.7	2871.2	3086.1	3143.2	3297.2	3487.3	3531.1
20°	2837.0	2812.3	2797.1	2759.1	2795.2	2954.9	3207.8	3291.5	3481.6	3675.6	3706.0
22.5°	3394.1	3339.0	3230.6	3082.3	2968.2	3069.0	3354.2	3451.2	3696.5	3886.6	3886.6
25°	4103.4	4033.0	3924.7	3601.4	3321.9	3257.2	3519.6	3641.3	3930.4	4122.4	4059.7
27.5°	4991.4	4936.3	4725.2	4348.7	3920.9	3586.2	3711.7	3823.9	4137.6	4369.6	4238.4
30°	5714.0	5687.3	5514.3	5177.7	4706.2	4217.5	4069.2	4143.3	4413.3	4681.5	4546.4
32.5°	6324.3	6324.3	6147.5	5833.8	5392.6	4959.1	4675.7	4729.0	4987.6	5297.5	5046.5
35°	6995.6	6972.7	6830.1	6531.6	6037.2	5655.0	5539.0	5611.3	5845.2	6075.2	5457.3
37.5°	7701.0	7693.4	7545.1	7256.1	6852.9	6371.9	6100.0	6119.0	6238.8	6379.5	5938.3
40°	8467.3	8478.7	8284.8	8106.0	7725.7	7233.2	6712.2	6592.4	6704.6	7102.0	6826.3
42.5°	9372.4	9345.8	9262.1	9018.7	8712.6	8417.9	7792.3	7748.5	7847.4	8273.4	7974.8
45°	10423.9	10462.0	10317.5	10182.4	9977.1	9731.8	9208.9	9132.8	9241.2	9902.9	9478.9
47.5°	11477.4	11441.2	11534.4	11509.7	11620.0	11437.4	10975.4	10819.4	11079.9	11707.4	11083.8
50°	12279.8	12319.7	12513.7	12797.0	13270.5	13373.1	12930.1	12876.9	12992.8	13396.0	12519.4
52.5°	12800.8	12933.9	13238.1	13966.4	14820.2	15483.8	15147.2	15118.7	15071.2	15179.5	13892.2
55°	13141.2	13276.2	13673.6	14746.0	16215.9	17294.0	17311.1	17189.4	16875.7	16797.7	15175.7
57.5°	12932.0	12958.6	13525.3	14959.0	16989.8	18585.1	19144.1	19022.4	18442.5	18147.8	16309.0
60°	11623.8	11678.9	12468.0	14152.7	16653.2	19007.2	20359.2	20304.0	19669.0	19336.2	17191.3
62.5°	9305.9	9465.6	10277.5	12156.2	15088.3	18296.1	20851.7	21007.6	20513.2	20055.0	17468.9
63°	8879.9	8828.6	9686.2	11574.3	14673.8	17944.3	20859.3	21057.0	20551.2	20123.4	17392.9
65°	6573.4	6727.5	7284.6	9127.1	12211.3	16307.1	20389.6	20739.5	20410.5	19821.1	16550.5
67.5°	3690.8	3683.2	4299.3	5972.6	8547.2	12791.3	18436.8	19176.5	19108.0	17786.5	13719.2
70°	1806.4	1834.9	2087.8	3095.6	4957.2	8824.8	15320.3	16118.9	16143.6	13970.2	9486.5
72.5°	817.6	830.9	1011.6	1507.9	2548.0	4698.6	10557.0	11319.5	11178.8	8902.7	5238.6
75°	431.6	460.2	557.1	758.7	1228.4	1937.6	5742.5	6480.3	6185.5	4067.3	1928.1
77.5°	319.4	329.0	378.4	483.0	657.9	754.9	2477.6	2947.3	2761.0	1471.7	638.9
80°	233.9	241.5	281.4	342.3	414.5	384.1	933.6	1070.5	960.2	500.1	195.9
82.5°	142.6	144.5	205.4	254.8	260.5	214.9	308.0	330.9	346.1	281.4	106.5
85°	51.3	64.7	138.8	184.4	154.0	108.4	129.3	142.6	155.9	178.7	62.7
87.5°	5.7	7.6	66.6	89.4	43.7	39.9	47.5	53.2	57.0	66.6	30.4
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°	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5	2827.5
2.5°	2844.6	2852.2	2846.5	2837.0	2835.1	2829.4	2818.0	2818.0	2818.0	2821.8	2818.0
5°	2886.5	2892.2	2878.8	2859.8	2838.9	2812.3	2783.8	2766.7	2764.8	2761.0	2751.4
7.5°	2966.3	2973.9	2943.5	2897.9	2840.8	2776.2	2715.3	2658.3	2631.7	2610.7	2610.7
10°	3082.3	3089.9	3029.1	2947.3	2833.2	2702.0	2557.5	2426.3	2323.6	2276.1	2264.7
12.5°	3221.1	3224.9	3124.1	2981.5	2793.3	2540.4	2232.3	1945.2	1745.6	1654.3	1644.8
15°	3373.2	3346.6	3213.5	2994.8	2679.2	2207.6	1675.2	1323.4	1116.2	1055.3	1078.1
17.5°	3527.3	3477.8	3282.0	2973.9	2422.5	1675.2	1125.7	903.2	838.6	821.4	821.4
20°	3671.8	3603.3	3331.4	2882.6	1977.5	1154.2	834.8	781.5	770.1	758.7	760.6
22.5°	3816.3	3711.7	3375.1	2679.2	1473.7	825.2	747.3	730.2	715.0	699.7	697.8
25°	3957.0	3812.5	3392.2	2302.7	1004.0	709.3	682.6	659.8	629.4	612.3	608.5
27.5°	4103.4	3934.2	3380.8	1827.3	732.1	635.1	608.5	576.1	540.0	509.6	509.6
30°	4384.8	4166.2	3340.9	1313.9	616.1	559.0	524.8	473.5	433.5	403.1	401.2
32.5°	4768.9	4468.5	3204.0	924.1	547.6	492.5	441.1	384.1	342.3	319.4	319.4
35°	5111.2	4772.7	2947.3	680.7	492.5	427.8	365.1	309.9	277.6	262.4	256.7
37.5°	5632.2	5217.7	2593.6	553.3	439.2	370.8	306.1	254.8	228.2	216.8	216.8
40°	6413.7	5761.5	2160.1	484.9	387.9	315.6	254.8	214.9	194.0	180.6	180.6
42.5°	7383.5	6427.0	1720.8	435.4	340.4	271.9	213.0	182.5	163.5	154.0	152.1
45°	8604.2	7128.7	1325.3	389.8	302.3	232.0	180.6	154.0	135.0	129.3	131.2
47.5°	9878.2	7746.6	1026.8	349.9	262.4	195.9	154.0	133.1	119.8	112.2	112.2
50°	10965.9	8172.6	779.6	304.2	232.0	165.4	135.0	119.8	108.4	104.6	102.7
52.5°	11874.8	8296.2	597.1	264.3	203.5	142.6	119.8	108.4	98.9	93.2	93.2
55°	12648.7	8187.8	467.8	222.5	171.1	123.6	106.5	97.0	85.6	79.9	78.0
57.5°	13101.2	7839.8	357.5	184.4	138.8	102.7	93.2	81.8	68.5	58.9	58.9
60°	13329.4	7334.0	273.8	152.1	106.5	81.8	76.1	60.8	47.5	39.9	38.0
62.5°	13055.6	6662.8	207.3	119.8	79.9	60.8	51.3	43.7	30.4	22.8	22.8
63°	12886.4	6468.8	199.7	114.1	74.2	57.0	47.5	39.9	26.6	20.9	19.0
65°	11747.4	5622.7	163.5	91.3	58.9	39.9	32.3	28.5	19.0	9.5	7.6
67.5°	9328.7	4301.2	129.3	68.5	41.8	28.5	19.0	17.1	5.7	0.0	0.0
70°	6307.2	2778.1	100.8	49.4	28.5	17.1	9.5	7.6	1.9	0.0	0.0
72.5°	3289.6	1424.2	78.0	36.1	17.1	11.4	5.7	1.9	0.0	0.0	0.0
75°	1163.7	484.9	57.0	22.8	11.4	5.7	1.9	0.0	0.0	0.0	0.0
77.5°	351.8	180.6	36.1	17.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0
80°	123.6	66.6	20.9	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	60.8	32.3	13.3	9.5	5.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	34.2	20.9	11.4	9.5	5.7	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	15.2	11.4	9.5	7.6	3.8	1.9	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)