

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: P454398

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26270 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

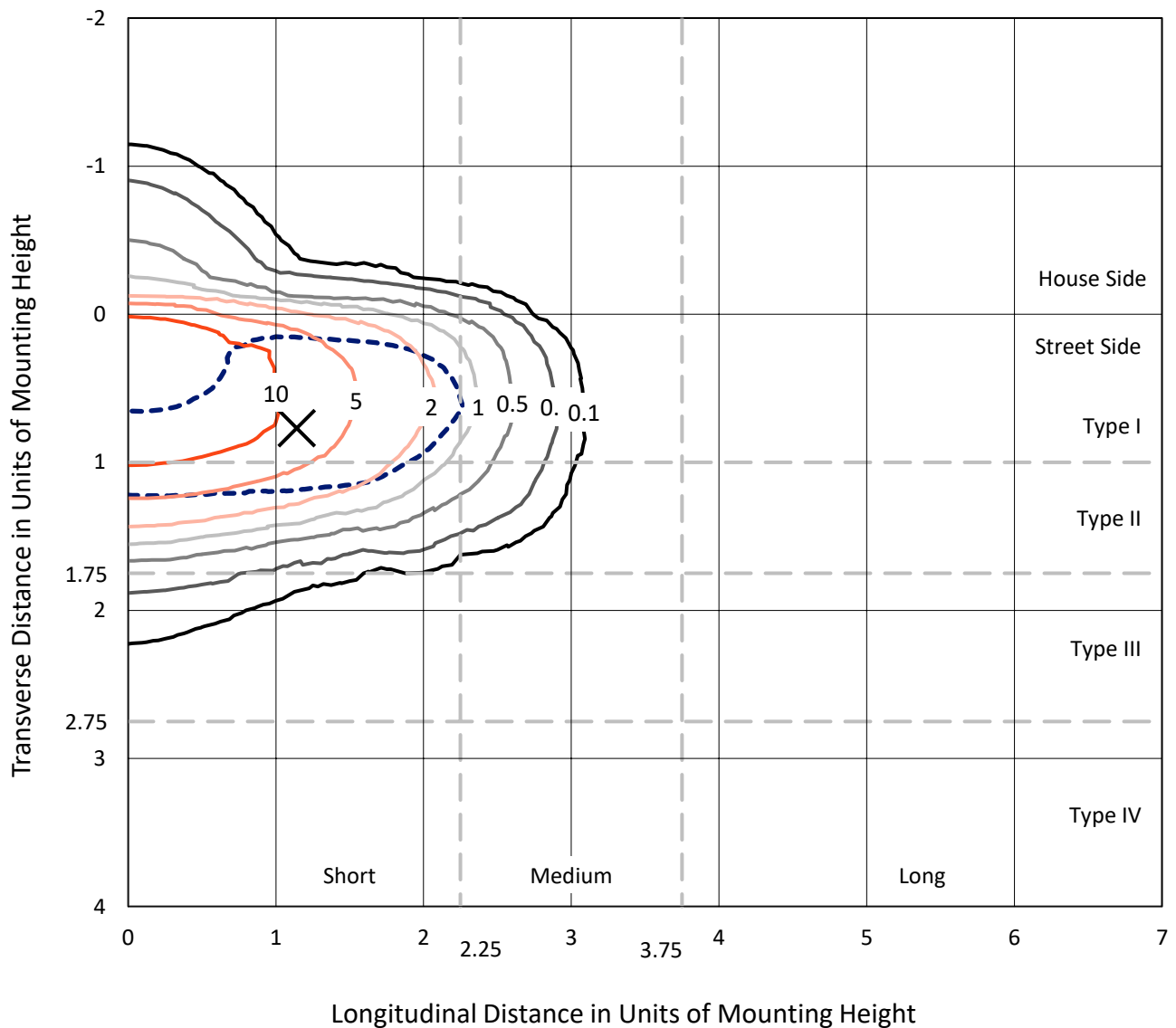
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

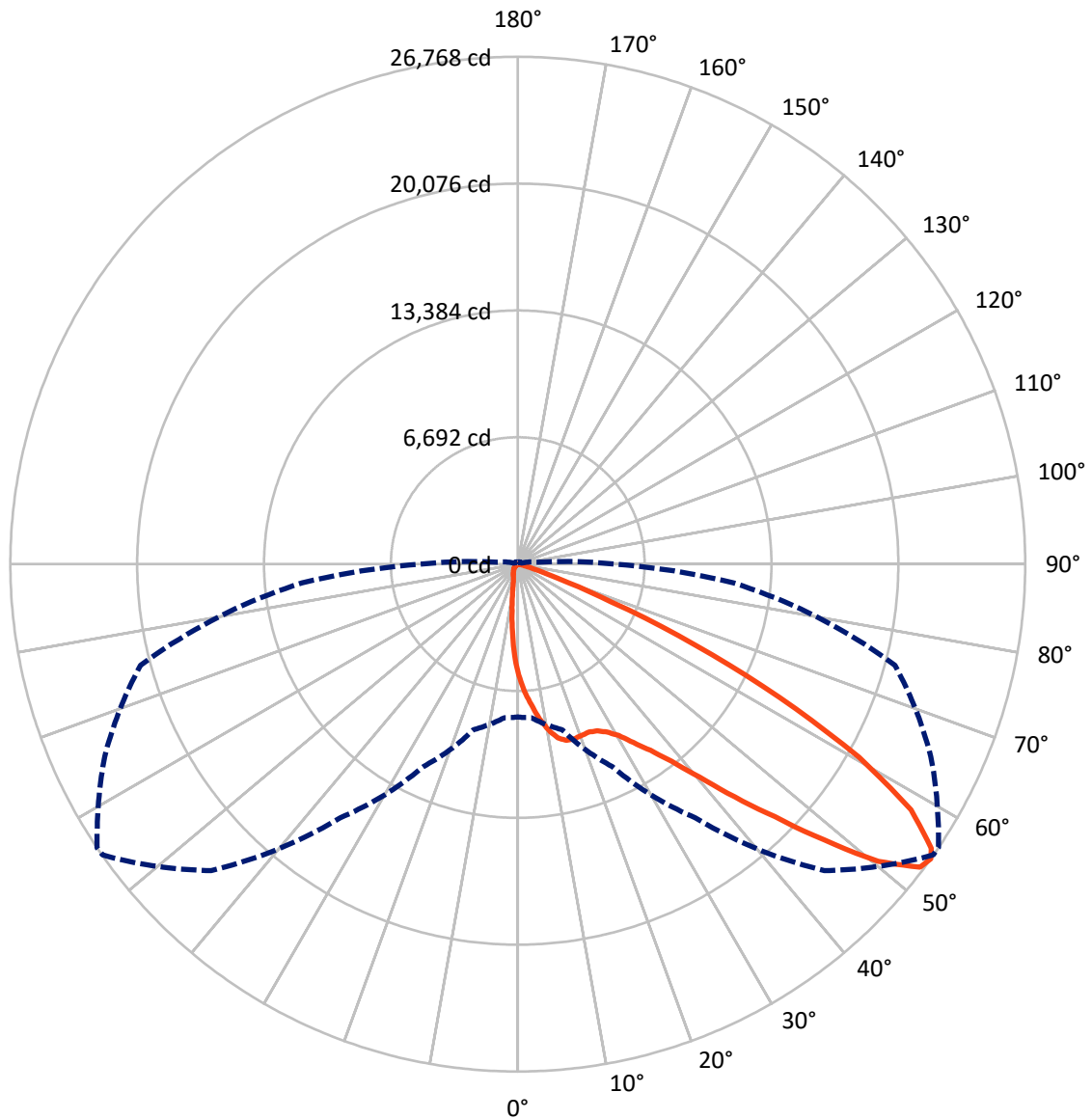
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1242.3	0.0	1242.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	25027.8	0.0	25027.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	26270.0	0.0	26270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.7	2.0
10°-20°	1394.2	5.3
20°-30°	2414.7	9.2
30°-40°	4168.1	15.9
40°-50°	7094.3	27.0
50°-60°	7020.7	26.7
60°-70°	3204.4	12.2
70°-80°	411.5	1.6
80°-90°	46.4	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°	26270.0	100.0
0°-180°	26270.0	100.0

**Coefficient of Utilization**



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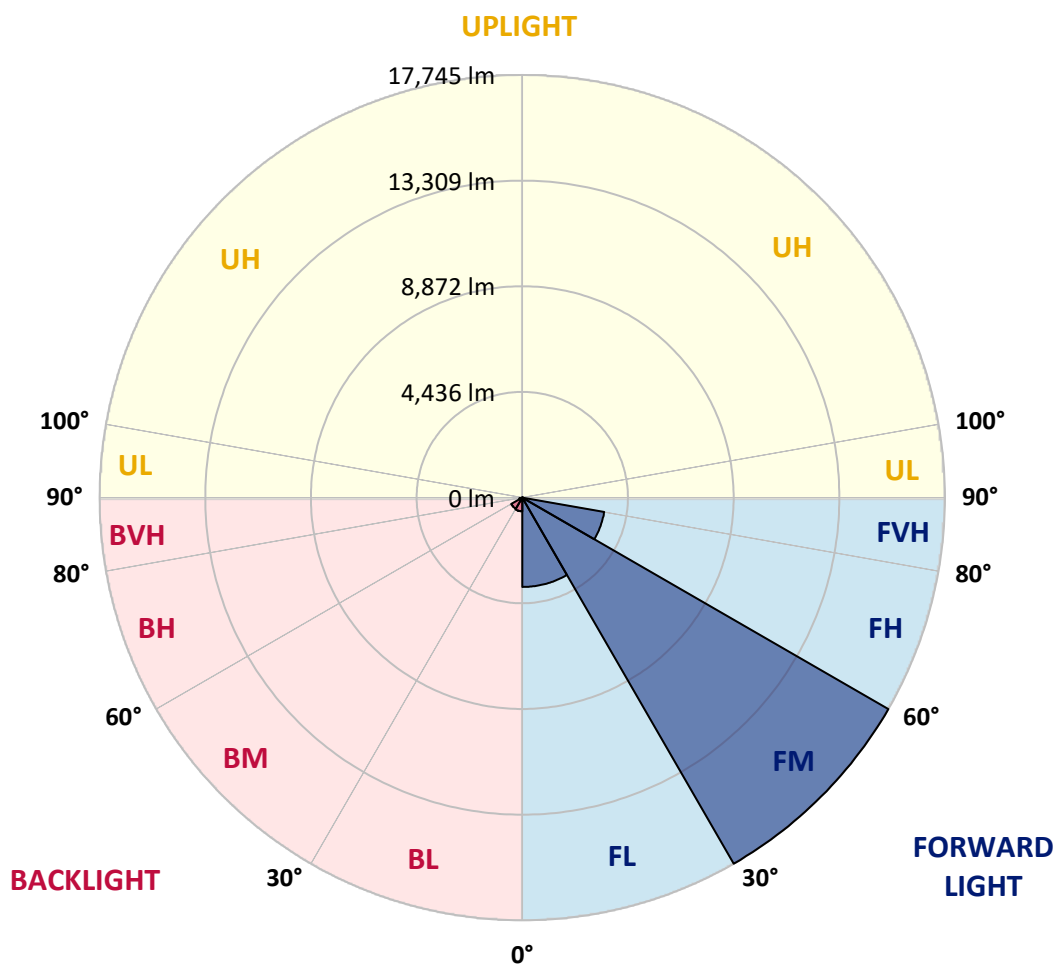
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.1	14.3			
FM (30°-60°)	17744.7	67.5			
FH (60°-80°)	3491.5	13.3			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	574.5	2.2	B2/1000		
BM (30°-60°)	538.4	2.0	B1/1000		
BH (60°-80°)	124.4	0.5	B1/500		G1/500
BVH (80°-90°)	5.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4
2.5°	7417.4	7366.0	7295.1	7240.2	7110.8	6924.7	6727.9	6727.9	6538.3	6274.2	6004.8
5°	8555.3	8521.6	8452.5	8310.7	8165.3	7904.8	7509.6	7440.4	7101.9	6623.4	6120.0
7.5°	9017.9	9033.8	9037.4	9000.1	8931.0	8674.0	8282.3	8234.5	7693.9	7052.3	6270.7
10°	8574.8	8652.7	8729.0	8883.2	9101.2	9163.2	8941.6	8892.0	8360.3	7486.5	6433.7
12.5°	7915.4	7958.0	8000.5	8243.3	8681.1	9182.7	9414.9	9413.1	8962.9	7919.0	6641.1
15°	7608.8	7646.0	7649.6	7757.7	8137.0	8867.2	9616.9	9643.5	9551.3	8452.5	6864.4
17.5°	7672.6	7702.8	7677.9	7704.5	7903.0	8519.8	9593.9	9682.5	10028.1	8964.7	7066.5
20°	8089.1	8147.6	8051.9	7977.5	8037.7	8427.7	9515.9	9640.0	10364.9	9464.5	7250.8
22.5°	8837.1	8869.0	8748.5	8544.6	8438.3	8620.8	9494.6	9616.9	10652.0	9873.9	7357.1
25°	9668.3	9657.7	9524.8	9296.1	9072.8	9010.8	9634.6	9744.5	10889.5	10242.6	7389.0
27.5°	10499.6	10531.5	10308.1	10024.6	9756.9	9595.7	9948.4	10029.9	11157.1	10662.6	7428.0
30°	11465.5	11414.1	11194.3	10870.0	10563.4	10338.3	10453.5	10476.5	11525.8	11219.1	7530.8
32.5°	12722.1	12580.3	12334.0	11766.8	11547.0	11166.0	11194.3	11222.7	11974.2	11770.4	7654.9
35°	14427.2	14420.1	13938.0	13174.1	12638.8	12165.6	12041.5	12064.6	12653.0	12589.2	7929.6
37.5°	16479.6	16507.9	15958.5	15189.3	14203.8	13452.3	13197.1	13200.7	13684.5	13720.0	8347.9
40°	18150.9	18225.4	17897.5	17378.2	16405.1	15230.0	14801.1	14762.1	15134.3	15090.0	8945.2
42.5°	18870.5	18939.6	19061.9	19242.7	18707.4	17738.0	16725.9	16779.1	16892.5	16582.4	9615.1
45°	18517.8	18627.7	19108.0	20224.6	20728.0	20401.8	19194.8	19008.7	18528.4	18204.1	10288.7
47.5°	17048.5	17316.1	18119.0	19978.2	21740.0	22842.4	21981.0	21734.7	20166.1	19388.0	10717.6
50°	14632.7	14648.7	15767.1	18143.8	21215.4	24382.6	24825.7	24641.4	21692.1	20052.7	10933.8
52.5°	10607.7	10956.8	11981.3	14733.8	18943.2	24148.6	26638.8	26562.6	23266.0	20393.0	11245.7
54°	8064.3	8131.7	9042.7	11773.9	16332.5	22863.7	26750.5	26768.2	24047.6	20598.6	11430.1
55°	6611.0	6449.7	7406.8	10029.9	14551.2	21727.6	26385.4	26470.5	24398.5	20704.9	11566.5
57.5°	3133.6	3135.3	3867.3	5290.5	9113.6	16871.3	24154.0	24455.3	24437.5	20887.5	11986.6
60°	1586.3	1596.9	1758.2	2442.3	4501.8	11215.6	19971.1	20689.0	22557.0	20914.1	12124.8
62.5°	1109.5	1097.1	1070.5	1175.1	1894.7	5700.0	14868.5	15492.4	19164.7	19902.0	11685.3
65°	950.0	923.4	849.0	833.0	957.1	2270.4	9260.7	10278.0	14632.7	17232.8	10434.0
67.5°	811.7	801.1	733.8	693.0	677.0	989.0	4778.3	5313.6	10001.5	12387.1	7903.0
70°	689.5	684.1	643.4	592.0	547.7	592.0	1772.4	2196.0	5574.1	6669.5	3729.1
72.5°	560.1	565.4	572.5	506.9	460.8	420.1	756.8	880.9	2332.4	2383.8	1304.5
75°	490.9	485.6	485.6	441.3	384.6	311.9	416.5	448.4	714.3	662.9	303.1
77.5°	345.6	333.2	389.9	363.3	320.8	221.5	237.5	251.7	296.0	253.4	141.8
80°	239.3	239.3	249.9	326.1	288.9	161.3	145.3	156.0	175.5	150.7	81.5
82.5°	134.7	138.2	163.1	173.7	168.4	108.1	95.7	97.5	117.0	102.8	51.4
85°	16.0	26.6	93.9	92.2	69.1	47.9	53.2	54.9	72.7	63.8	30.1
87.5°	1.8	3.5	19.5	24.8	17.7	19.5	19.5	19.5	24.8	28.4	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°	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4	5836.4
2.5°	5859.5	5724.8	5404.0	5031.8	4794.3	4407.9	4081.8	3846.1	3787.6	3674.1	3707.8
5°	5852.4	5572.4	4918.3	4227.1	3489.8	2940.4	2531.0	2208.4	2066.6	1972.7	1907.1
7.5°	5855.9	5418.2	4368.9	3268.3	2387.4	1848.6	1469.3	1272.6	1141.4	1086.5	1093.6
10°	5866.6	5244.5	3730.9	2421.1	1611.1	1194.6	962.4	868.5	824.2	817.1	815.3
12.5°	5891.4	5054.8	3121.2	1797.2	1127.2	868.5	779.8	747.9	733.8	733.8	728.4
15°	5918.0	4845.7	2614.3	1336.4	868.5	746.2	705.4	689.5	680.6	680.6	678.8
17.5°	5918.0	4604.6	2141.0	1036.8	747.9	685.9	654.0	632.7	625.6	625.6	623.9
20°	5880.7	4324.6	1721.0	834.8	678.8	629.2	597.3	574.3	565.4	561.8	560.1
22.5°	5751.4	3950.6	1370.0	717.8	622.1	579.6	538.8	512.2	505.1	501.6	503.4
25°	5521.0	3528.8	1084.7	631.0	570.7	519.3	483.9	464.4	457.3	457.3	459.0
27.5°	5283.5	3087.5	859.6	565.4	508.7	462.6	434.2	421.8	420.1	425.4	427.1
30°	5063.7	2644.4	696.5	512.2	453.7	414.7	395.2	391.7	391.7	393.5	395.2
32.5°	4819.1	2256.2	583.1	466.1	409.4	375.7	365.1	365.1	368.7	368.7	372.2
35°	4664.9	1923.0	512.2	421.8	375.7	347.4	340.3	342.1	347.4	354.5	358.0
37.5°	4581.6	1657.2	466.1	386.4	343.8	324.3	317.3	320.8	333.2	345.6	347.4
40°	4588.7	1456.9	428.9	356.2	319.0	297.8	292.4	303.1	315.5	327.9	329.7
42.5°	4666.7	1308.0	393.5	320.8	297.8	267.6	265.9	276.5	281.8	294.2	296.0
45°	4758.8	1199.9	356.2	283.6	258.8	232.2	234.0	242.8	249.9	269.4	272.9
47.5°	4787.2	1125.5	313.7	241.0	212.7	203.8	205.6	210.9	225.1	242.8	244.6
50°	4819.1	1079.4	272.9	203.8	180.8	179.0	180.8	184.3	193.2	200.3	198.5
52.5°	4955.6	1077.6	239.3	177.2	154.2	157.7	159.5	157.7	150.7	140.0	136.5
54°	5083.2	1082.9	223.3	164.8	141.8	147.1	145.3	136.5	118.7	108.1	102.8
55°	5186.0	1088.2	214.5	156.0	134.7	136.5	138.2	120.5	97.5	86.8	83.3
57.5°	5388.0	1075.8	193.2	136.5	118.7	111.7	109.9	79.8	53.2	46.1	42.5
60°	5287.0	971.3	175.5	117.0	101.0	90.4	74.4	44.3	26.6	19.5	19.5
62.5°	4890.0	824.2	156.0	95.7	83.3	69.1	39.0	24.8	12.4	7.1	5.3
65°	4374.2	693.0	140.0	76.2	65.6	44.3	21.3	16.0	5.3	0.0	0.0
67.5°	3252.3	514.0	118.7	60.3	49.6	28.4	14.2	8.9	1.8	0.0	0.0
70°	1506.5	313.7	101.0	46.1	35.4	21.3	10.6	5.3	0.0	0.0	0.0
72.5°	432.5	196.7	83.3	33.7	24.8	17.7	8.9	3.5	1.8	0.0	0.0
75°	150.7	157.7	62.0	24.8	19.5	12.4	7.1	3.5	1.8	0.0	0.0
77.5°	90.4	127.6	39.0	21.3	16.0	10.6	7.1	3.5	1.8	1.8	0.0
80°	51.4	85.1	24.8	17.7	14.2	8.9	5.3	3.5	1.8	1.8	0.0
82.5°	28.4	40.8	19.5	16.0	12.4	8.9	5.3	3.5	1.8	1.8	1.8
85°	23.0	21.3	16.0	14.2	10.6	7.1	5.3	1.8	0.0	0.0	0.0
87.5°	17.7	14.2	14.2	14.2	10.6	7.1	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)