

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: P454677

Luminaire Tested: **GALN-SA5D-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454677
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-SA5D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 28443 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

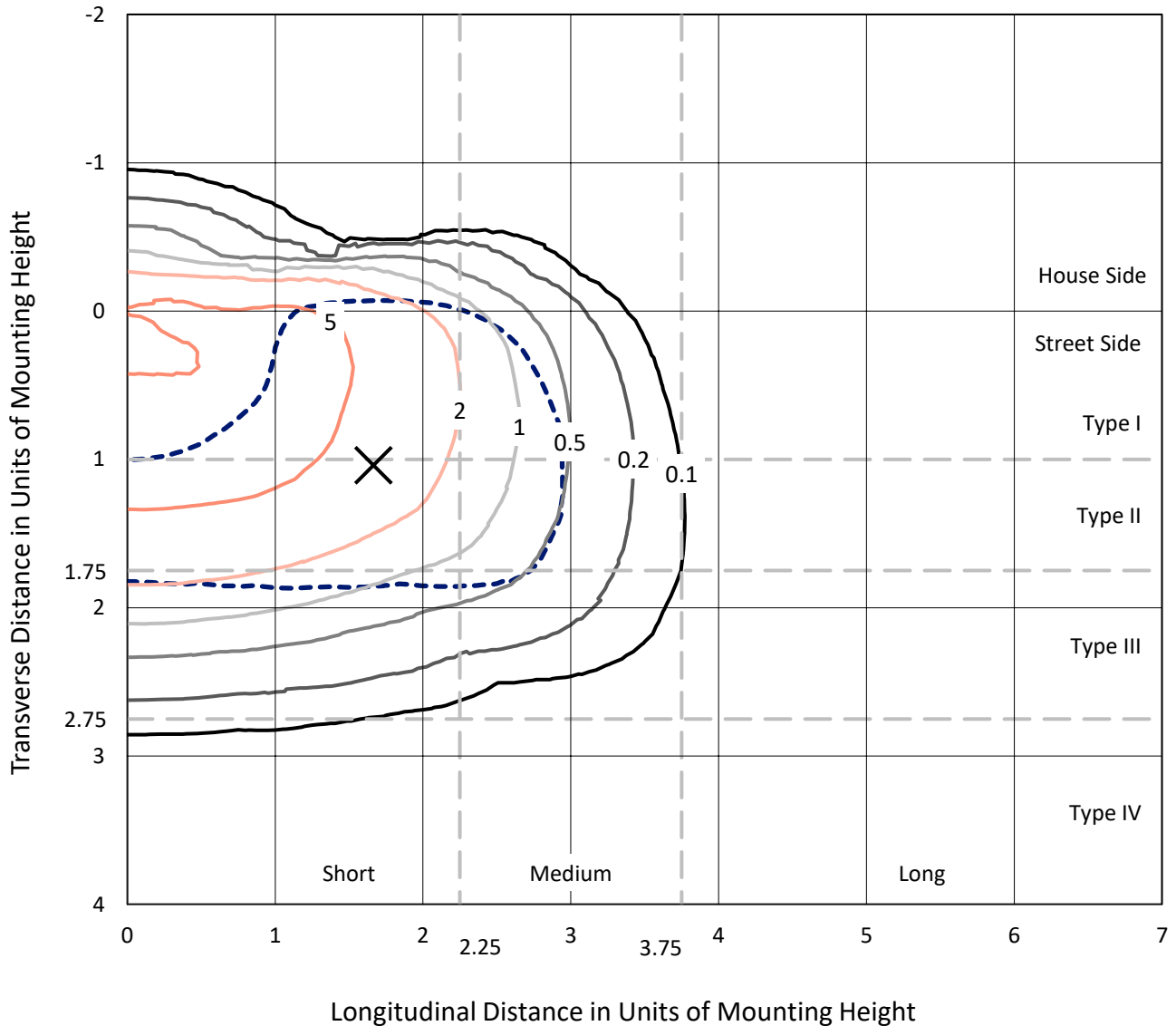
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

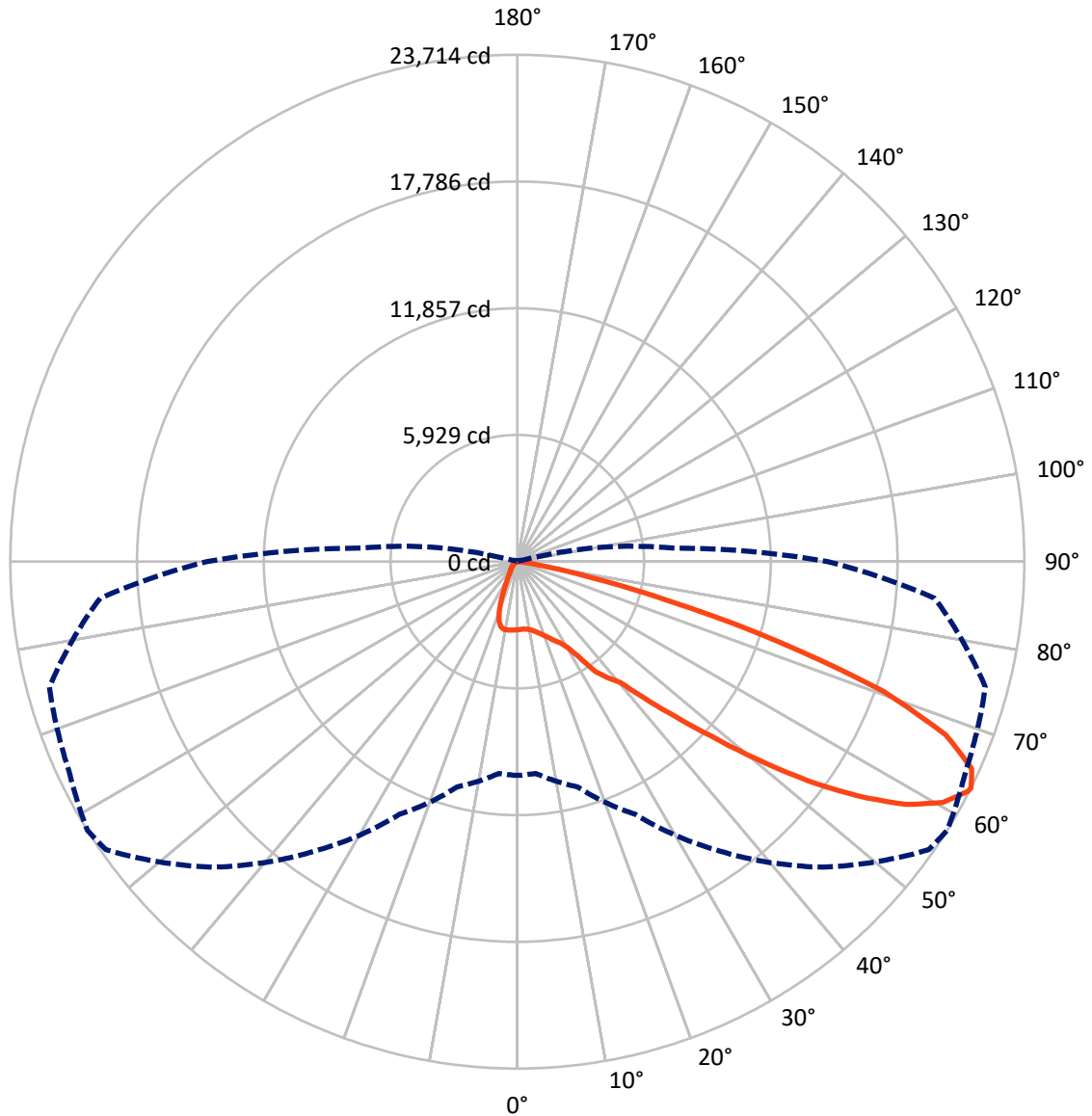
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2945.1	0.0	2945.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25497.9	0.0	25497.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	28443.0	0.0	28443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	1.0
10°-20°	811.9	2.9
20°-30°	1409.1	5.0
30°-40°	2589.4	9.1
40°-50°	4874.4	17.1
50°-60°	8337.3	29.3
60°-70°	7983.0	28.1
70°-80°	2035.7	7.2
80°-90°	104.1	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°	28443.0	100.0
0°-180°	28443.0	100.0

Coefficient of Utilization



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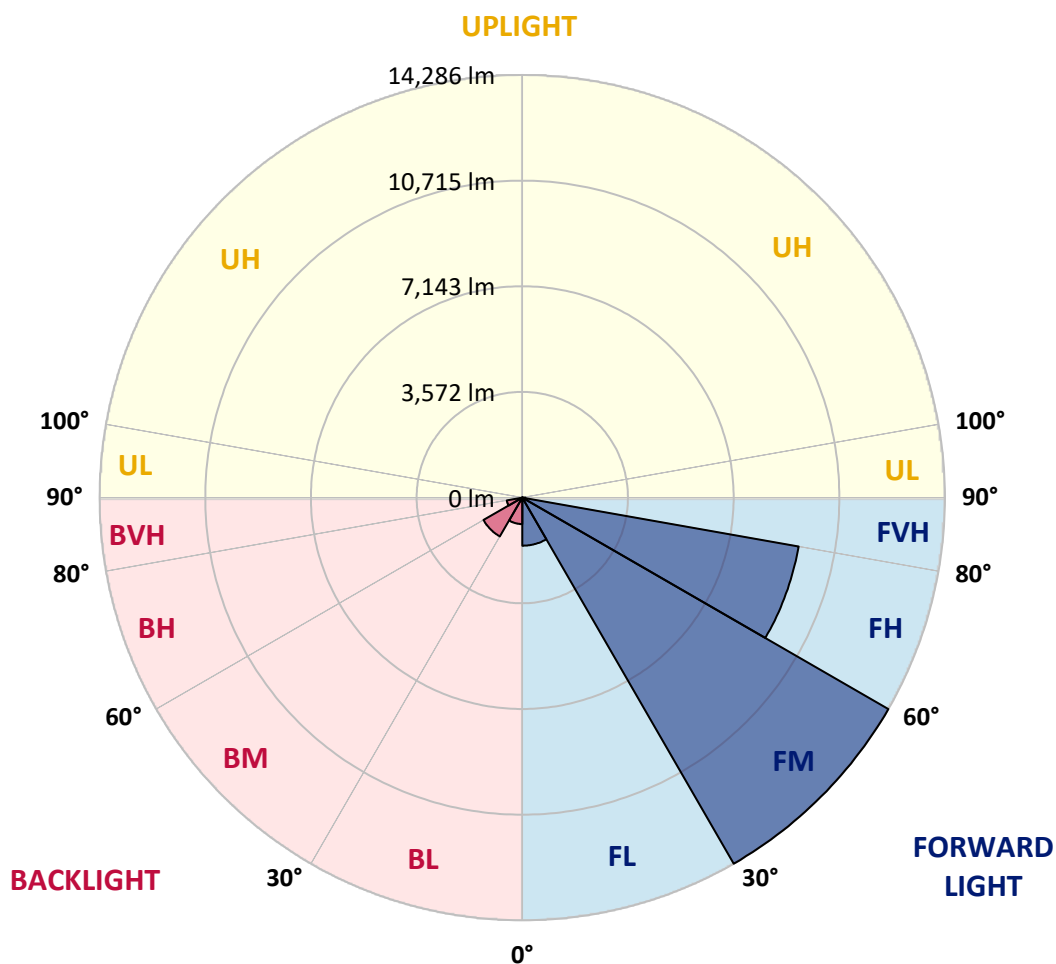
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.9	5.7			
FM	(30°-60°)	14286.4	50.2			
FH	(60°-80°)	9485.6	33.3			G4/12000
FVH	(80°-90°)	100.1	0.4			G2/225
BL	(0°-30°)	893.2	3.1	B2/1000		
BM	(30°-60°)	1514.8	5.3	B2/2500		
BH	(60°-80°)	533.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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°	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3
2.5°	3105.1	3115.8	3126.5	3130.8	3145.8	3160.7	3171.5	3169.3	3186.4	3195.0	3195.0
5°	2980.9	2980.9	3008.7	3034.4	3077.2	3120.1	3160.7	3169.3	3201.4	3231.4	3242.1
7.5°	2875.9	2882.4	2903.8	2950.9	3008.7	3083.7	3165.0	3184.3	3240.0	3306.4	3334.2
10°	2826.7	2831.0	2858.8	2908.1	2980.9	3083.7	3197.2	3233.6	3319.2	3424.1	3462.7
12.5°	2816.0	2822.4	2850.2	2905.9	2989.4	3113.6	3267.8	3306.4	3430.6	3565.5	3623.3
15°	2835.3	2839.5	2867.4	2927.3	3019.4	3167.2	3362.0	3415.6	3563.3	3719.7	3794.6
17.5°	2903.8	2899.5	2918.8	2968.0	3070.8	3233.6	3475.5	3539.8	3713.2	3927.4	3976.6
20°	3195.0	3167.2	3150.0	3107.2	3147.9	3327.8	3612.6	3706.8	3921.0	4139.4	4173.6
22.5°	3822.4	3760.3	3638.3	3471.3	3342.8	3456.3	3777.5	3886.7	4162.9	4377.1	4377.1
25°	4621.2	4542.0	4419.9	4055.9	3741.1	3668.3	3963.8	4100.8	4426.3	4642.6	4571.9
27.5°	5621.2	5559.1	5321.4	4897.4	4415.6	4038.7	4180.1	4306.4	4659.7	4921.0	4773.2
30°	6435.0	6405.0	6210.1	5831.1	5300.0	4749.7	4582.7	4666.2	4970.3	5272.2	5120.2
32.5°	7122.4	7122.4	6923.2	6569.9	6073.1	5584.8	5265.8	5325.7	5617.0	5966.0	5683.4
35°	7878.3	7852.6	7692.0	7355.8	6799.0	6368.6	6238.0	6319.4	6582.8	6841.9	6145.9
37.5°	8672.8	8664.2	8497.2	8171.7	7717.7	7175.9	6869.7	6891.1	7026.0	7184.5	6687.7
40°	9535.8	9548.6	9330.2	9128.9	8700.6	8146.0	7559.2	7424.3	7550.7	7998.2	7687.7
42.5°	10555.1	10525.1	10430.9	10156.8	9812.0	9480.1	8775.6	8726.3	8837.7	9317.4	8981.2
45°	11739.3	11782.1	11619.4	11467.3	11236.1	10959.8	10370.9	10285.3	10407.3	11152.6	10675.0
47.5°	12925.7	12885.0	12989.9	12962.1	13086.3	12880.7	12360.3	12184.7	12478.1	13184.8	12482.4
50°	13829.3	13874.3	14092.7	14411.8	14945.0	15060.7	14561.7	14501.8	14632.4	15086.4	14099.2
52.5°	14416.1	14566.0	14908.6	15728.8	16690.3	17437.7	17058.6	17026.5	16973.0	17095.0	15645.3
55°	14799.4	14951.5	15399.0	16606.8	18262.1	19476.3	19495.6	19358.5	19005.2	18917.4	17090.7
57.5°	14563.9	14593.8	15232.0	16846.6	19133.7	20930.3	21559.9	21422.8	20769.7	20437.8	18367.0
60°	13090.6	13152.7	14041.3	15938.7	18754.6	21405.7	22928.3	22866.2	22150.9	21776.2	19360.7
62.5°	10480.2	10660.0	11574.4	13690.2	16992.2	20604.8	23482.9	23658.5	23101.7	22585.6	19673.3
63°	10000.5	9942.7	10908.4	13034.9	16525.4	20208.7	23491.5	23714.2	23144.6	22662.7	19587.6
65°	7402.9	7576.4	8203.8	10278.9	13752.3	18364.9	22962.5	23356.6	22986.1	22322.2	18639.0
67.5°	4156.5	4147.9	4841.8	6726.2	9625.7	14405.4	20763.3	21596.3	21519.2	20030.9	15450.4
70°	2034.4	2066.5	2351.3	3486.2	5582.7	9938.4	17253.5	18152.9	18180.7	15733.1	10683.6
72.5°	920.8	935.8	1139.2	1698.2	2869.5	5291.5	11889.2	12747.9	12589.5	10026.2	5899.6
75°	486.1	518.2	627.4	854.4	1383.4	2182.1	6467.1	7298.0	6966.1	4580.5	2171.4
77.5°	359.8	370.5	426.1	543.9	740.9	850.1	2790.3	3319.2	3109.4	1657.5	719.5
80°	263.4	272.0	316.9	385.5	466.8	432.6	1051.4	1205.6	1081.4	563.2	220.6
82.5°	160.6	162.7	231.3	287.0	293.4	242.0	346.9	372.6	389.7	316.9	119.9
85°	57.8	72.8	156.3	207.7	173.5	122.1	145.6	160.6	175.6	201.3	70.7
87.5°	6.4	8.6	74.9	100.6	49.3	45.0	53.5	60.0	64.2	74.9	34.3
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°	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3	3184.3
2.5°	3203.6	3212.1	3205.7	3195.0	3192.9	3186.4	3173.6	3173.6	3173.6	3177.9	3173.6
5°	3250.7	3257.1	3242.1	3220.7	3197.2	3167.2	3135.1	3115.8	3113.6	3109.4	3098.6
7.5°	3340.6	3349.2	3314.9	3263.5	3199.3	3126.5	3058.0	2993.7	2963.7	2940.2	2940.2
10°	3471.3	3479.8	3411.3	3319.2	3190.7	3043.0	2880.2	2732.5	2616.8	2563.3	2550.4
12.5°	3627.6	3631.9	3518.4	3357.8	3145.8	2860.9	2514.0	2190.7	1965.8	1863.0	1852.3
15°	3798.9	3768.9	3619.0	3372.7	3017.3	2486.2	1886.6	1490.4	1257.0	1188.5	1214.2
17.5°	3972.3	3916.7	3696.1	3349.2	2728.2	1886.6	1267.7	1017.2	944.4	925.1	925.1
20°	4135.1	4058.0	3751.8	3246.4	2227.1	1299.8	940.1	880.1	867.3	854.4	856.6
22.5°	4297.8	4180.1	3801.0	3017.3	1659.6	929.4	841.6	822.3	805.2	788.0	785.9
25°	4456.3	4293.6	3820.3	2593.3	1130.7	798.8	768.8	743.1	708.8	689.5	685.3
27.5°	4621.2	4430.6	3807.5	2057.9	824.4	715.2	685.3	648.9	608.2	573.9	573.9
30°	4938.1	4691.9	3762.5	1479.7	693.8	629.6	591.0	533.2	488.2	454.0	451.8
32.5°	5370.7	5032.4	3608.3	1040.7	616.7	554.6	496.8	432.6	385.5	359.8	359.8
35°	5756.2	5375.0	3319.2	766.6	554.6	481.8	411.2	349.1	312.6	295.5	289.1
37.5°	6342.9	5876.1	2920.9	623.2	494.7	417.6	344.8	287.0	257.0	244.1	244.1
40°	7223.0	6488.5	2432.7	546.1	436.9	355.5	287.0	242.0	218.4	203.4	203.4
42.5°	8315.2	7238.0	1938.0	490.4	383.3	306.2	239.8	205.6	184.2	173.5	171.3
45°	9690.0	8028.2	1492.6	439.0	340.5	261.3	203.4	173.5	152.0	145.6	147.8
47.5°	11124.7	8724.2	1156.4	394.0	295.5	220.6	173.5	149.9	134.9	126.3	126.3
50°	12349.6	9203.9	878.0	342.6	261.3	186.3	152.0	134.9	122.1	117.8	115.6
52.5°	13373.2	9343.1	672.4	297.7	229.1	160.6	134.9	122.1	111.4	104.9	104.9
55°	14244.8	9221.0	526.8	250.5	192.7	139.2	119.9	109.2	96.4	89.9	87.8
57.5°	14754.4	8829.1	402.6	207.7	156.3	115.6	104.9	92.1	77.1	66.4	66.4
60°	15011.4	8259.5	308.4	171.3	119.9	92.1	85.7	68.5	53.5	45.0	42.8
62.5°	14703.0	7503.6	233.4	134.9	89.9	68.5	57.8	49.3	34.3	25.7	25.7
63°	14512.5	7285.1	224.8	128.5	83.5	64.2	53.5	45.0	30.0	23.6	21.4
65°	13229.7	6332.2	184.2	102.8	66.4	45.0	36.4	32.1	21.4	10.7	8.6
67.5°	10505.8	4843.9	145.6	77.1	47.1	32.1	21.4	19.3	6.4	0.0	0.0
70°	7103.1	3128.6	113.5	55.7	32.1	19.3	10.7	8.6	2.1	0.0	0.0
72.5°	3704.7	1603.9	87.8	40.7	19.3	12.8	6.4	2.1	0.0	0.0	0.0
75°	1310.6	546.1	64.2	25.7	12.8	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	396.2	203.4	40.7	19.3	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	139.2	74.9	23.6	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.5	36.4	15.0	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.5	23.6	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	27.8	17.1	12.8	10.7	8.6	4.3	2.1	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)