

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: P454414

Luminaire Tested: **GALN-SA5C-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25671 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

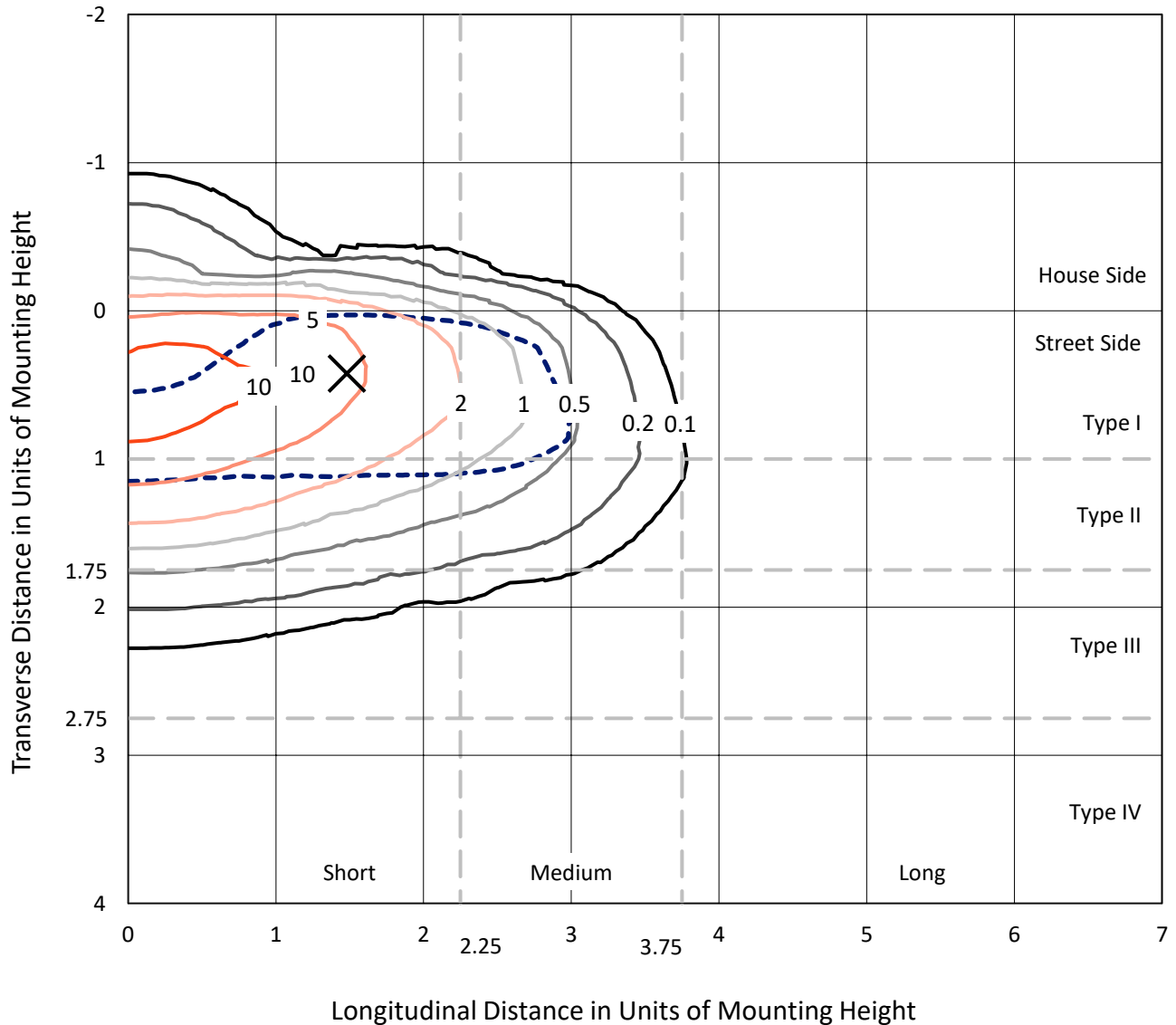
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

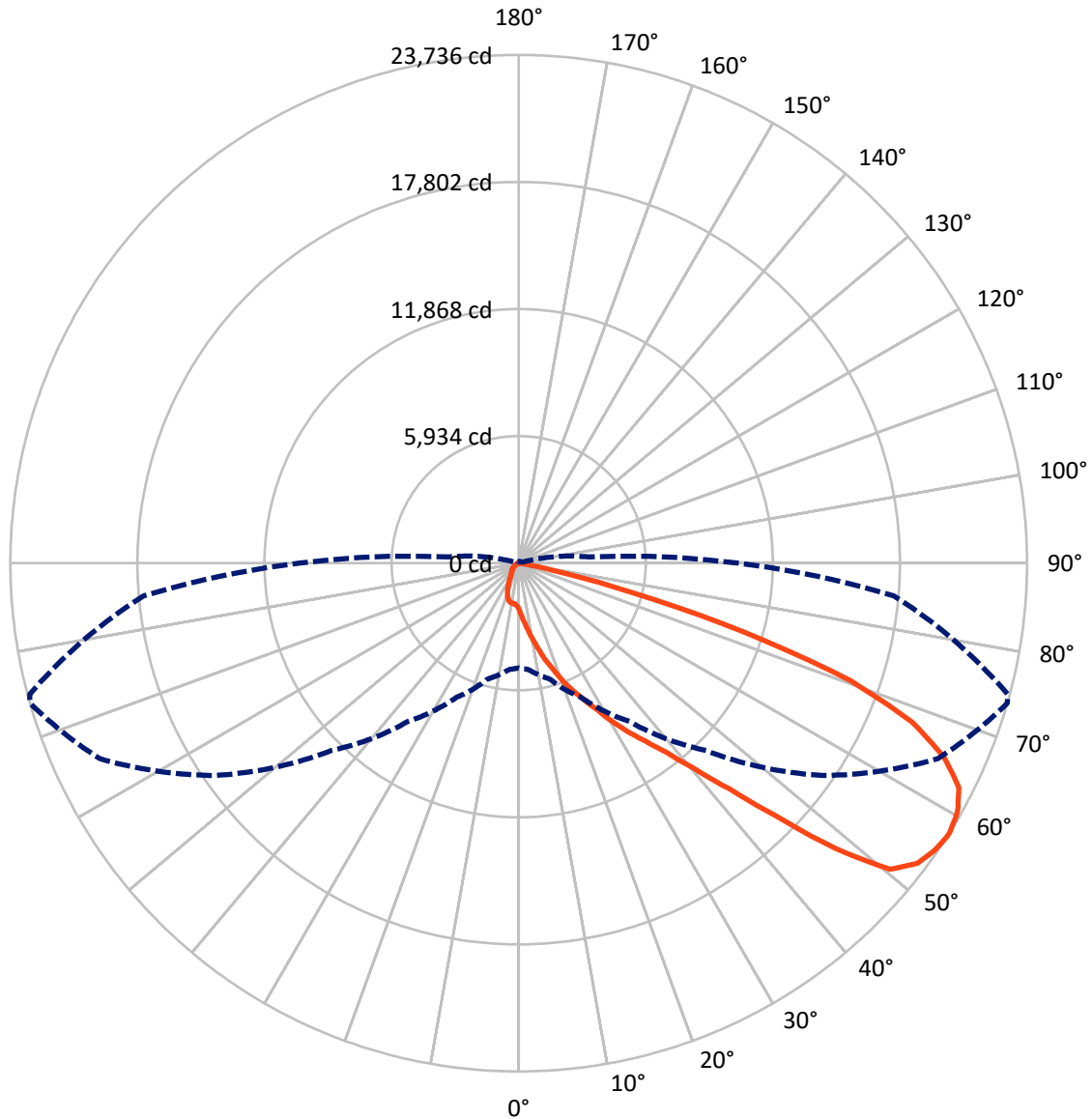
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1480.6	0.0	1480.6
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	24190.4	0.0	24190.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	25671.0	0.0	25671.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	1.0
10°-20°	1022.8	4.0
20°-30°	2188.6	8.5
30°-40°	4022.7	15.7
40°-50°	6166.8	24.0
50°-60°	6523.7	25.4
60°-70°	4260.1	16.6
70°-80°	1164.0	4.5
80°-90°	62.7	0.2
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°	25671.0	100.0
0°-180°	25671.0	100.0

**Coefficient of Utilization**



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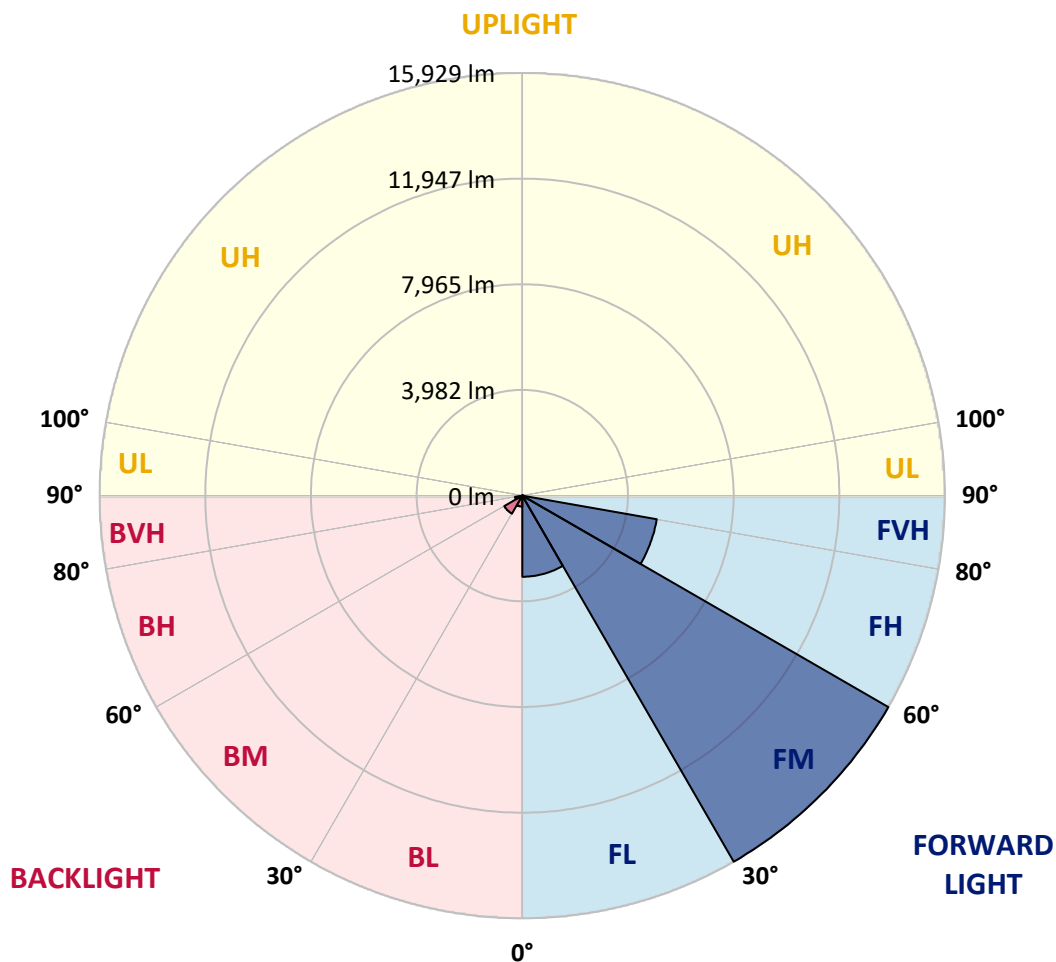
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3057.4	11.9			
FM	(30°-60°)	15929.3	62.1			
FH	(60°-80°)	5146.2	20.0			G3/7500
FVH	(80°-90°)	57.5	0.2			G1/100
BL	(0°-30°)	413.6	1.6	B1/500		
BM	(30°-60°)	783.9	3.1	B1/1000		
BH	(60°-80°)	278.0	1.1	B1/500		G1/500
BVH	(80°-90°)	5.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9
2.5°	3146.0	3117.6	3060.9	3041.4	2958.1	2828.7	2715.3	2562.9	2442.4	2430.0	2284.6
5°	4213.0	4149.2	4122.6	3995.0	3794.7	3606.8	3284.2	3039.7	2757.8	2736.6	2444.1
7.5°	5241.0	5152.3	5125.8	5005.2	4771.3	4475.3	4057.0	3612.1	3165.5	3124.7	2658.6
10°	5985.4	5997.8	5949.9	5870.2	5680.5	5379.2	4863.4	4255.5	3619.2	3567.8	2899.6
12.5°	6518.9	6517.1	6526.0	6524.2	6423.2	6194.5	5652.2	4952.1	4119.0	4018.0	3176.1
15°	6866.3	6871.6	6898.2	6990.3	7001.0	6859.2	6407.2	5618.5	4698.6	4572.8	3475.7
17.5°	7217.2	7254.4	7296.9	7383.8	7461.8	7405.1	7086.0	6313.3	5223.2	5129.3	3796.5
20°	7796.8	7848.2	7823.3	7876.5	7917.3	7922.6	7676.2	6954.9	5859.5	5701.8	4163.4
22.5°	8723.7	8721.9	8658.1	8562.4	8482.7	8479.1	8255.8	7614.2	6437.3	6284.9	4532.0
25°	9895.3	9900.6	9776.5	9503.6	9305.1	9062.2	8805.2	8192.0	7055.9	6868.0	4920.2
27.5°	11238.7	11205.1	11017.2	10641.4	10248.0	9833.2	9462.8	8863.7	7711.7	7555.7	5365.0
30°	12445.7	12433.3	12213.6	11754.5	11237.0	10820.5	10283.4	9705.6	8560.7	8369.2	5863.1
32.5°	13569.4	13587.2	13282.3	12807.3	12307.5	11827.2	11260.0	10510.3	9393.7	9122.5	6405.4
35°	14446.8	14464.5	14149.0	13753.8	13239.8	12841.0	12300.4	11368.1	10216.1	9987.4	7029.3
37.5°	14914.7	14937.7	14755.2	14457.4	14136.6	13936.3	13433.0	12472.3	11215.7	11077.5	7766.6
40°	15003.3	15029.9	14950.1	14870.4	14852.7	14996.2	14849.1	13773.3	12601.7	12385.5	8865.5
42.5°	14737.4	14772.9	14808.3	14985.6	15347.2	15873.6	16385.8	15538.6	14386.5	14095.8	10209.0
45°	14039.1	14035.6	14175.6	14634.6	15444.6	16568.3	17991.6	17748.7	16818.2	16472.6	12107.2
47.5°	12844.5	12826.8	13129.9	13783.9	15045.8	16695.9	19301.4	20432.1	19921.7	19602.7	14147.2
50°	11024.3	11111.1	11587.9	12500.7	14055.1	16309.6	19705.5	22192.1	22468.6	22130.1	15795.6
52.5°	8892.1	8888.6	9636.5	10875.4	12587.5	15458.8	19423.7	22511.2	23296.3	23037.6	16607.3
55°	6580.9	6627.0	7405.1	8654.6	10682.2	13906.2	18503.8	22183.3	23611.8	23429.3	17142.6
57°	4895.3	4976.9	5600.8	6923.0	9023.3	12369.5	17279.1	21596.6	23735.9	23636.6	17587.5
57.5°	4569.2	4572.8	5180.7	6382.4	8537.6	11779.3	16928.1	21352.0	23732.3	23677.4	17660.1
60°	2812.8	2901.4	3321.5	4314.0	6249.5	9193.4	14576.2	19946.5	23548.0	23627.8	17970.3
62.5°	1683.8	1721.0	1993.9	2600.1	4028.6	6710.3	11928.2	18147.5	23067.7	23310.5	17949.0
65°	1082.9	1091.8	1215.9	1573.9	2518.6	4535.6	9191.6	15770.8	21825.2	22271.9	17247.2
67.5°	836.6	850.7	900.4	1033.3	1460.5	2825.2	6501.1	13234.5	19815.4	20391.4	15545.7
70°	742.6	749.7	767.4	810.0	966.0	1595.2	4044.6	10338.4	16431.9	16594.9	12165.7
72.5°	606.2	625.7	680.6	694.8	765.7	996.1	2250.9	6938.9	11040.2	11081.0	6806.0
75°	469.7	473.2	554.8	595.5	645.2	685.9	1004.9	3498.7	5303.0	5019.4	2623.1
77.5°	350.9	366.9	404.1	455.5	526.4	491.0	450.2	1318.7	1646.6	1616.4	762.1
80°	225.1	234.0	281.8	342.1	409.4	320.8	253.5	386.4	361.6	372.2	182.6
82.5°	113.4	115.2	180.8	278.3	260.5	161.3	159.5	157.7	134.7	132.9	85.1
85°	12.4	26.6	117.0	159.5	117.0	53.2	74.4	72.7	70.9	72.7	49.6
87.5°	1.8	1.8	19.5	23.0	16.0	17.7	21.3	23.0	28.4	26.6	21.3
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°	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9
2.5°	2213.7	2142.8	2011.7	1885.8	1791.9	1731.6	1653.6	1625.3	1584.5	1579.2	1559.7
5°	2309.4	2174.7	1946.1	1765.3	1620.0	1510.1	1414.4	1334.6	1270.8	1256.6	1263.7
7.5°	2445.9	2245.6	1926.6	1680.2	1478.2	1290.3	1137.9	1043.9	976.6	951.8	955.3
10°	2600.1	2339.6	1923.0	1589.8	1281.4	1051.0	884.4	801.1	762.1	747.9	732.0
12.5°	2782.7	2447.7	1914.2	1449.8	1065.2	838.3	719.6	670.0	632.7	622.1	622.1
15°	2988.3	2562.9	1871.6	1276.1	864.9	693.0	613.2	574.3	561.8	551.2	551.2
17.5°	3202.7	2676.3	1783.0	1061.7	717.8	593.8	544.1	521.1	503.4	491.0	491.0
20°	3447.3	2788.0	1641.2	872.0	606.2	529.9	491.0	464.4	450.2	439.6	436.0
22.5°	3679.5	2878.4	1460.5	716.0	528.2	476.8	441.3	413.0	398.8	393.5	393.5
25°	3920.5	2933.3	1242.4	592.0	482.1	432.5	393.5	370.4	358.0	354.5	352.7
27.5°	4154.5	2965.2	1051.0	517.5	439.6	391.7	354.5	336.8	324.3	320.8	322.6
30°	4438.1	2970.5	864.9	464.4	402.3	352.7	319.0	303.1	296.0	292.4	290.7
32.5°	4725.2	2963.4	726.7	432.5	366.9	319.0	290.7	278.3	272.9	267.6	267.6
35°	5047.8	2926.2	618.6	400.6	333.2	290.7	265.9	255.2	248.1	242.8	241.0
37.5°	5448.3	2906.7	556.5	365.1	303.1	264.1	241.0	230.4	225.1	218.0	216.2
40°	6079.3	2993.6	537.0	333.2	272.9	239.3	218.0	205.6	198.5	191.4	189.6
42.5°	6866.3	3146.0	505.1	301.3	246.4	216.2	195.0	180.8	168.4	159.5	156.0
45°	7885.4	3346.3	455.5	267.6	223.3	191.4	171.9	154.2	138.2	131.2	129.4
47.5°	8954.1	3539.5	411.2	241.0	198.5	170.1	148.9	129.4	115.2	109.9	108.1
50°	9609.9	3578.5	382.8	210.9	173.7	147.1	125.8	108.1	99.3	93.9	93.9
52.5°	9909.4	3516.4	343.8	184.3	150.7	129.4	108.1	93.9	88.6	85.1	83.3
55°	10118.6	3420.7	292.4	159.5	129.4	109.9	95.7	85.1	78.0	74.4	72.7
57°	10240.9	3291.3	253.5	140.0	111.7	95.7	85.1	76.2	69.1	62.0	62.0
57.5°	10246.2	3241.7	242.8	138.2	106.3	92.2	83.3	74.4	65.6	58.5	56.7
60°	10088.5	2901.4	195.0	117.0	85.1	78.0	69.1	58.5	46.1	39.0	37.2
62.5°	9581.6	2468.9	161.3	99.3	69.1	60.3	49.6	44.3	31.9	23.0	23.0
65°	8814.1	2002.8	138.2	79.8	56.7	44.3	33.7	31.9	19.5	10.6	8.9
67.5°	7704.6	1559.7	117.0	65.6	47.9	31.9	23.0	21.3	10.6	3.5	0.0
70°	5870.2	1063.4	97.5	53.2	35.4	23.0	16.0	12.4	7.1	1.8	0.0
72.5°	3383.5	584.9	81.5	40.8	26.6	17.7	12.4	7.1	7.1	0.0	0.0
75°	1208.8	251.7	62.0	30.1	21.3	14.2	8.9	3.5	5.3	1.8	0.0
77.5°	384.6	134.7	40.8	23.0	17.7	10.6	7.1	3.5	3.5	1.8	0.0
80°	113.4	70.9	24.8	19.5	12.4	8.9	5.3	1.8	3.5	1.8	0.0
82.5°	62.0	35.4	19.5	14.2	12.4	7.1	5.3	1.8	1.8	1.8	0.0
85°	31.9	21.3	16.0	14.2	12.4	7.1	5.3	1.8	0.0	1.8	1.8
87.5°	17.7	16.0	16.0	14.2	12.4	8.9	5.3	1.8	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)