

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: P459259

Luminaire Tested: **GALN-SA7B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459259
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-SA7B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 27106 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 III - Short
BUG Rating: B2 - U0 - G4

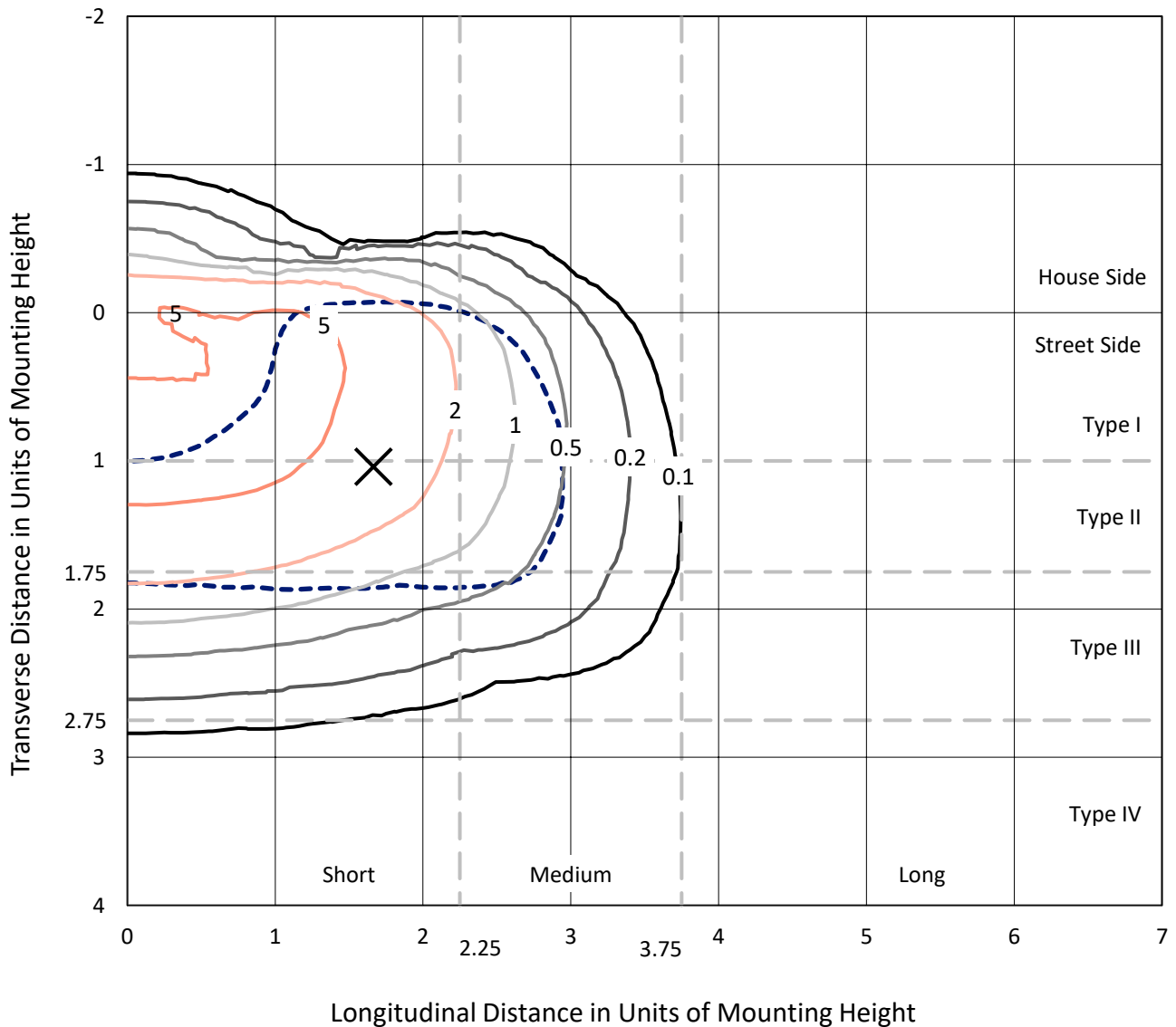
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

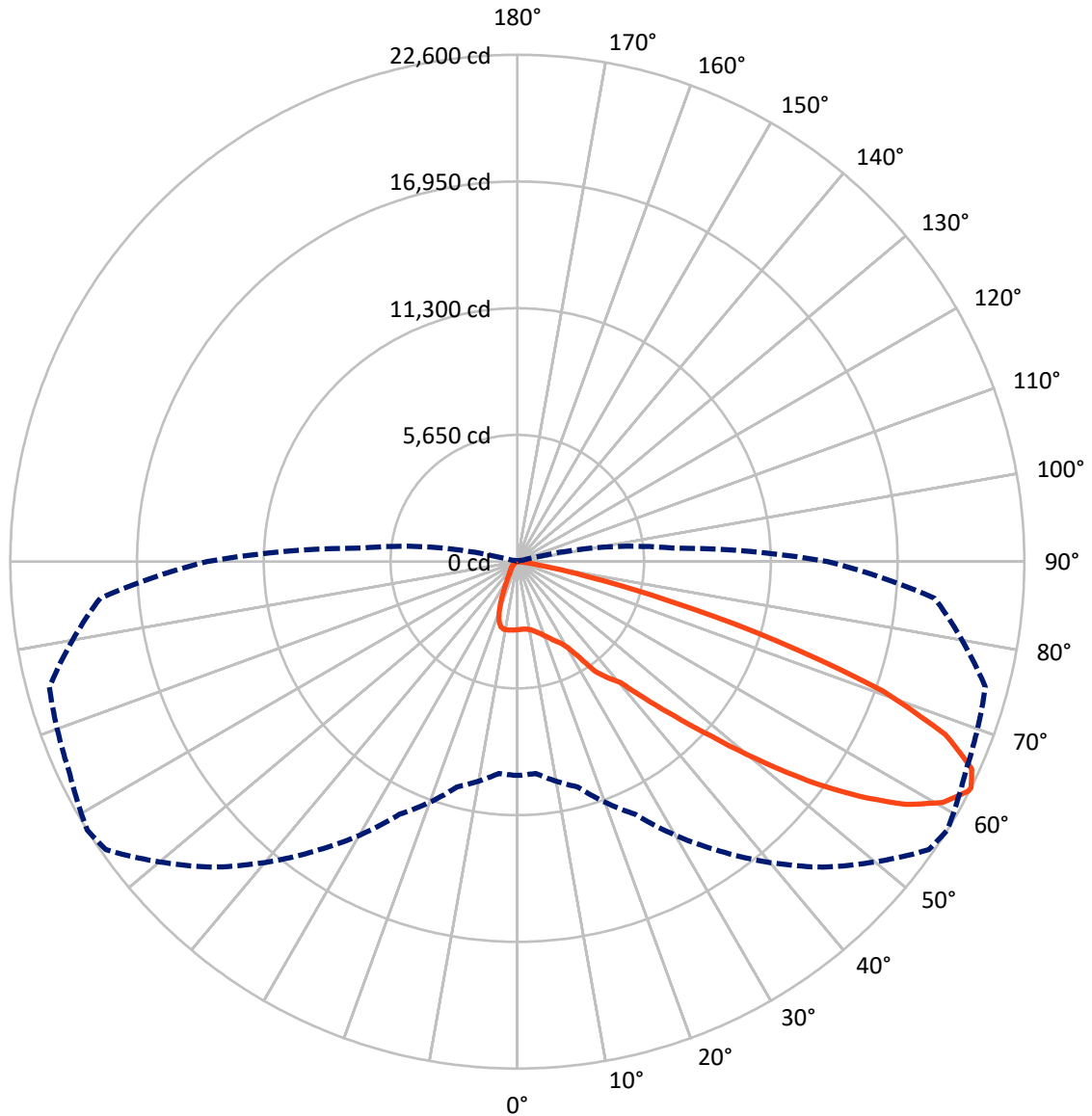
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2806.7	0.0	2806.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24299.3	0.0	24299.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	27106.0	0.0	27106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	1.0
10°-20°	773.7	2.9
20°-30°	1342.9	5.0
30°-40°	2467.7	9.1
40°-50°	4645.3	17.1
50°-60°	7945.4	29.3
60°-70°	7607.8	28.1
70°-80°	1940.0	7.2
80°-90°	99.2	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°	27106.0	100.0
0°-180°	27106.0	100.0

Coefficient of Utilization



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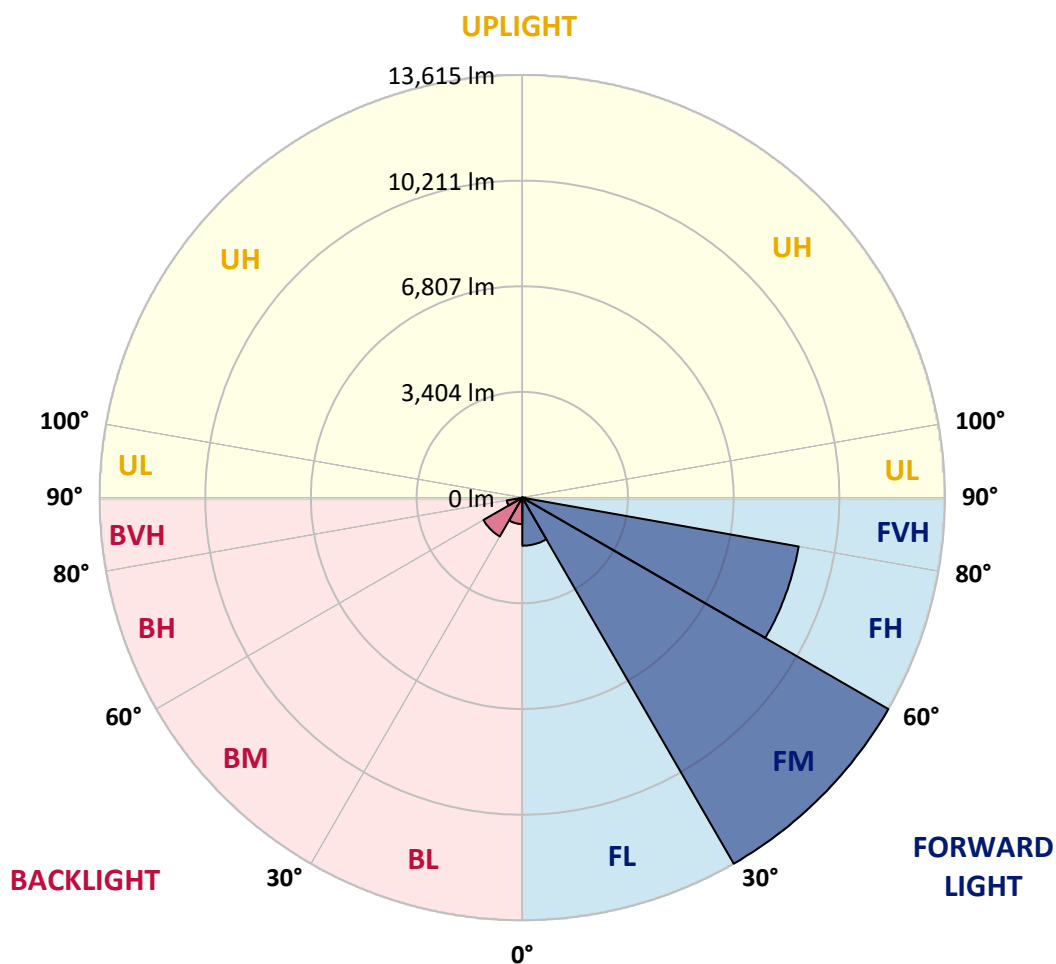
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1549.5	5.7			
FM	(30°-60°)	13614.8	50.2			
FH	(60°-80°)	9039.7	33.3			G4/12000
FVH	(80°-90°)	95.3	0.4			G1/100
BL	(0°-30°)	851.2	3.1	B2/1000		
BM	(30°-60°)	1443.6	5.3	B2/2500		
BH	(60°-80°)	508.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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°	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6
2.5°	2959.1	2969.3	2979.5	2983.6	2997.9	3012.2	3022.4	3020.3	3036.7	3044.8	3044.8
5°	2840.7	2840.7	2867.3	2891.8	2932.6	2973.4	3012.2	3020.3	3050.9	3079.5	3089.7
7.5°	2740.8	2746.9	2767.3	2812.2	2867.3	2938.7	3016.3	3034.6	3087.7	3150.9	3177.5
10°	2693.8	2697.9	2724.4	2771.4	2840.7	2938.7	3046.9	3081.6	3163.2	3263.2	3299.9
12.5°	2683.6	2689.7	2716.3	2769.3	2848.9	2967.3	3114.2	3150.9	3269.3	3397.9	3453.0
15°	2702.0	2706.1	2732.6	2789.7	2877.5	3018.3	3204.0	3255.0	3395.8	3544.8	3616.2
17.5°	2767.3	2763.2	2781.6	2828.5	2926.5	3081.6	3312.2	3373.4	3538.7	3742.8	3789.7
20°	3044.8	3018.3	3002.0	2961.2	2999.9	3171.4	3442.8	3532.6	3736.6	3944.8	3977.5
22.5°	3642.8	3583.6	3467.3	3308.1	3185.6	3293.8	3599.9	3704.0	3967.3	4171.3	4171.3
25°	4404.0	4328.5	4212.1	3865.2	3565.2	3495.8	3777.5	3908.1	4218.3	4424.4	4357.0
27.5°	5357.0	5297.8	5071.3	4667.2	4208.1	3848.9	3983.6	4104.0	4440.7	4689.7	4548.9
30°	6132.5	6103.9	5918.2	5557.0	5050.9	4526.4	4367.2	4446.8	4736.6	5024.4	4879.5
32.5°	6787.6	6787.6	6597.8	6261.1	5787.6	5322.3	5018.2	5075.4	5352.9	5685.6	5416.2
35°	7508.0	7483.5	7330.4	7010.0	6479.4	6069.2	5944.8	6022.3	6273.3	6520.3	5857.0
37.5°	8265.1	8256.9	8097.8	7787.6	7354.9	6838.6	6546.8	6567.2	6695.8	6846.8	6373.3
40°	9087.5	9099.8	8891.6	8699.8	8291.6	7763.1	7203.9	7075.3	7195.7	7622.3	7326.4
42.5°	10058.9	10030.4	9940.6	9679.4	9350.8	9034.5	8363.1	8316.1	8422.2	8879.4	8559.0
45°	11187.5	11228.3	11073.2	10928.3	10707.9	10444.6	9883.4	9801.8	9918.1	10628.3	10173.2
47.5°	12318.1	12279.3	12379.3	12352.8	12471.1	12275.2	11779.3	11612.0	11891.6	12565.0	11895.6
50°	13179.3	13222.1	13430.3	13734.4	14242.5	14352.7	13877.2	13820.1	13944.6	14377.2	13436.4
52.5°	13738.4	13881.3	14207.8	14989.4	15905.7	16618.0	16256.8	16226.1	16175.1	16291.4	14909.8
55°	14103.7	14248.6	14675.2	15826.2	17403.7	18560.8	18579.1	18448.5	18111.8	18028.1	16287.4
57.5°	13879.3	13907.8	14516.0	16054.7	18234.3	19946.5	20546.4	20415.8	19793.4	19477.1	17503.7
60°	12475.2	12534.4	13381.3	15189.4	17873.0	20399.5	21850.5	21791.3	21109.7	20752.6	18450.6
62.5°	9987.5	10158.9	11030.3	13046.6	16193.5	19636.3	22379.1	22546.4	22015.8	21524.0	18748.5
63°	9530.4	9475.3	10395.7	12422.2	15748.6	19258.7	22387.2	22599.5	22056.6	21597.4	18666.9
65°	7054.9	7220.2	7818.2	9795.7	13105.8	17501.6	21883.2	22258.7	21905.6	21273.0	17762.8
67.5°	3961.1	3953.0	4614.2	6410.1	9173.3	13728.2	19787.3	20581.1	20507.7	19089.3	14724.1
70°	1938.7	1969.3	2240.8	3322.4	5320.3	9471.2	16442.5	17299.6	17326.1	14993.5	10181.4
72.5°	877.5	891.8	1085.7	1618.3	2734.6	5042.7	11330.3	12148.7	11997.7	9554.9	5622.3
75°	463.3	493.9	597.9	814.3	1318.3	2079.5	6163.1	6954.9	6638.6	4365.2	2069.3
77.5°	342.8	353.1	406.1	518.4	706.1	810.2	2659.1	3163.2	2963.2	1579.6	685.7
80°	251.0	259.2	302.0	367.3	444.9	412.2	1002.0	1149.0	1030.6	536.7	210.2
82.5°	153.1	155.1	220.4	273.5	279.6	230.6	330.6	355.1	371.4	302.0	114.3
85°	55.1	69.4	149.0	198.0	165.3	116.3	138.8	153.1	167.3	191.8	67.3
87.5°	6.1	8.2	71.4	95.9	46.9	42.9	51.0	57.1	61.2	71.4	32.7
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°	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6	3034.6
2.5°	3053.0	3061.2	3055.0	3044.8	3042.8	3036.7	3024.4	3024.4	3024.4	3028.5	3024.4
5°	3097.9	3104.0	3089.7	3069.3	3046.9	3018.3	2987.7	2969.3	2967.3	2963.2	2953.0
7.5°	3183.6	3191.8	3159.1	3110.1	3048.9	2979.5	2914.2	2853.0	2824.4	2802.0	2802.0
10°	3308.1	3316.2	3250.9	3163.2	3040.7	2899.9	2744.8	2604.0	2493.8	2442.8	2430.6
12.5°	3457.1	3461.1	3353.0	3199.9	2997.9	2726.5	2395.9	2087.7	1873.4	1775.5	1765.3
15°	3620.3	3591.8	3448.9	3214.2	2875.4	2369.3	1797.9	1420.4	1197.9	1132.6	1157.1
17.5°	3785.6	3732.6	3522.4	3191.8	2599.9	1797.9	1208.1	969.4	900.0	881.6	881.6
20°	3940.7	3867.3	3575.4	3093.8	2122.4	1238.7	895.9	838.8	826.5	814.3	816.3
22.5°	4095.8	3983.6	3622.4	2875.4	1581.6	885.7	802.0	783.7	767.3	751.0	749.0
25°	4246.8	4091.7	3640.7	2471.4	1077.5	761.2	732.6	708.1	675.5	657.1	653.0
27.5°	4404.0	4222.3	3628.5	1961.2	785.7	681.6	653.0	618.4	579.6	546.9	546.9
30°	4706.0	4471.3	3585.6	1410.2	661.2	600.0	563.3	508.2	465.3	432.6	430.6
32.5°	5118.2	4795.8	3438.7	991.8	587.7	528.6	473.5	412.2	367.3	342.8	342.8
35°	5485.6	5122.3	3163.2	730.6	528.6	459.2	391.8	332.6	298.0	281.6	275.5
37.5°	6044.8	5599.9	2783.6	593.9	471.4	397.9	328.6	273.5	244.9	232.6	232.6
40°	6883.5	6183.5	2318.3	520.4	416.3	338.8	273.5	230.6	208.2	193.9	193.9
42.5°	7924.3	6897.8	1846.9	467.3	365.3	291.8	228.6	195.9	175.5	165.3	163.3
45°	9234.5	7650.8	1422.4	418.4	324.5	249.0	193.9	165.3	144.9	138.8	140.8
47.5°	10601.8	8314.1	1102.0	375.5	281.6	210.2	165.3	142.9	128.6	120.4	120.4
50°	11769.1	8771.2	836.7	326.5	249.0	177.5	144.9	128.6	116.3	112.2	110.2
52.5°	12744.6	8903.9	640.8	283.7	218.4	153.1	128.6	116.3	106.1	100.0	100.0
55°	13575.2	8787.5	502.0	238.8	183.7	132.6	114.3	104.1	91.8	85.7	83.7
57.5°	14060.9	8414.1	383.7	198.0	149.0	110.2	100.0	87.8	73.5	63.3	63.3
60°	14305.8	7871.2	293.9	163.3	114.3	87.8	81.6	65.3	51.0	42.9	40.8
62.5°	14011.9	7150.8	222.4	128.6	85.7	65.3	55.1	46.9	32.7	24.5	24.5
63°	13830.3	6942.7	214.3	122.4	79.6	61.2	51.0	42.9	28.6	22.4	20.4
65°	12607.9	6034.6	175.5	98.0	63.3	42.9	34.7	30.6	20.4	10.2	8.2
67.5°	10012.0	4616.2	138.8	73.5	44.9	30.6	20.4	18.4	6.1	0.0	0.0
70°	6769.2	2981.6	108.2	53.1	30.6	18.4	10.2	8.2	2.0	0.0	0.0
72.5°	3530.5	1528.5	83.7	38.8	18.4	12.2	6.1	2.0	0.0	0.0	0.0
75°	1248.9	520.4	61.2	24.5	12.2	6.1	2.0	0.0	0.0	0.0	0.0
77.5°	377.5	193.9	38.8	18.4	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	132.6	71.4	22.4	12.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.3	34.7	14.3	10.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	36.7	22.4	12.2	10.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	16.3	12.2	10.2	8.2	4.1	2.0	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)