

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: P459052

Luminaire Tested: **GALN-SA5C-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24518 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

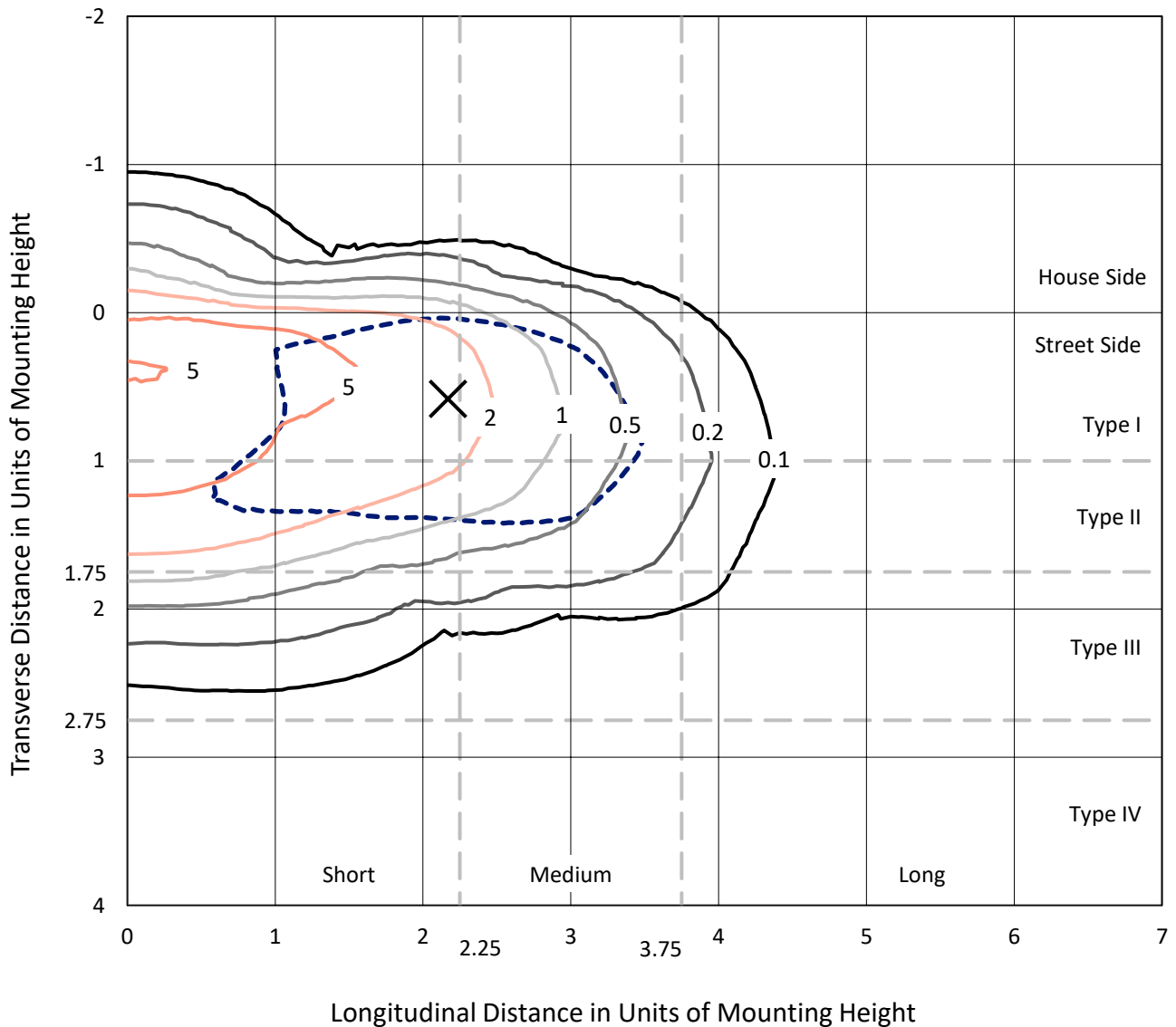
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

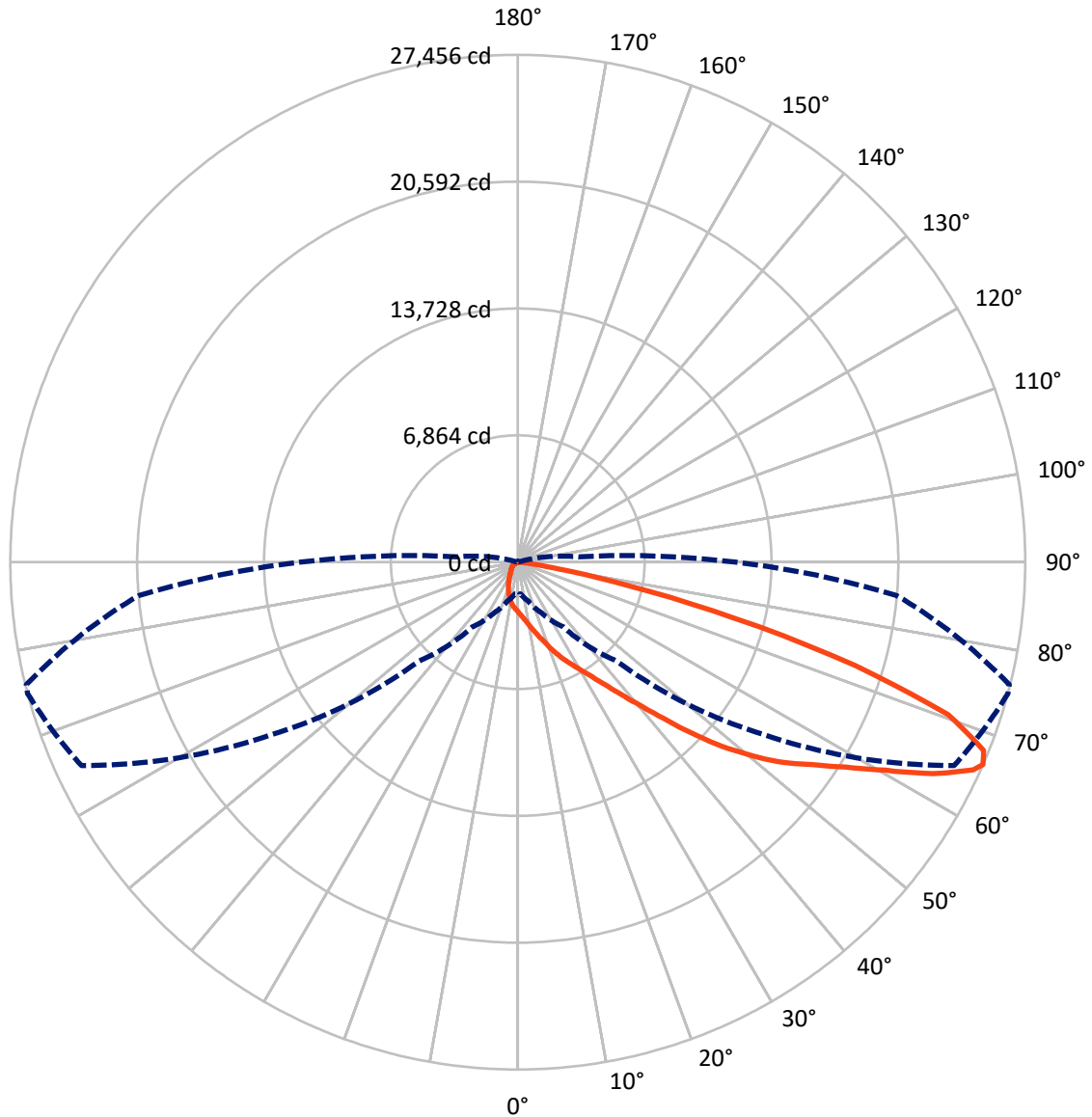
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1513.6	0.0	1513.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	23004.4	0.0	23004.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	24518.0	0.0	24518.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.6	1.1
10°-20°	761.1	3.1
20°-30°	1314.3	5.4
30°-40°	2370.7	9.7
40°-50°	4282.7	17.5
50°-60°	6676.8	27.2
60°-70°	6342.7	25.9
70°-80°	2377.1	9.7
80°-90°	134.1	0.5
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°	24518.0	100.0
0°-180°	24518.0	100.0

**Coefficient of Utilization**



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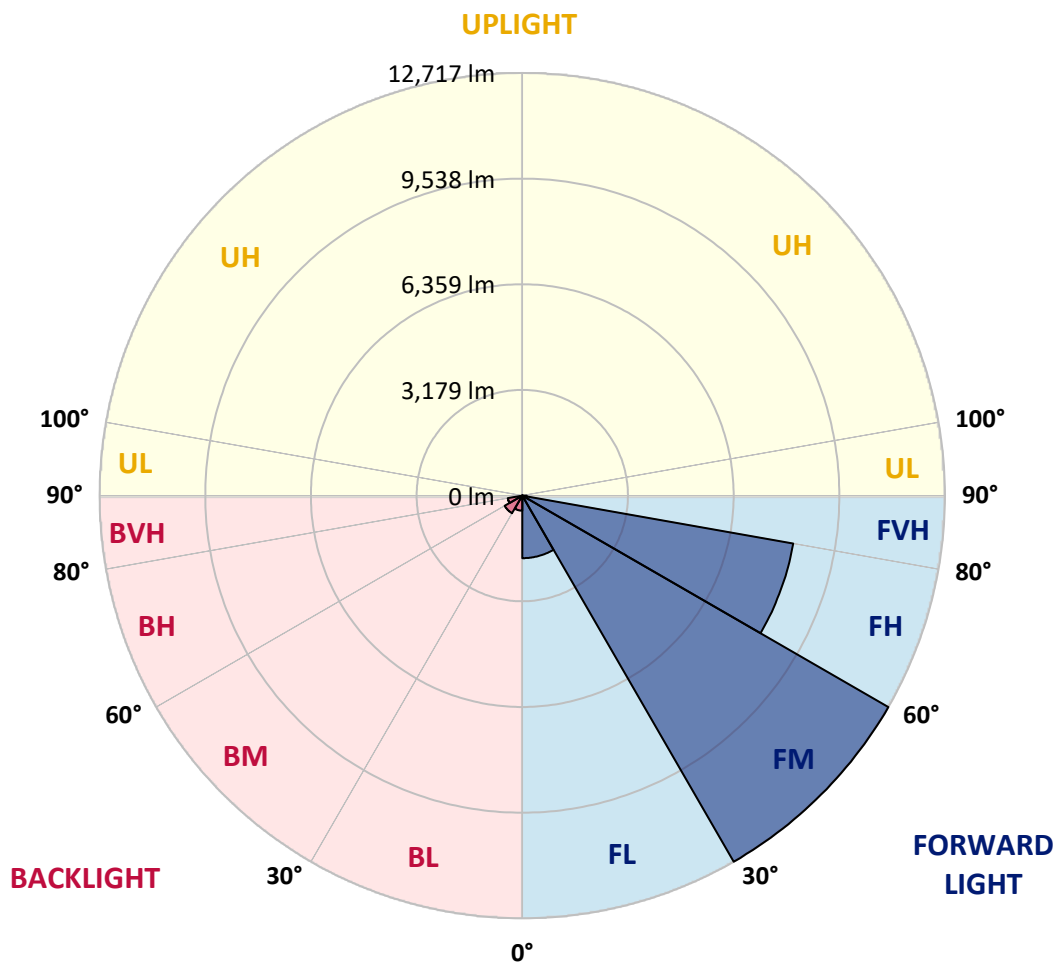
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.0	7.7			
FM (30°-60°)	12717.5	51.9			
FH (60°-80°)	8277.7	33.8			G4/12000
FVH (80°-90°)	127.2	0.5			G2/225
BL (0°-30°)	452.0	1.8	B1/500		
BM (30°-60°)	612.7	2.5	B1/1000		
BH (60°-80°)	442.0	1.8	B1/500		G1/500
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3
2.5°	3203.4	3163.5	3176.2	3158.1	3116.4	3054.7	3000.4	2922.4	2844.4	2831.8	2744.7
5°	3625.8	3614.9	3600.4	3547.9	3518.8	3424.6	3312.2	3178.0	3016.7	2987.7	2829.9
7.5°	3914.1	3908.6	3915.9	3888.7	3863.3	3778.1	3658.4	3475.3	3225.2	3208.8	2946.0
10°	4008.3	4022.8	4050.0	4093.5	4133.4	4106.2	4015.6	3787.2	3495.3	3448.1	3078.3
12.5°	3953.9	3970.3	4035.5	4151.6	4280.3	4354.6	4318.3	4151.6	3781.7	3743.6	3227.0
15°	3814.4	3834.3	3926.8	4106.2	4336.5	4546.8	4637.4	4517.8	4115.3	4053.7	3406.4
17.5°	3607.7	3636.7	3769.0	4006.5	4322.0	4684.5	4940.2	4900.3	4470.6	4412.6	3602.2
20°	3451.8	3473.5	3585.9	3857.9	4260.3	4760.7	5228.4	5340.8	4909.3	4809.6	3832.5
22.5°	3555.1	3562.4	3600.4	3763.6	4149.7	4780.6	5482.2	5799.5	5375.3	5286.4	4071.8
25°	4060.9	3988.4	3950.3	3914.1	4126.2	4762.5	5712.5	6278.1	5839.4	5745.1	4309.3
27.5°	4858.6	4826.0	4633.8	4376.4	4327.4	4786.1	5864.7	6731.3	6276.3	6174.8	4541.3
30°	5727.0	5670.8	5552.9	5175.8	4796.9	4952.9	5975.3	7171.8	6793.0	6658.8	4753.4
32.5°	6524.6	6560.9	6385.0	5997.1	5558.4	5308.2	6118.6	7652.3	7385.8	7219.0	5000.0
35°	7454.7	7527.2	7257.1	6885.4	6372.4	5950.0	6397.7	8194.3	8138.1	7927.8	5380.7
37.5°	8399.2	8442.7	8277.7	7755.6	7293.3	6765.8	6923.5	8863.3	9064.5	8885.0	5835.7
40°	9193.2	9253.1	9131.6	8667.5	8174.4	7710.3	7686.7	9592.1	10166.8	9981.9	6513.8
42.5°	9800.6	9845.9	9849.5	9521.4	9077.2	8866.9	8660.2	10522.1	11548.2	11334.3	7300.6
45°	10567.4	10632.7	10594.6	10371.6	10039.9	10001.8	9894.8	11646.1	13201.6	12931.4	8321.2
47.5°	11753.1	11796.6	11702.3	11439.4	11102.2	11162.1	11098.6	12906.1	14887.6	14655.5	9378.2
50°	12576.1	12648.6	12782.8	12887.9	12643.2	12422.0	12233.5	14082.6	16488.4	16279.9	10458.6
52.5°	12567.1	12686.7	13110.9	13640.3	14175.1	14108.0	13566.0	15382.5	18016.6	17759.2	11473.9
55°	11720.4	11952.5	12576.1	13515.2	14996.3	15734.2	15487.6	16887.2	19336.4	19162.4	12650.4
57.5°	9972.8	10114.2	10980.8	12293.3	14537.7	16499.2	17713.9	18926.7	20919.1	20837.5	14477.9
60°	6707.7	6771.2	7886.1	9508.7	12376.7	15736.0	19345.5	21394.1	22868.0	22828.1	16611.6
62.5°	3843.4	3870.6	4679.1	6047.8	8807.1	13335.7	19483.3	24438.0	25204.8	25226.6	19080.8
65°	2068.5	2083.0	2735.7	3549.7	5358.9	9505.1	17519.9	26105.8	27093.9	27135.6	20610.9
66°	1785.7	1716.8	2177.3	3025.7	4264.0	7565.3	16278.1	26046.0	27456.4	27411.1	20556.5
67.5°	1357.9	1419.5	1738.6	2326.0	3159.9	5378.9	13439.1	24887.6	27180.9	27039.5	19720.8
70°	971.7	997.1	1238.2	1658.8	2151.9	2951.4	8587.7	20670.7	24704.4	24514.1	17180.9
72.5°	627.3	654.5	877.4	1200.1	1555.5	1611.7	4807.8	14934.7	19046.4	19019.2	12938.7
75°	447.8	473.2	580.1	859.3	1169.3	997.1	2315.1	10065.2	12108.4	12026.8	8004.0
77.5°	324.5	337.2	388.0	562.0	835.7	714.3	1073.2	5375.3	6027.9	6312.5	3537.0
80°	186.7	197.6	270.1	342.6	565.6	487.7	513.1	2157.4	2224.4	2117.5	1105.9
82.5°	92.5	105.1	161.3	233.9	353.5	328.1	235.7	649.0	685.3	667.1	279.2
85°	21.8	27.2	90.6	154.1	172.2	146.8	114.2	190.4	235.7	230.2	107.0
87.5°	1.8	3.6	32.6	27.2	29.0	48.9	39.9	48.9	76.1	70.7	38.1
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°	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3
2.5°	2704.9	2670.4	2570.7	2472.8	2391.2	2306.0	2228.1	2182.7	2164.6	2144.7	2153.7
5°	2742.9	2659.5	2458.3	2284.3	2113.8	1968.8	1852.8	1778.5	1742.2	1736.8	1727.7
7.5°	2793.7	2650.5	2338.6	2066.7	1843.7	1682.4	1550.0	1443.1	1410.4	1381.4	1357.9
10°	2855.3	2634.2	2190.0	1838.3	1600.8	1397.7	1223.7	1096.8	1031.5	1013.4	1026.1
12.5°	2920.6	2603.3	2034.1	1628.0	1354.2	1095.0	933.6	870.2	852.1	844.8	846.6
15°	2985.9	2565.3	1870.9	1424.9	1078.7	873.8	799.5	783.2	775.9	772.3	768.7
17.5°	3045.7	2503.6	1687.8	1227.3	873.8	746.9	719.7	705.2	690.7	685.3	676.2
20°	3116.4	2432.9	1522.8	1006.2	739.7	676.2	643.6	616.4	594.6	580.1	578.3
22.5°	3183.5	2342.3	1350.6	833.9	674.4	607.3	554.7	525.7	500.4	482.2	487.7
25°	3219.7	2231.7	1196.5	727.0	614.6	538.4	480.4	444.2	417.0	407.9	406.1
27.5°	3219.7	2095.7	1046.0	665.3	560.2	476.8	417.0	382.5	364.4	351.7	353.5
30°	3194.3	1945.2	906.5	618.2	513.1	422.4	366.2	335.4	320.9	311.8	310.0
32.5°	3174.4	1802.0	786.8	572.9	464.1	375.3	326.3	302.8	288.3	279.2	279.2
35°	3205.2	1678.7	694.3	527.6	418.8	339.0	295.5	273.7	259.2	252.0	250.2
37.5°	3286.8	1566.3	623.6	478.6	377.1	308.2	273.7	248.4	233.9	224.8	221.2
40°	3488.0	1502.9	571.1	433.3	337.2	282.8	248.4	224.8	206.7	197.6	195.8
42.5°	3810.7	1504.7	520.3	391.6	306.4	261.1	226.6	199.4	179.5	170.4	168.6
45°	4296.6	1573.6	480.4	351.7	279.2	237.5	203.0	174.0	155.9	146.8	146.8
47.5°	4878.5	1707.8	446.0	317.3	253.8	215.7	179.5	150.5	132.3	125.1	125.1
50°	5509.4	1881.8	411.5	281.0	232.1	192.2	154.1	130.5	116.0	110.6	110.6
52.5°	6153.0	2092.1	377.1	252.0	208.5	166.8	132.3	116.0	103.3	99.7	97.9
55°	6997.8	2360.4	340.8	221.2	183.1	143.2	117.8	101.5	87.0	81.6	79.8
57.5°	8297.7	2764.7	300.9	194.0	150.5	119.7	101.5	85.2	68.9	59.8	58.0
60°	9865.8	3257.8	259.2	170.4	121.5	97.9	81.6	65.3	50.8	39.9	38.1
62.5°	11334.3	3571.4	219.4	143.2	96.1	74.3	58.0	48.9	36.3	25.4	23.6
65°	11983.3	3466.3	181.3	116.0	76.1	52.6	38.1	34.4	21.8	10.9	9.1
66°	11767.6	3310.4	166.8	105.1	68.9	45.3	32.6	29.0	16.3	5.4	5.4
67.5°	11131.2	2942.3	145.0	90.6	59.8	36.3	25.4	21.8	9.1	1.8	0.0
70°	9537.7	2380.3	114.2	67.1	43.5	25.4	14.5	10.9	5.4	0.0	0.0
72.5°	7325.9	1773.0	90.6	50.8	30.8	14.5	7.3	3.6	5.4	0.0	0.0
75°	4488.8	1013.4	70.7	38.1	19.9	9.1	5.4	0.0	5.4	1.8	0.0
77.5°	1992.4	455.0	47.1	25.4	14.5	7.3	3.6	0.0	3.6	1.8	0.0
80°	504.0	148.7	27.2	18.1	10.9	5.4	1.8	0.0	3.6	3.6	1.8
82.5°	137.8	54.4	19.9	14.5	9.1	5.4	1.8	0.0	3.6	3.6	3.6
85°	54.4	25.4	18.1	14.5	10.9	5.4	1.8	0.0	3.6	3.6	3.6
87.5°	25.4	18.1	18.1	16.3	12.7	5.4	1.8	0.0	3.6	1.8	3.6
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)