

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: P454405

Luminaire Tested: **GALN-SA5C-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
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-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26375 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

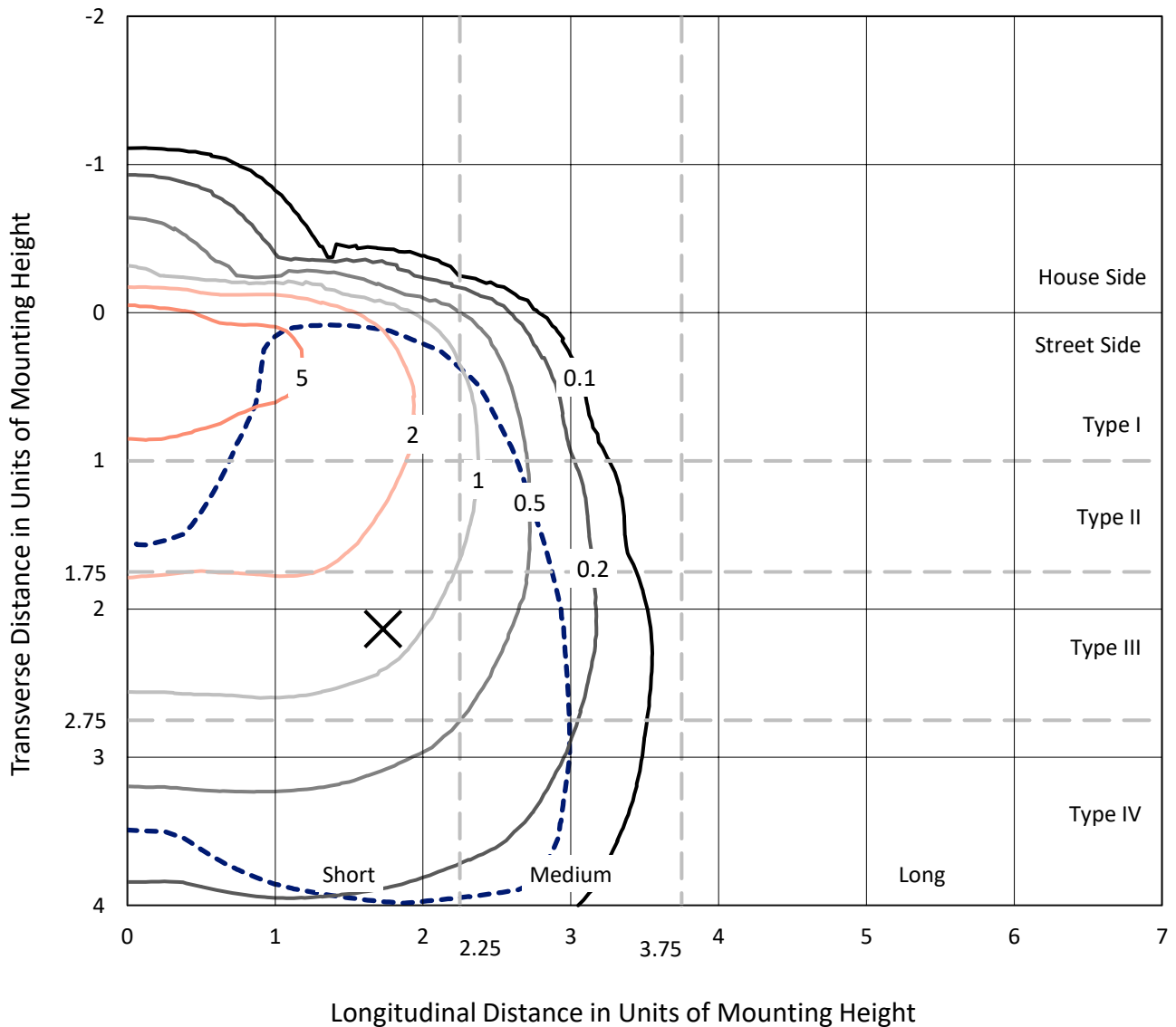
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

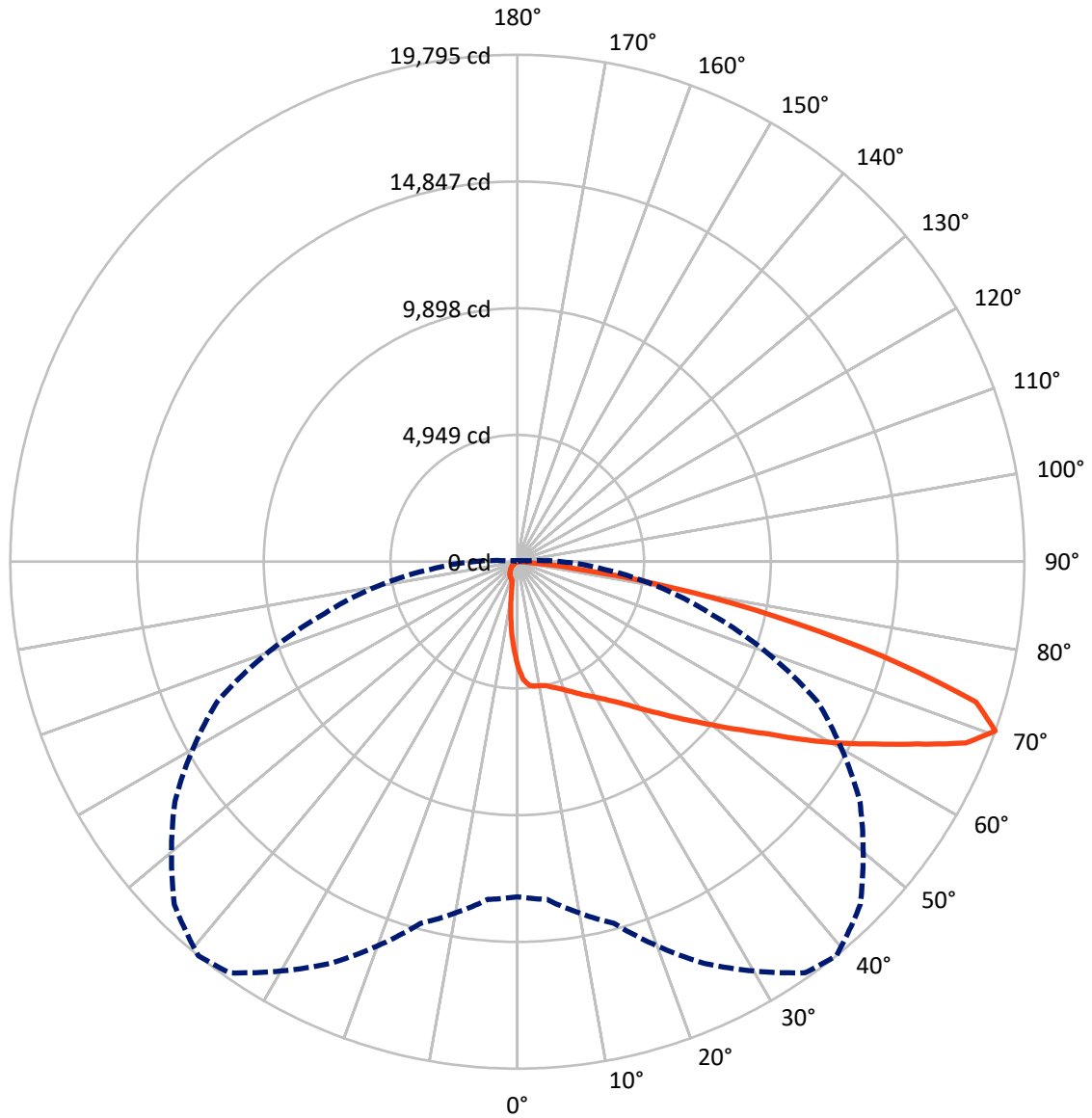
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1719.8	0.0	1719.8
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	24655.2	0.0	24655.2
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	26375.0	0.0	26375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.0	1.3
10°-20°	912.2	3.5
20°-30°	1528.2	5.8
30°-40°	2370.0	9.0
40°-50°	3755.7	14.2
50°-60°	5505.4	20.9
60°-70°	7056.5	26.8
70°-80°	4434.1	16.8
80°-90°	461.9	1.8
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°	26375.0	100.0
0°-180°	26375.0	100.0

**Coefficient of Utilization**



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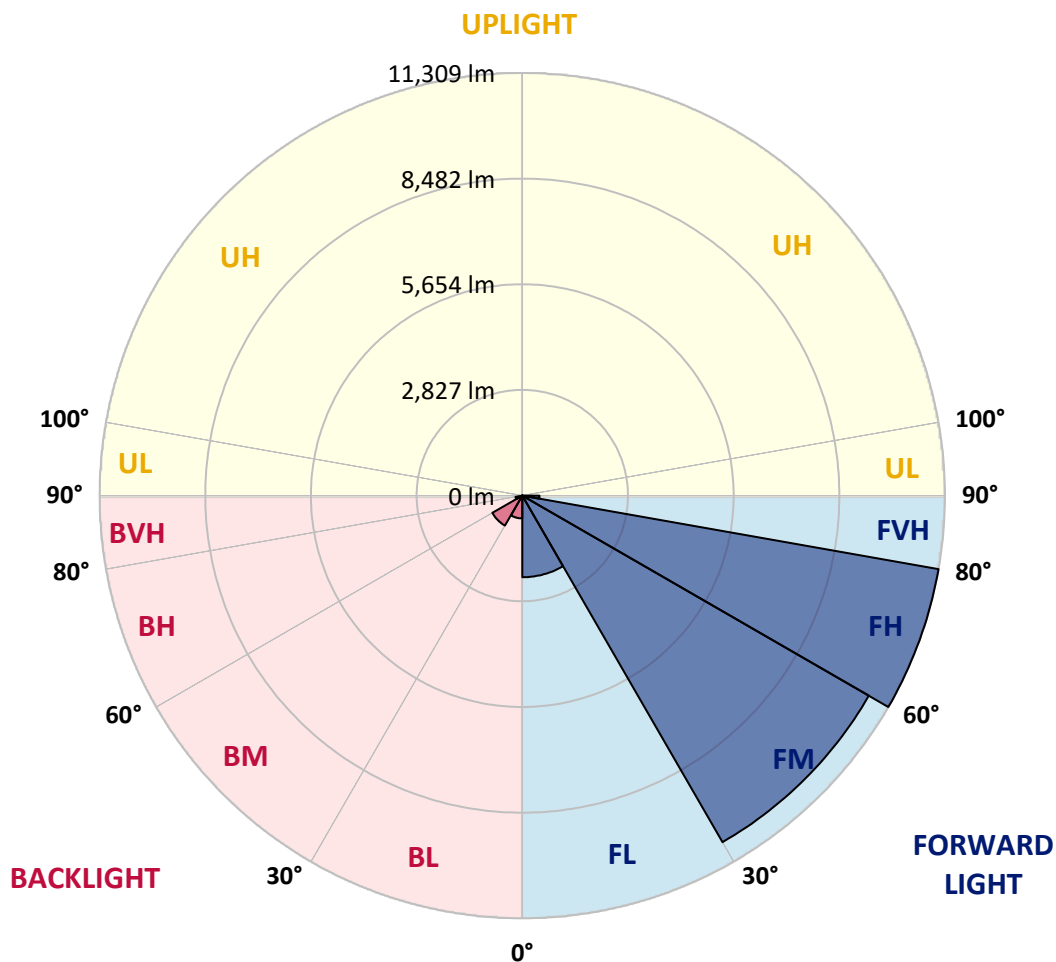
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.4	8.3			
FM (30°-60°)	10705.6	40.6			
FH (60°-80°)	11308.7	42.9			G4/12000
FVH (80°-90°)	458.5	1.7			G3/500
BL (0°-30°)	609.0	2.3	B2/1000		
BM (30°-60°)	925.5	3.5	B1/1000		
BH (60°-80°)	181.9	0.7	B1/500		G1/500
BVH (80°-90°)	3.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4755.2	4739.3	4718.0	4693.2	4622.3	4609.9	4567.4	4477.0	4368.9	4280.2	4157.9
5°	4980.3	4989.2	4973.2	4928.9	4877.5	4847.4	4794.2	4654.2	4514.2	4335.2	4134.9
7.5°	5031.7	5049.4	5029.9	4987.4	4937.8	4905.9	4863.3	4742.8	4579.8	4375.9	4101.2
10°	5026.4	5047.7	5035.3	4996.3	4955.5	4925.4	4879.3	4783.6	4652.4	4438.0	4111.9
12.5°	5017.5	5045.9	5044.1	5024.6	4990.9	4967.9	4939.5	4854.5	4732.2	4528.4	4170.3
15°	4992.7	5028.2	5060.1	5076.0	5077.8	5077.8	5042.3	4952.0	4835.0	4647.1	4246.6
17.5°	5003.4	5044.1	5123.9	5170.0	5201.9	5198.3	5161.1	5063.6	4934.2	4769.4	4326.3
20°	5068.9	5123.9	5235.5	5327.7	5359.6	5349.0	5299.3	5185.9	5038.8	4874.0	4404.3
22.5°	5230.2	5279.8	5419.9	5528.0	5551.0	5522.7	5451.8	5297.6	5164.6	4987.4	4498.2
25°	5471.3	5529.7	5659.1	5740.7	5740.7	5724.7	5625.4	5444.7	5306.4	5145.1	4620.5
27.5°	5763.7	5813.3	5940.9	6013.6	5971.1	5925.0	5825.7	5607.7	5474.8	5343.6	4767.6
30°	6059.7	6091.6	6226.3	6258.2	6213.9	6155.4	6049.0	5831.0	5714.1	5613.0	4980.3
32.5°	6339.7	6408.8	6520.5	6513.4	6453.1	6424.8	6327.3	6095.1	6029.5	6018.9	5278.1
35°	6619.7	6672.9	6772.2	6797.0	6743.8	6738.5	6667.6	6495.7	6497.4	6566.6	5742.4
37.5°	6860.8	6908.6	7025.6	7080.6	7091.2	7117.8	7089.4	6976.0	7137.3	7326.9	6357.4
40°	7062.8	7130.2	7279.1	7374.8	7484.6	7582.1	7587.4	7612.3	7936.6	8262.7	7160.3
42.5°	7220.6	7314.5	7530.7	7708.0	7959.6	8083.7	8183.0	8319.4	8865.3	9352.7	8106.7
45°	7426.2	7534.3	7803.7	8081.9	8475.4	8679.2	8817.5	9182.6	9957.1	10621.7	9078.0
47.5°	7766.5	7823.2	8097.9	8503.8	9021.3	9311.9	9581.3	10134.3	11128.6	11724.1	9886.2
50°	8204.2	8241.4	8448.8	9012.4	9682.4	10065.2	10556.1	11206.6	12344.4	12638.7	10343.5
52.5°	8688.1	8700.5	8856.5	9572.5	10423.2	10905.3	11454.7	12257.6	13335.2	13290.9	10646.5
55°	9249.9	9232.2	9365.1	10180.4	11300.5	11851.7	12491.5	13333.4	14194.8	13753.5	10820.2
57.5°	9893.3	9845.4	9974.8	10986.8	12424.2	13083.5	13734.0	14262.1	14861.2	14141.6	10903.5
60°	10566.8	10471.1	10625.3	11892.5	13748.1	14373.8	14914.4	15056.1	15563.0	14450.0	10760.0
62.5°	11103.8	11105.6	11392.7	12856.7	15109.3	15657.0	15944.1	16071.7	16167.4	14382.6	10004.9
65°	11942.1	11970.5	12429.5	14194.8	16684.9	17159.9	17356.7	16941.9	16194.0	13546.1	8870.6
67.5°	12807.0	12897.4	13737.5	16038.0	18505.1	18888.0	18634.5	17110.3	15470.9	11637.3	6726.1
70°	13088.8	13237.7	14621.9	17307.0	19596.9	19795.4	18937.6	16325.1	12932.9	7780.6	3385.2
72.5°	11993.5	12234.6	14113.3	16844.4	18900.4	18728.5	16943.7	13691.4	8221.9	2954.5	1033.3
75°	8457.7	8564.0	11729.4	13973.2	15201.5	14714.1	12888.6	8826.3	3381.7	829.5	354.5
77.5°	4367.1	4315.7	6976.0	9271.2	10841.5	10336.4	8439.9	4569.1	1281.4	345.6	219.8
80°	2258.0	2295.2	3018.3	4858.0	6618.0	6089.8	4500.0	2118.0	682.4	191.4	168.4
82.5°	1265.5	1187.5	1735.1	2121.5	3094.5	2426.4	1726.3	1499.4	297.8	115.2	159.5
85°	230.4	241.0	951.8	1146.7	1074.0	682.4	556.5	1001.4	86.8	63.8	111.7
87.5°	3.5	3.5	184.3	329.7	209.1	95.7	175.5	143.6	17.7	24.8	19.5
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°	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4	4115.4
2.5°	4095.9	4028.6	3902.7	3778.7	3620.9	3491.5	3404.7	3314.3	3222.1	3229.2	3250.5
5°	4025.0	3908.0	3659.9	3397.6	3145.9	2919.1	2695.7	2495.5	2413.9	2339.5	2343.1
7.5°	3954.1	3789.3	3426.0	3014.8	2633.7	2247.3	1967.3	1736.9	1614.6	1522.5	1495.9
10°	3922.2	3704.2	3211.5	2646.1	2105.6	1683.7	1323.9	1136.1	990.7	944.7	957.1
12.5°	3936.4	3661.7	3018.3	2312.9	1669.6	1173.3	921.6	825.9	794.0	788.7	785.2
15°	3963.0	3631.6	2828.7	1944.3	1226.5	872.0	774.5	756.8	753.3	749.7	751.5
17.5°	3998.4	3605.0	2626.6	1598.7	941.1	762.1	733.8	724.9	723.1	723.1	723.1
20°	4033.9	3574.8	2401.5	1290.3	785.2	719.6	701.9	696.5	694.8	694.8	693.0
22.5°	4074.6	3548.3	2172.9	1013.8	723.1	689.4	673.5	669.9	668.2	666.4	666.4
25°	4133.1	3514.6	1930.1	829.5	684.1	661.1	645.1	641.6	639.8	632.7	634.5
27.5°	4211.1	3489.8	1680.2	716.0	648.7	625.6	615.0	609.7	606.1	600.8	602.6
30°	4317.5	3468.5	1414.3	654.0	607.9	588.4	577.8	574.2	570.7	565.4	565.4
32.5°	4501.8	3477.4	1134.3	604.4	570.7	547.7	537.0	533.5	529.9	524.6	524.6
35°	4778.3	3528.8	907.4	561.8	526.4	503.3	492.7	492.7	487.4	480.3	478.5
37.5°	5230.2	3659.9	728.4	521.1	483.9	462.6	450.2	446.6	441.3	430.7	428.9
40°	5763.7	3863.7	613.2	480.3	444.9	423.6	413.0	402.3	388.1	377.5	375.7
42.5°	6433.6	4072.9	531.7	439.5	407.6	388.1	375.7	358.0	336.7	322.6	320.8
45°	7132.0	4264.3	476.8	402.3	372.2	356.2	342.1	313.7	287.1	269.4	267.6
47.5°	7653.0	4299.7	432.5	366.9	342.1	326.1	306.6	271.2	235.7	219.8	214.5
50°	7899.4	4127.8	386.4	331.4	311.9	294.2	269.4	228.6	189.6	170.1	166.6
52.5°	7986.2	3830.1	349.2	299.5	281.8	260.5	230.4	184.3	148.9	129.4	127.6
55°	7950.8	3454.3	315.5	269.4	246.4	221.5	191.4	147.1	109.9	93.9	90.4
57.5°	7764.7	2975.8	281.8	239.3	210.9	186.1	152.4	109.9	74.4	60.3	58.5
60°	7263.1	2323.6	248.1	205.6	179.0	152.4	120.5	78.0	46.1	33.7	33.7
62.5°	6415.9	1724.5	216.2	171.9	150.7	122.3	85.1	49.6	24.8	17.7	16.0
65°	5361.4	1272.5	180.8	145.3	125.8	95.7	60.3	30.1	12.4	5.3	3.5
67.5°	3741.4	785.2	150.7	118.7	102.8	69.1	37.2	12.4	5.3	0.0	0.0
70°	1699.7	374.0	115.2	90.4	78.0	49.6	19.5	7.1	3.5	0.0	0.0
72.5°	528.2	196.7	81.5	65.6	53.2	31.9	10.6	5.3	3.5	0.0	0.0
75°	244.6	125.8	51.4	35.4	30.1	16.0	7.1	3.5	1.8	0.0	0.0
77.5°	182.6	97.5	30.1	19.5	16.0	10.6	5.3	3.5	1.8	0.0	0.0
80°	159.5	49.6	17.7	12.4	8.9	7.1	3.5	1.8	0.0	0.0	0.0
82.5°	143.6	24.8	10.6	7.1	5.3	3.5	1.8	1.8	0.0	0.0	0.0
85°	78.0	14.2	7.1	5.3	3.5	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.2	7.1	5.3	3.5	3.5	1.8	1.8	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)