

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: P454224

Luminaire Tested: **GALN-SA5B-750-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454224  
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-SA5B-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA 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: 23347 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

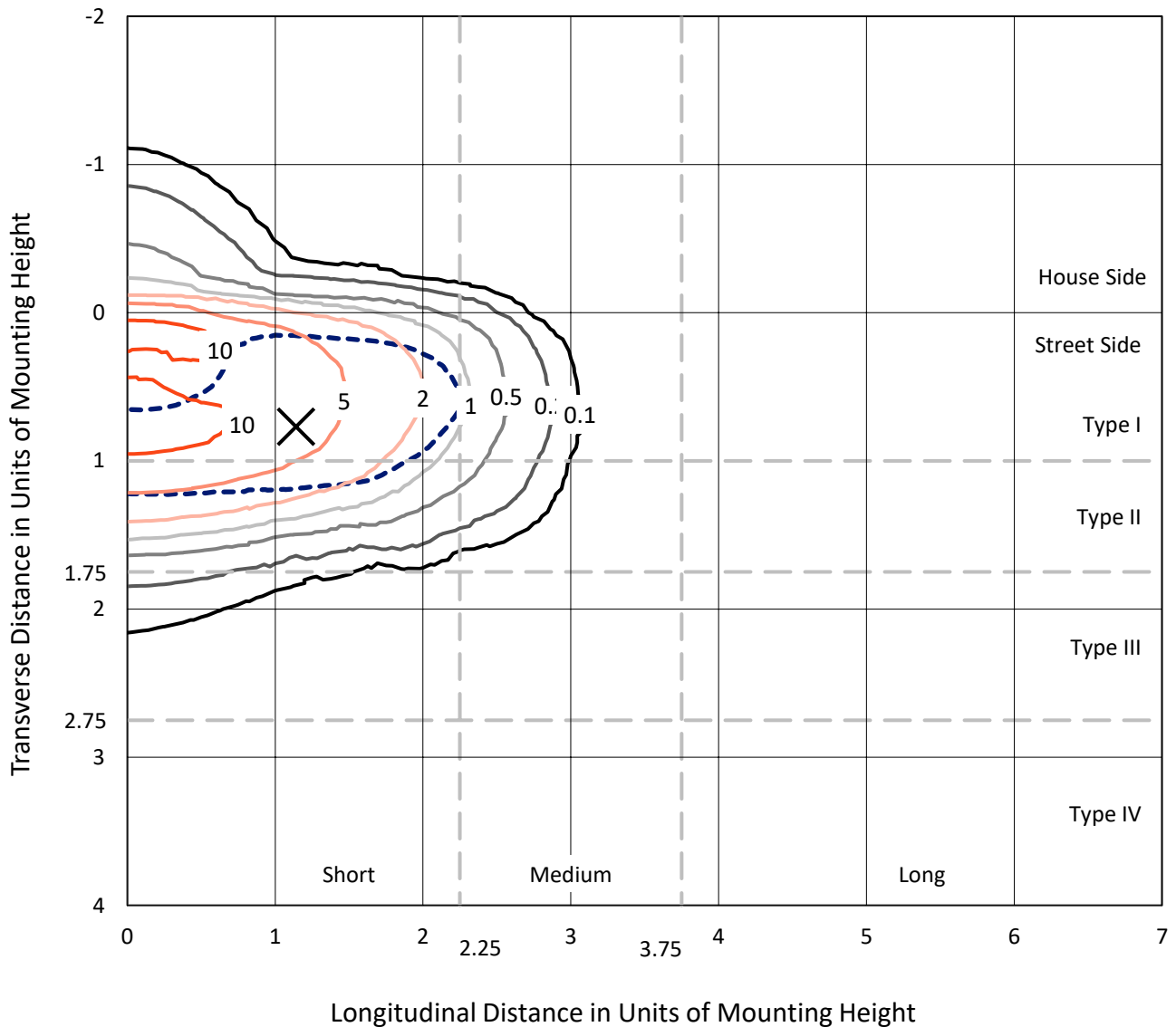
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

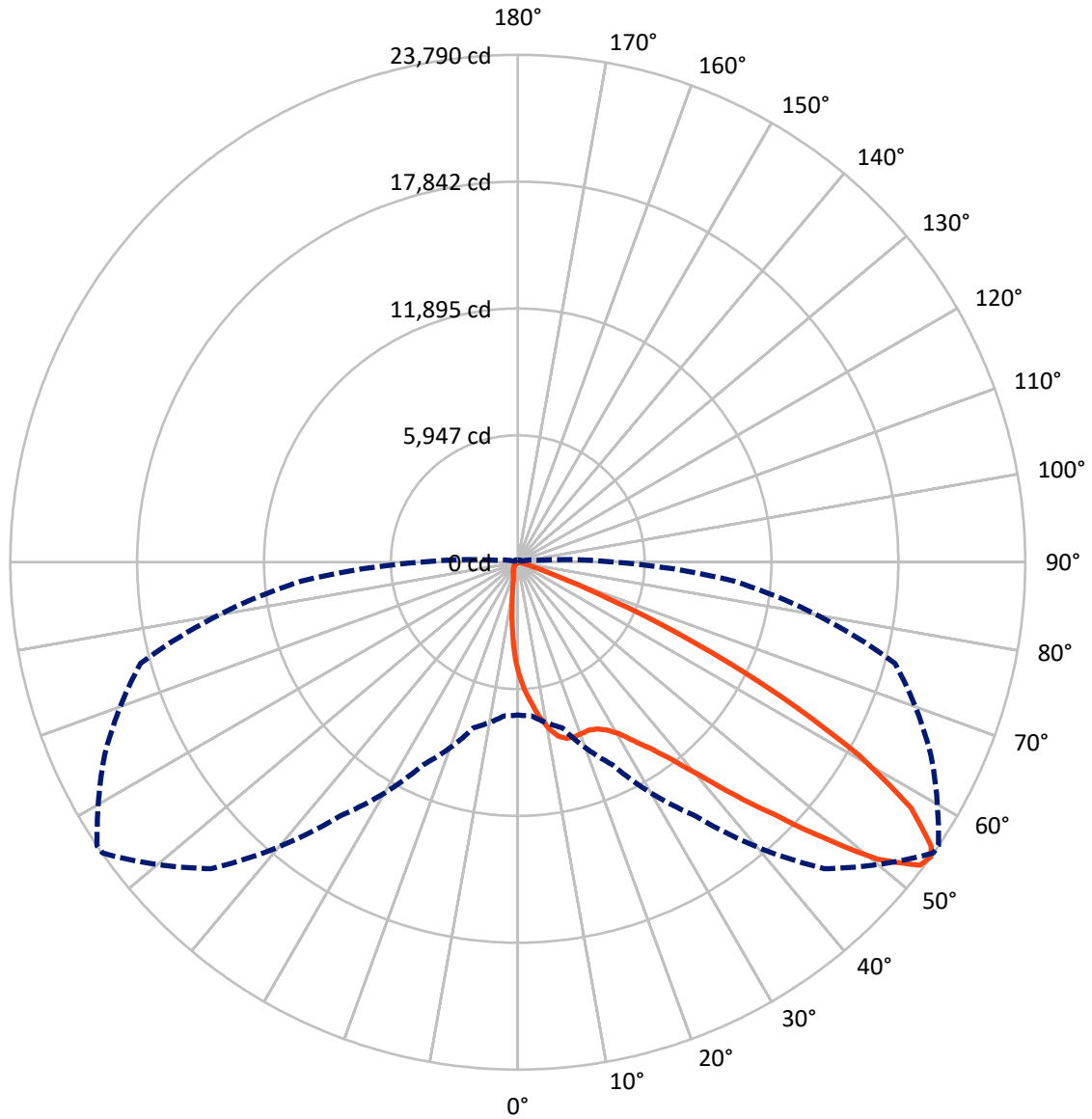
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1104.0	0.0	1104.0
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	22243.0	0.0	22243.0
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	23347.0	0.0	23347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.4	2.0
10°-20°	1239.1	5.3
20°-30°	2146.0	9.2
30°-40°	3704.3	15.9
40°-50°	6304.9	27.0
50°-60°	6239.5	26.7
60°-70°	2847.8	12.2
70°-80°	365.7	1.6
80°-90°	41.2	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°	23347.0	100.0
0°-180°	23347.0	100.0

**Coefficient of Utilization**



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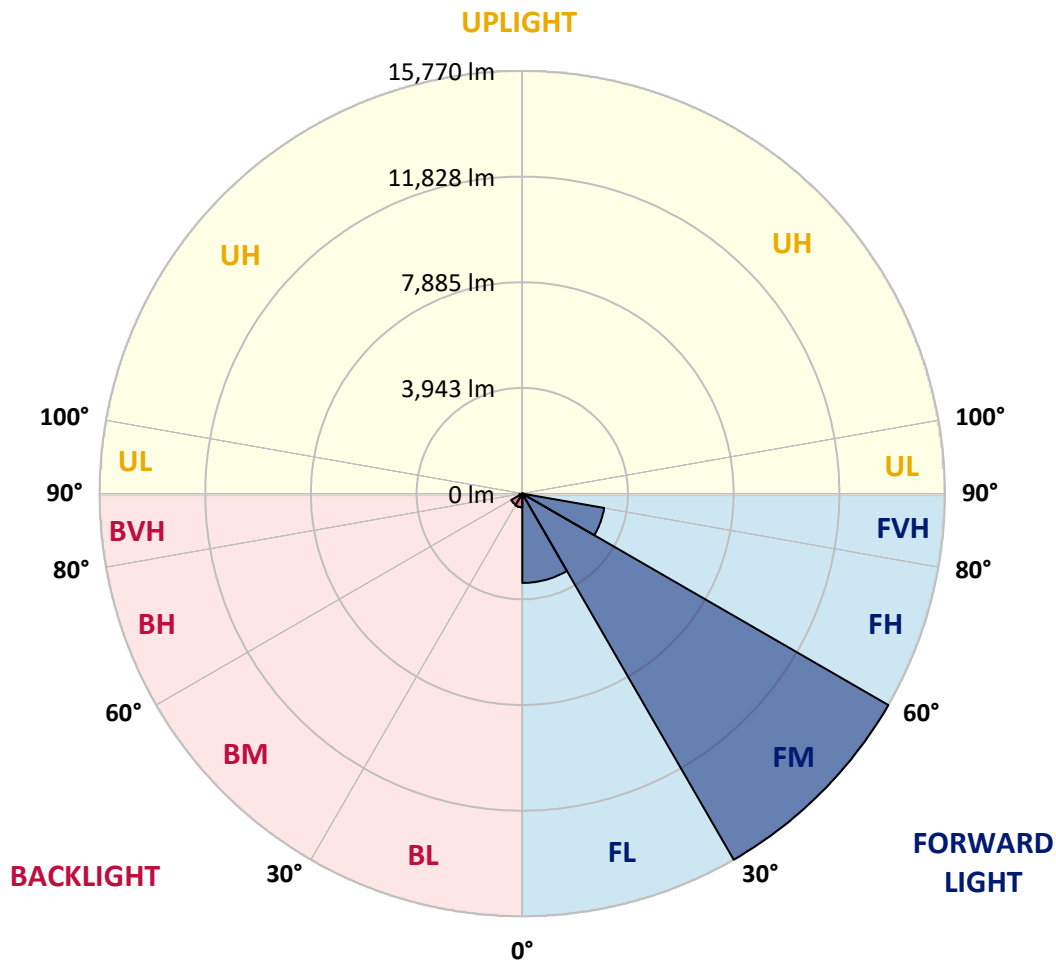
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3332.9	14.3			
FM (30°-60°)	15770.3	67.5			
FH (60°-80°)	3103.0	13.3			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	510.6	2.2	B2/1000		
BM (30°-60°)	478.5	2.0	B1/1000		
BH (60°-80°)	110.6	0.5	B1/500		G1/500
BVH (80°-90°)	4.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	6592.1	6546.4	6483.4	6434.6	6319.6	6154.2	5979.3	5979.3	5810.8	5576.1	5336.7
5°	7603.3	7573.4	7512.0	7386.0	7256.8	7025.3	6674.0	6612.6	6311.7	5886.4	5439.1
7.5°	8014.5	8028.6	8031.8	7998.7	7937.3	7708.9	7360.8	7318.2	6837.8	6267.6	5572.9
10°	7620.7	7690.0	7757.7	7894.7	8088.5	8143.6	7946.7	7902.6	7430.1	6653.5	5717.9
12.5°	7034.7	7072.5	7110.3	7326.1	7715.2	8161.0	8367.3	8365.7	7965.6	7037.9	5902.2
15°	6762.2	6795.3	6798.4	6894.5	7231.6	7880.6	8546.9	8570.5	8488.6	7512.0	6100.6
17.5°	6818.9	6845.7	6823.6	6847.3	7023.7	7571.8	8526.4	8605.1	8912.3	7967.2	6280.2
20°	7189.1	7241.1	7156.0	7089.8	7143.4	7489.9	8457.1	8567.3	9211.6	8411.4	6444.0
22.5°	7853.8	7882.1	7775.0	7593.9	7499.4	7661.6	8438.2	8546.9	9466.8	8775.3	6538.5
25°	8592.5	8583.1	8465.0	8261.8	8063.3	8008.2	8562.6	8660.3	9677.8	9102.9	6566.9
27.5°	9331.3	9359.7	9161.2	8909.2	8671.3	8528.0	8841.4	8913.9	9915.7	9476.2	6601.5
30°	10189.8	10144.1	9948.8	9660.5	9388.0	9188.0	9290.3	9310.8	10243.3	9970.8	6692.9
32.5°	11306.6	11180.6	10961.6	10457.5	10262.2	9923.6	9948.8	9974.0	10641.8	10460.7	6803.2
35°	12821.9	12815.6	12387.1	11708.2	11232.5	10812.0	10701.7	10722.2	11245.1	11188.4	7047.3
37.5°	14645.9	14671.1	14182.8	13499.2	12623.4	11955.5	11728.7	11731.9	12161.9	12193.4	7419.0
40°	16131.3	16197.5	15906.1	15444.5	14579.8	13535.4	13154.2	13119.6	13450.4	13411.0	7949.9
42.5°	16770.8	16832.3	16940.9	17101.6	16625.9	15764.3	14864.9	14912.1	15012.9	14737.3	8545.3
45°	16457.4	16555.0	16981.9	17974.3	18421.6	18131.8	17059.1	16893.7	16466.8	16178.6	9143.9
47.5°	15151.6	15389.4	16103.0	17755.3	19321.0	20300.8	19535.2	19316.3	17922.3	17230.8	9525.0
50°	13004.6	13018.8	14012.7	16125.0	18854.8	21669.6	22063.4	21899.6	19278.5	17821.5	9717.2
52.5°	9427.4	9737.7	10648.1	13094.4	16835.4	21461.7	23674.8	23607.1	20677.2	18123.9	9994.4
54°	7167.0	7226.9	8036.5	10463.8	14515.2	20319.7	23774.0	23789.8	21371.9	18306.6	10158.3
55°	5875.4	5732.0	6582.6	8913.9	12932.1	19310.0	23449.5	23525.2	21683.8	18401.1	10279.6
57.5°	2784.9	2786.5	3437.0	4701.9	8099.5	14994.0	21466.4	21734.2	21718.4	18563.4	10652.9
60°	1409.8	1419.2	1562.6	2170.6	4000.9	9967.7	17749.0	18387.0	20047.2	18587.0	10775.7
62.5°	986.1	975.0	951.4	1044.3	1683.9	5065.7	13214.1	13768.6	17032.3	17687.6	10385.1
65°	844.3	820.7	754.5	740.3	850.6	2017.8	8230.3	9134.4	13004.6	15315.4	9273.0
67.5°	721.4	712.0	652.1	615.9	601.7	878.9	4246.7	4722.4	8888.7	11008.9	7023.7
70°	612.7	608.0	571.8	526.1	486.7	526.1	1575.2	1951.6	4953.9	5927.4	3314.2
72.5°	497.8	502.5	508.8	450.5	409.5	373.3	672.6	782.9	2072.9	2118.6	1159.3
75°	436.3	431.6	431.6	392.2	341.8	277.2	370.2	398.5	634.8	589.1	269.4
77.5°	307.2	296.1	346.5	322.9	285.1	196.9	211.1	223.7	263.1	225.2	126.0
80°	212.6	212.6	222.1	289.8	256.8	143.3	129.2	138.6	155.9	133.9	72.5
82.5°	119.7	122.9	144.9	154.4	149.6	96.1	85.1	86.6	104.0	91.4	45.7
85°	14.2	23.6	83.5	81.9	61.4	42.5	47.3	48.8	64.6	56.7	26.8
87.5°	1.6	3.2	17.3	22.1	15.8	17.3	17.3	17.3	22.1	25.2	18.9
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°	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0	5187.0
2.5°	5207.5	5087.8	4802.7	4471.9	4260.8	3917.4	3627.6	3418.1	3366.1	3265.3	3295.3
5°	5201.2	4952.3	4371.1	3756.8	3101.5	2613.2	2249.3	1962.7	1836.6	1753.2	1694.9
7.5°	5204.4	4815.3	3882.8	2904.6	2121.8	1642.9	1305.8	1131.0	1014.4	965.6	971.9
10°	5213.8	4660.9	3315.7	2151.7	1431.8	1061.7	855.3	771.8	732.5	726.2	724.6
12.5°	5235.9	4492.4	2773.9	1597.2	1001.8	771.8	693.1	664.7	652.1	652.1	647.4
15°	5259.5	4306.5	2323.4	1187.7	771.8	663.1	626.9	612.7	604.9	604.9	603.3
17.5°	5259.5	4092.3	1902.8	921.5	664.7	609.6	581.2	562.3	556.0	556.0	554.5
20°	5226.4	3843.4	1529.5	741.9	603.3	559.2	530.8	510.4	502.5	499.3	497.8
22.5°	5111.4	3511.1	1217.6	637.9	552.9	515.1	478.9	455.2	448.9	445.8	447.3
25°	4906.7	3136.2	964.0	560.8	507.2	461.5	430.0	412.7	406.4	406.4	408.0
27.5°	4695.6	2743.9	764.0	502.5	452.1	411.1	385.9	374.9	373.3	378.0	379.6
30°	4500.3	2350.2	619.0	455.2	403.2	368.6	351.3	348.1	348.1	349.7	351.3
32.5°	4282.9	2005.2	518.2	414.3	363.9	333.9	324.5	324.5	327.6	327.6	330.8
35°	4145.8	1709.1	455.2	374.9	333.9	308.7	302.4	304.0	308.7	315.0	318.2
37.5°	4071.8	1472.8	414.3	343.4	305.6	288.3	282.0	285.1	296.1	307.2	308.7
40°	4078.1	1294.8	381.2	316.6	283.5	264.6	259.9	269.4	280.4	291.4	293.0
42.5°	4147.4	1162.5	349.7	285.1	264.6	237.9	236.3	245.7	250.5	261.5	263.1
45°	4229.3	1066.4	316.6	252.0	230.0	206.3	207.9	215.8	222.1	239.4	242.6
47.5°	4254.5	1000.2	278.8	214.2	189.0	181.1	182.7	187.4	200.0	215.8	217.4
50°	4282.9	959.3	242.6	181.1	160.7	159.1	160.7	163.8	171.7	178.0	176.4
52.5°	4404.2	957.7	212.6	157.5	137.0	140.2	141.8	140.2	133.9	124.4	121.3
54°	4517.6	962.4	198.5	146.5	126.0	130.7	129.2	121.3	105.5	96.1	91.4
55°	4608.9	967.2	190.6	138.6	119.7	121.3	122.9	107.1	86.6	77.2	74.0
57.5°	4788.5	956.1	171.7	121.3	105.5	99.2	97.7	70.9	47.3	41.0	37.8
60°	4698.7	863.2	155.9	104.0	89.8	80.3	66.2	39.4	23.6	17.3	17.3
62.5°	4345.9	732.5	138.6	85.1	74.0	61.4	34.7	22.1	11.0	6.3	4.7
65°	3887.5	615.9	124.4	67.7	58.3	39.4	18.9	14.2	4.7	0.0	0.0
67.5°	2890.4	456.8	105.5	53.6	44.1	25.2	12.6	7.9	1.6	0.0	0.0
70°	1338.9	278.8	89.8	41.0	31.5	18.9	9.5	4.7	0.0	0.0	0.0
72.5°	384.3	174.8	74.0	29.9	22.1	15.8	7.9	3.2	1.6	0.0	0.0
75°	133.9	140.2	55.1	22.1	17.3	11.0	6.3	3.2	1.6	0.0	0.0
77.5°	80.3	113.4	34.7	18.9	14.2	9.5	6.3	3.2	1.6	1.6	0.0
80°	45.7	75.6	22.1	15.8	12.6	7.9	4.7	3.2	1.6	1.6	0.0
82.5°	25.2	36.2	17.3	14.2	11.0	7.9	4.7	3.2	1.6	1.6	1.6
85°	20.5	18.9	14.2	12.6	9.5	6.3	4.7	1.6	0.0	0.0	0.0
87.5°	15.8	12.6	12.6	12.6	9.5	6.3	4.7	1.6	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)