

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: P456388

Luminaire Tested: **GALN-SA7C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456388
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-SA7C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 26429 lumens
Efficiency: N/A
Efficacy: 70.1 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

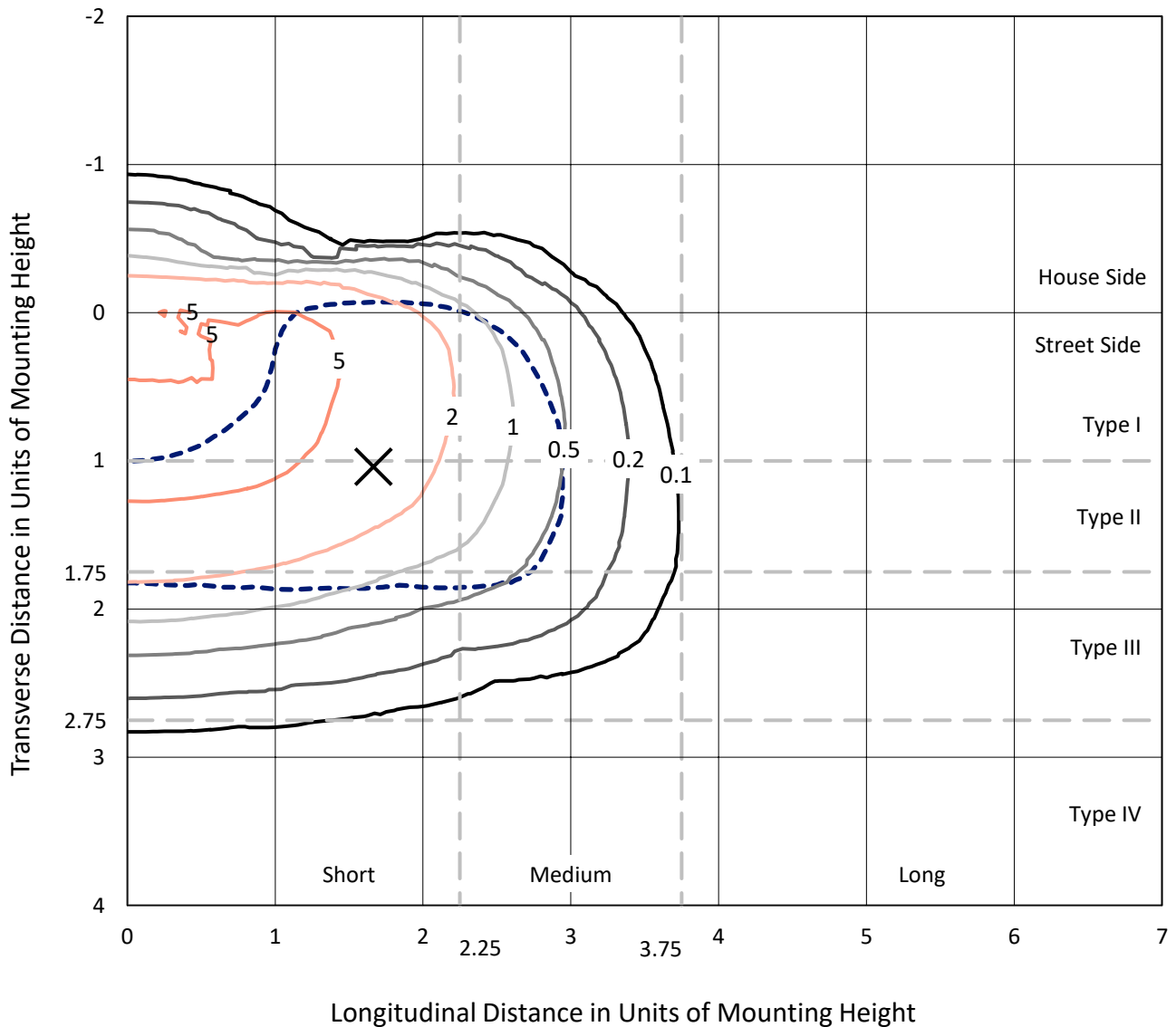
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

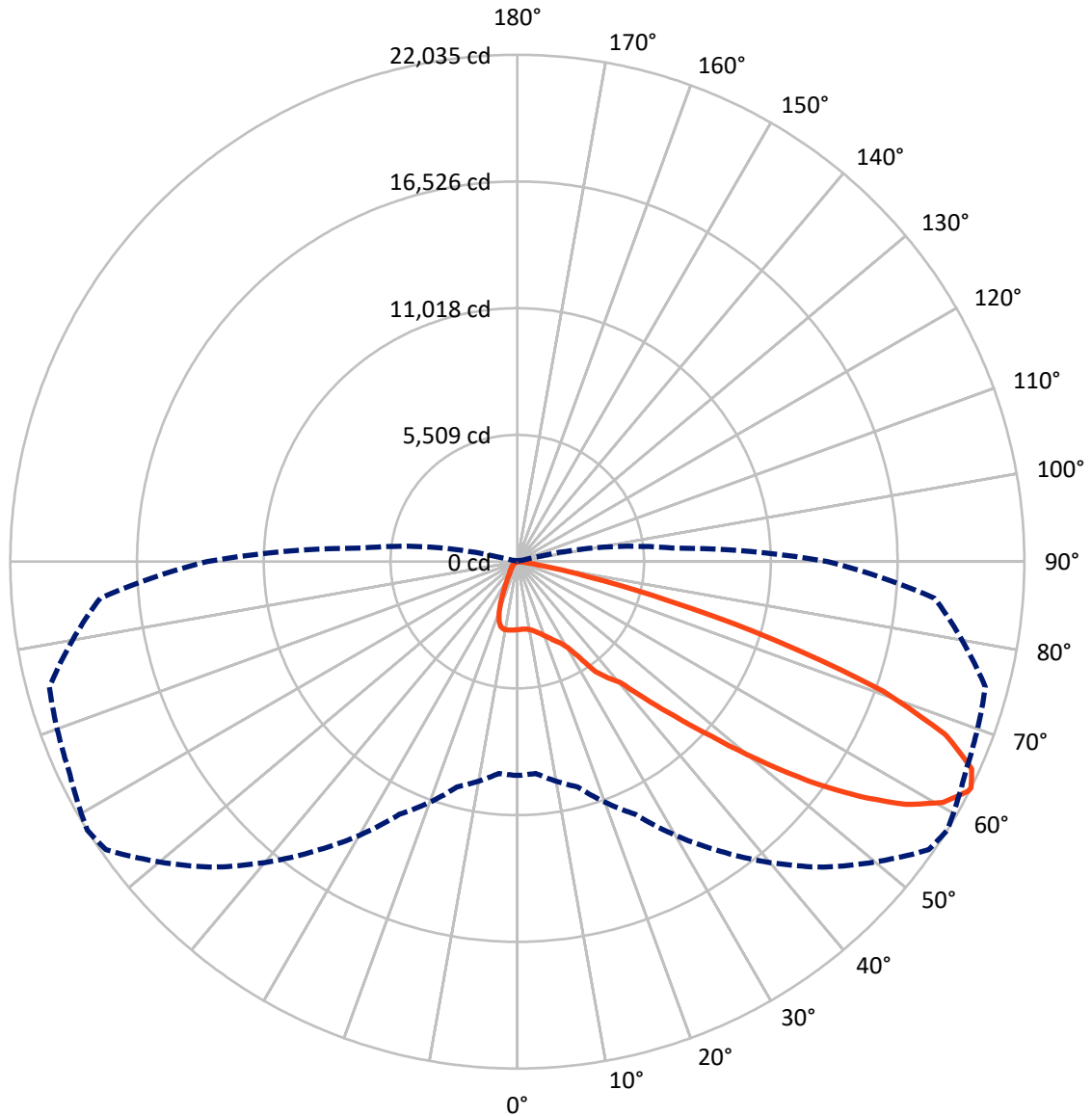
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2736.5	0.0	2736.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23692.4	0.0	23692.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	26429.0	0.0	26429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.0
10°-20°	754.4	2.9
20°-30°	1309.3	5.0
30°-40°	2406.0	9.1
40°-50°	4529.3	17.1
50°-60°	7747.0	29.3
60°-70°	7417.7	28.1
70°-80°	1891.5	7.2
80°-90°	96.7	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°	26429.0	100.0
0°-180°	26429.0	100.0

Coefficient of Utilization



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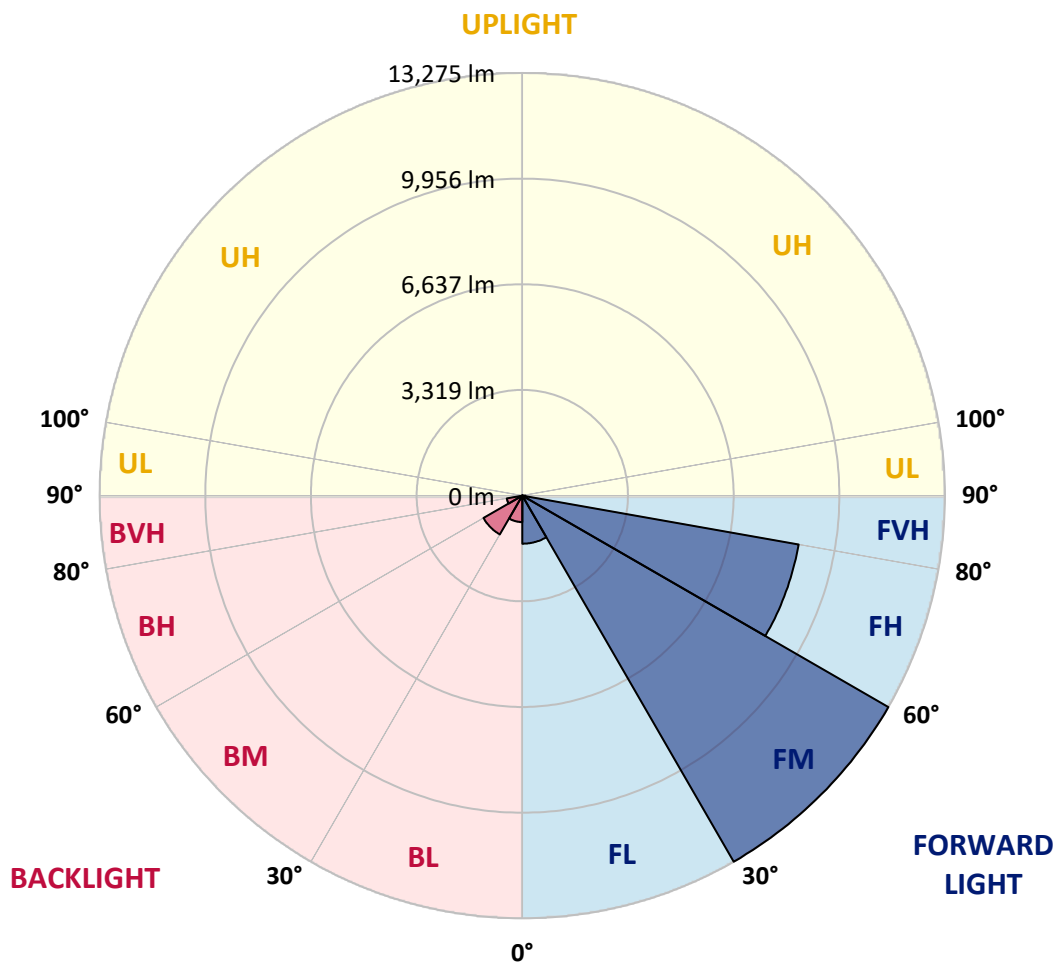
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.8	5.7			
FM	(30°-60°)	13274.8	50.2			
FH	(60°-80°)	8813.9	33.3			G4/12000
FVH	(80°-90°)	93.0	0.4			G1/100
BL	(0°-30°)	829.9	3.1	B2/1000		
BM	(30°-60°)	1407.5	5.3	B2/2500		
BH	(60°-80°)	495.4	1.9	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8
2.5°	2885.2	2895.2	2905.1	2909.1	2923.0	2936.9	2946.9	2944.9	2960.8	2968.8	2968.8
5°	2769.8	2769.8	2795.7	2819.5	2859.3	2899.1	2936.9	2944.9	2974.7	3002.6	3012.6
7.5°	2672.3	2678.3	2698.2	2741.9	2795.7	2865.3	2940.9	2958.8	3010.6	3072.2	3098.1
10°	2626.5	2630.5	2656.4	2702.1	2769.8	2865.3	2970.8	3004.6	3084.2	3181.7	3217.5
12.5°	2616.6	2622.6	2648.4	2700.2	2777.8	2893.2	3036.4	3072.2	3187.7	3313.0	3366.7
15°	2634.5	2638.5	2664.3	2720.1	2805.6	2942.9	3124.0	3173.7	3311.0	3456.3	3525.9
17.5°	2698.2	2694.2	2712.1	2757.9	2853.4	3004.6	3229.4	3289.1	3450.3	3649.3	3695.1
20°	2968.8	2942.9	2927.0	2887.2	2925.0	3092.1	3356.8	3444.3	3643.3	3846.3	3878.1
22.5°	3551.8	3494.1	3380.7	3225.5	3106.1	3211.5	3510.0	3611.5	3868.2	4067.1	4067.1
25°	4294.0	4220.4	4106.9	3768.7	3476.2	3408.5	3683.1	3810.5	4112.9	4313.9	4248.2
27.5°	5223.2	5165.5	4944.6	4550.7	4103.0	3752.8	3884.1	4001.5	4329.8	4572.6	4435.3
30°	5979.3	5951.5	5770.4	5418.2	4924.7	4413.4	4258.2	4335.8	4618.3	4898.9	4757.6
32.5°	6618.1	6618.1	6433.0	6104.7	5643.1	5189.4	4892.9	4948.6	5219.2	5543.6	5280.9
35°	7320.5	7296.6	7147.4	6835.0	6317.6	5917.7	5796.3	5871.9	6116.6	6357.4	5710.7
37.5°	8058.7	8050.7	7895.5	7593.1	7171.2	6667.8	6383.3	6403.2	6528.5	6675.8	6214.1
40°	8860.6	8872.5	8669.5	8482.5	8084.5	7569.2	7024.0	6898.6	7016.0	7431.9	7143.4
42.5°	9807.7	9779.9	9692.3	9437.6	9117.3	8808.8	8154.2	8108.4	8211.9	8657.6	8345.2
45°	10908.1	10947.9	10796.6	10655.4	10440.5	10183.8	9636.6	9557.0	9670.4	10362.9	9919.1
47.5°	12010.4	11972.6	12070.1	12044.2	12159.7	11968.6	11485.1	11321.9	11594.5	12251.2	11598.5
50°	12850.1	12891.9	13094.9	13391.3	13886.8	13994.2	13530.6	13474.9	13596.3	14018.1	13100.8
52.5°	13395.3	13534.6	13853.0	14615.1	15508.5	16202.9	15850.7	15820.9	15771.1	15884.6	14537.5
55°	13751.5	13892.8	14308.6	15430.9	16969.0	18097.2	18115.1	17987.8	17659.5	17577.9	15880.6
57.5°	13532.6	13560.5	14153.4	15653.7	17778.8	19448.3	20033.3	19905.9	19299.0	18990.6	17066.5
60°	12163.6	12221.3	13047.1	14810.1	17426.6	19890.0	21304.8	21247.1	20582.5	20234.3	17989.8
62.5°	9738.1	9905.2	10754.9	12720.8	15789.0	19145.8	21820.1	21983.3	21465.9	20986.4	18280.3
63°	9292.4	9238.6	10136.0	12111.9	15355.3	18777.7	21828.1	22035.0	21505.7	21058.0	18200.7
65°	6878.7	7039.9	7622.9	9551.0	12778.5	17064.5	21336.6	21702.7	21358.5	20741.6	17319.2
67.5°	3862.2	3854.2	4498.9	6250.0	8944.1	13385.4	19293.1	20067.1	19995.5	18612.6	14356.4
70°	1890.3	1920.2	2184.8	3239.4	5187.4	9234.6	16031.8	16867.5	16893.4	14619.0	9927.1
72.5°	855.6	869.5	1058.6	1577.9	2666.3	4916.8	11047.4	11845.3	11698.0	9316.2	5481.9
75°	451.7	481.5	583.0	793.9	1285.4	2027.6	6009.2	6781.2	6472.8	4256.2	2017.7
77.5°	334.3	344.2	396.0	505.4	688.5	789.9	2592.7	3084.2	2889.2	1540.1	668.6
80°	244.7	252.7	294.5	358.2	433.8	401.9	977.0	1120.3	1004.8	523.3	204.9
82.5°	149.2	151.2	214.9	266.6	272.6	224.8	322.3	346.2	362.1	294.5	111.4
85°	53.7	67.7	145.3	193.0	161.2	113.4	135.3	149.2	163.2	187.0	65.7
87.5°	6.0	8.0	69.6	93.5	45.8	41.8	49.7	55.7	59.7	69.6	31.8
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°	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8
2.5°	2976.7	2984.7	2978.7	2968.8	2966.8	2960.8	2948.9	2948.9	2948.9	2952.9	2948.9
5°	3020.5	3026.5	3012.6	2992.7	2970.8	2942.9	2913.1	2895.2	2893.2	2889.2	2879.2
7.5°	3104.1	3112.0	3080.2	3032.5	2972.8	2905.1	2841.4	2781.7	2753.9	2732.0	2732.0
10°	3225.5	3233.4	3169.7	3084.2	2964.8	2827.5	2676.3	2539.0	2431.5	2381.8	2369.8
12.5°	3370.7	3374.7	3269.2	3120.0	2923.0	2658.4	2336.0	2035.6	1826.6	1731.1	1721.2
15°	3529.9	3502.0	3362.8	3133.9	2803.6	2310.2	1753.0	1384.9	1168.0	1104.3	1128.2
17.5°	3691.1	3639.3	3434.4	3112.0	2535.0	1753.0	1178.0	945.2	877.5	859.6	859.6
20°	3842.3	3770.7	3486.1	3016.5	2069.4	1207.8	873.5	817.8	805.9	793.9	795.9
22.5°	3993.5	3884.1	3531.9	2803.6	1542.1	863.6	782.0	764.1	748.2	732.2	730.3
25°	4140.8	3989.5	3549.8	2409.6	1050.6	742.2	714.3	690.5	658.6	640.7	636.7
27.5°	4294.0	4116.9	3537.9	1912.2	766.1	664.6	636.7	602.9	565.1	533.3	533.3
30°	4588.5	4359.6	3496.1	1375.0	644.7	585.0	549.2	495.5	453.7	421.8	419.8
32.5°	4990.4	4676.0	3352.8	967.0	573.1	515.4	461.6	401.9	358.2	334.3	334.3
35°	5348.6	4994.4	3084.2	712.3	515.4	447.7	382.0	324.3	290.5	274.6	268.6
37.5°	5893.8	5460.0	2714.1	579.0	459.6	388.0	320.4	266.6	238.8	226.8	226.8
40°	6711.6	6029.1	2260.4	507.4	405.9	330.3	266.6	224.8	203.0	189.0	189.0
42.5°	7726.4	6725.5	1800.8	455.7	356.2	284.5	222.9	191.0	171.1	161.2	159.2
45°	9003.8	7459.8	1386.9	407.9	316.4	242.8	189.0	161.2	141.3	135.3	137.3
47.5°	10337.0	8106.4	1074.5	366.1	274.6	204.9	161.2	139.3	125.4	117.4	117.4
50°	11475.2	8552.1	815.8	318.4	242.8	173.1	141.3	125.4	113.4	109.4	107.4
52.5°	12426.3	8681.5	624.8	276.6	212.9	149.2	125.4	113.4	103.5	97.5	97.5
55°	13236.1	8568.1	489.5	232.8	179.1	129.3	111.4	101.5	89.5	83.6	81.6
57.5°	13709.7	8203.9	374.1	193.0	145.3	107.4	97.5	85.6	71.6	61.7	61.7
60°	13948.5	7674.6	286.5	159.2	111.4	85.6	79.6	63.7	49.7	41.8	39.8
62.5°	13661.9	6972.3	216.9	125.4	83.6	63.7	53.7	45.8	31.8	23.9	23.9
63°	13484.9	6769.3	208.9	119.4	77.6	59.7	49.7	41.8	27.9	21.9	19.9
65°	12293.0	5883.8	171.1	95.5	61.7	41.8	33.8	29.8	19.9	9.9	8.0
67.5°	9761.9	4500.9	135.3	71.6	43.8	29.8	19.9	17.9	6.0	0.0	0.0
70°	6600.2	2907.1	105.5	51.7	29.8	17.9	9.9	8.0	2.0	0.0	0.0
72.5°	3442.3	1490.4	81.6	37.8	17.9	11.9	6.0	2.0	0.0	0.0	0.0
75°	1217.8	507.4	59.7	23.9	11.9	6.0	2.0	0.0	0.0	0.0	0.0
77.5°	368.1	189.0	37.8	17.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	129.3	69.6	21.9	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.7	33.8	13.9	9.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	35.8	21.9	11.9	9.9	6.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	15.9	11.9	9.9	8.0	4.0	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)