

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: P457849

Luminaire Tested: **GALN-SA9B-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457849  
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-SA9B-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 35346 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

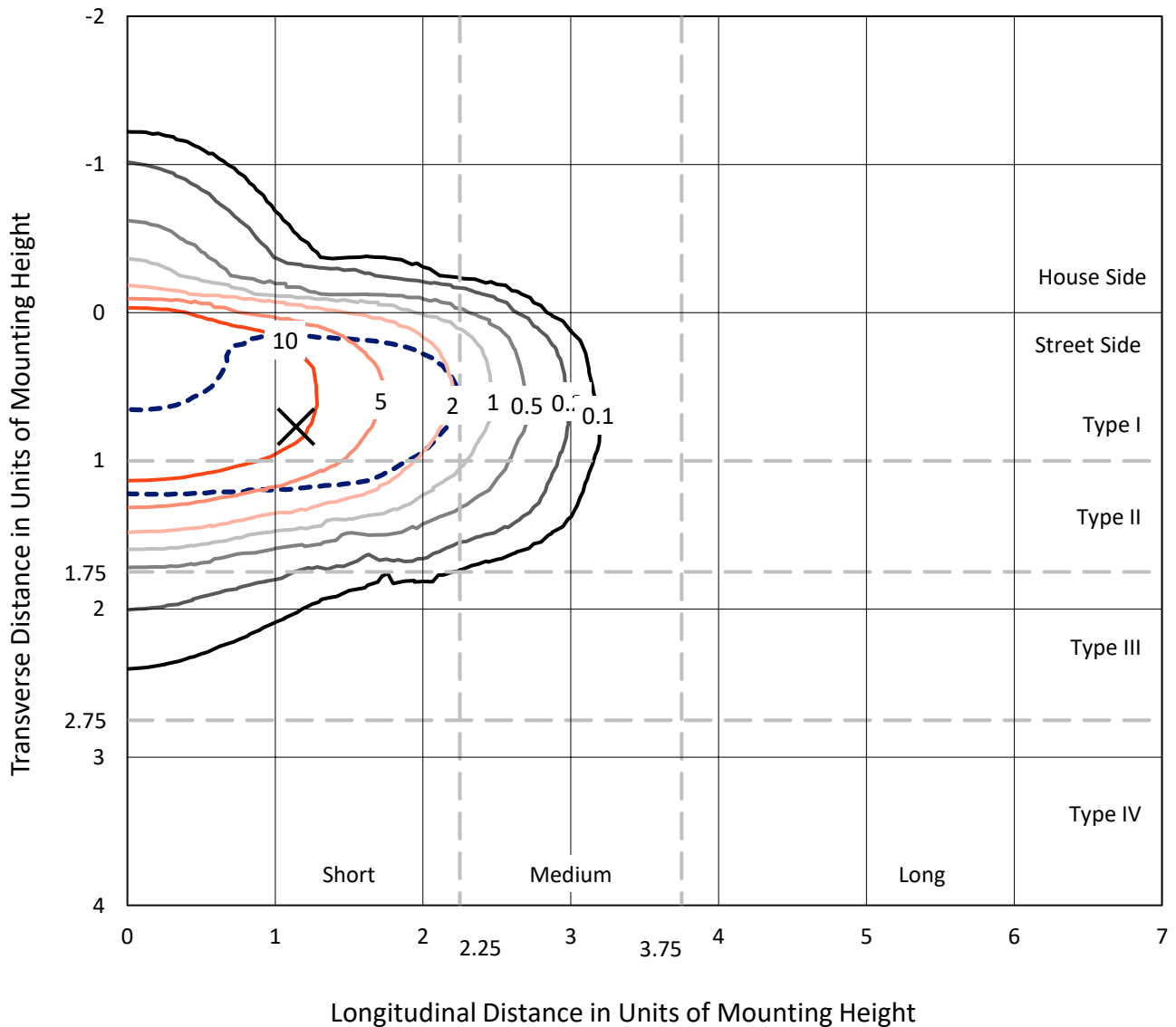
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

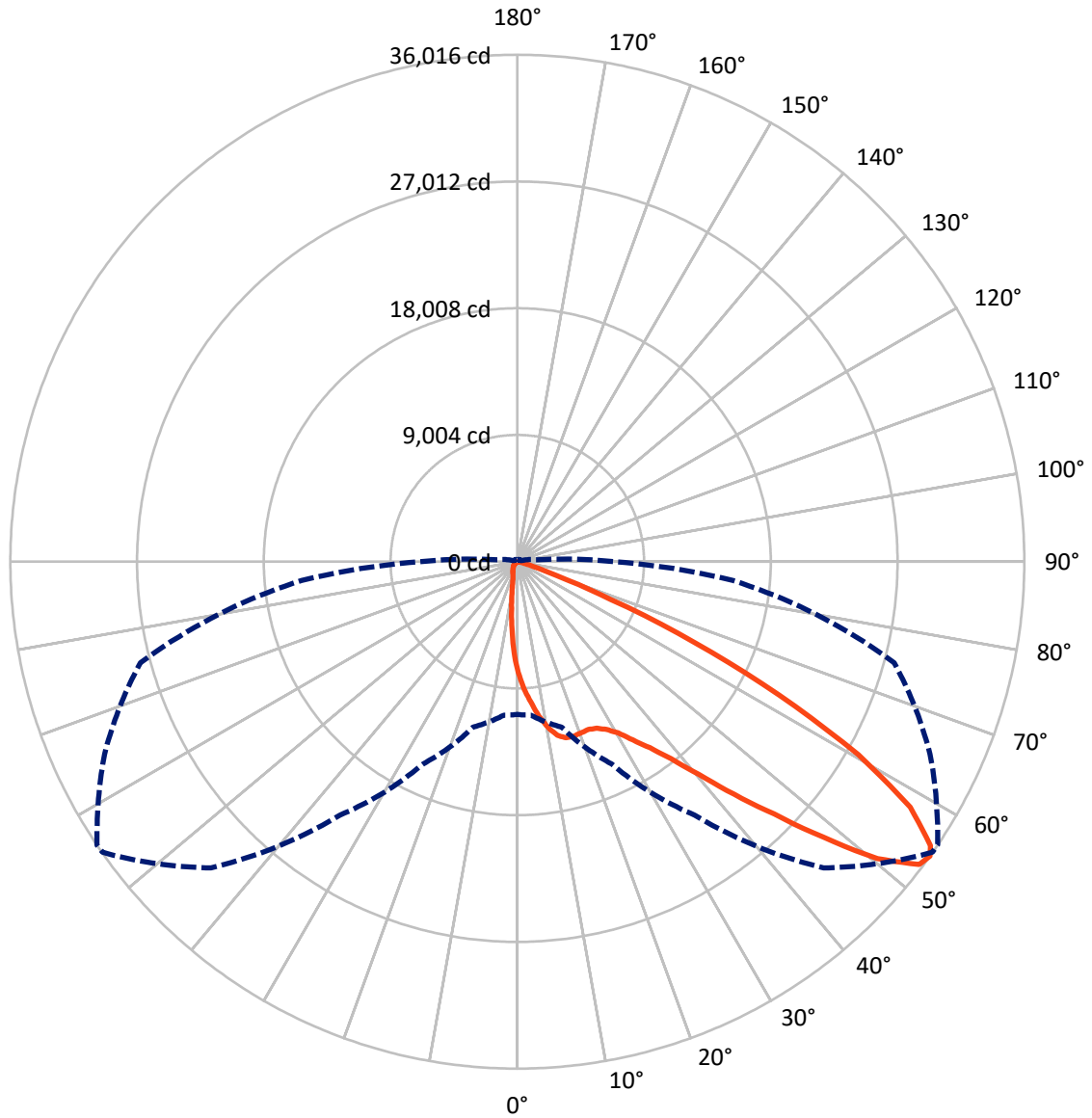
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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	1671.4	0.0	1671.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	33674.6	0.0	33674.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	35346.0	0.0	35346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	693.9	2.0
10°-20°	1875.9	5.3
20°-30°	3248.9	9.2
30°-40°	5608.2	15.9
40°-50°	9545.3	27.0
50°-60°	9446.2	26.7
60°-70°	4311.5	12.2
70°-80°	553.7	1.6
80°-90°	62.4	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°	35346.0	100.0
0°-180°	35346.0	100.0

**Coefficient of Utilization**



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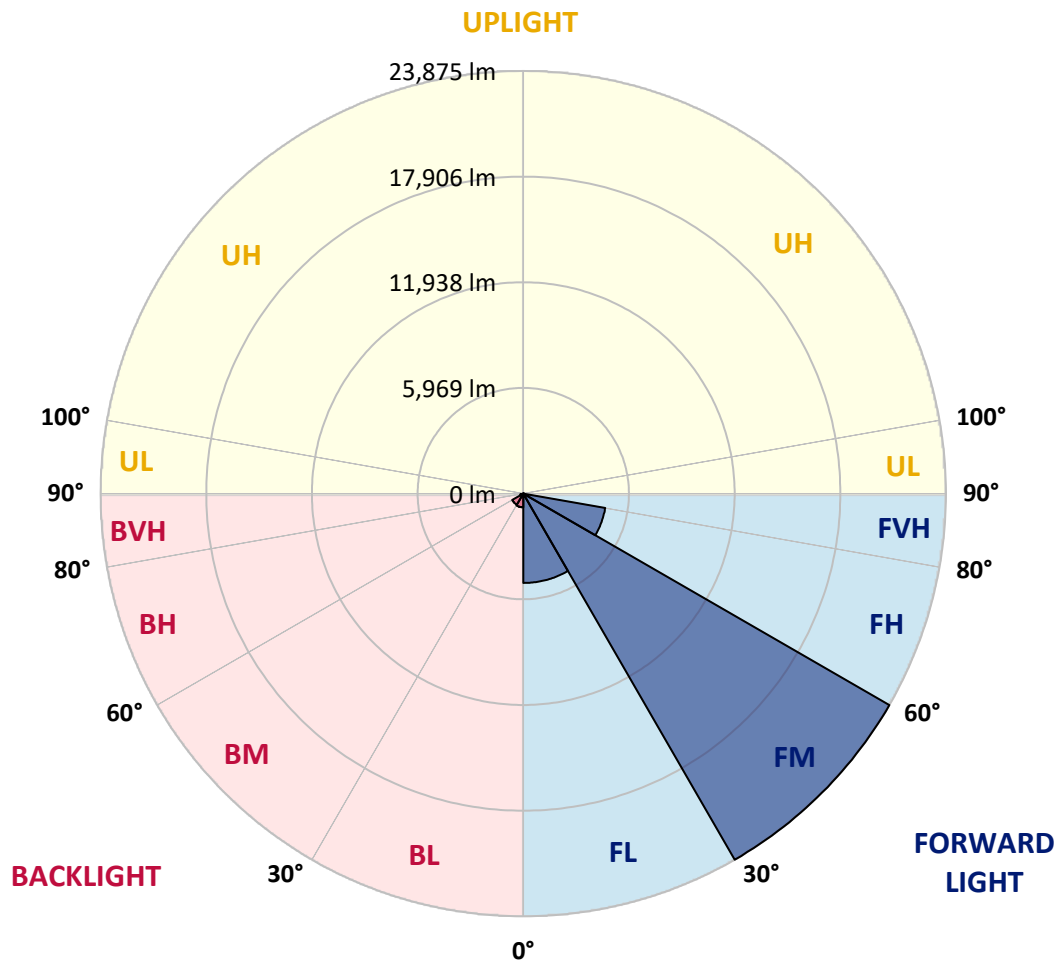
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5045.8	14.3			
FM	(30°-60°)	23875.3	67.5			
FH	(60°-80°)	4697.8	13.3			G2/5000
FVH	(80°-90°)	55.7	0.2			G1/100
BL	(0°-30°)	773.0	2.2	B2/1000		
BM	(30°-60°)	724.4	2.0	B1/1000		
BH	(60°-80°)	167.4	0.5	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	9980.0	9910.9	9815.5	9741.6	9567.5	9317.1	9052.4	9052.4	8797.2	8441.9	8079.4
5°	11511.0	11465.7	11372.7	11181.9	10986.4	10635.8	10104.0	10011.0	9555.6	8911.7	8234.4
7.5°	12133.4	12154.9	12159.7	12109.6	12016.6	11670.8	11143.8	11079.4	10352.0	9488.8	8437.1
10°	11537.2	11642.2	11744.7	11952.2	12245.5	12329.0	12030.9	11964.1	11248.7	10073.0	8656.5
12.5°	10650.1	10707.4	10764.6	11091.3	11680.3	12355.2	12667.6	12665.2	12059.5	10654.9	8935.5
15°	10237.6	10287.7	10292.4	10437.9	10948.2	11930.7	12939.5	12975.2	12851.2	11372.7	9236.0
17.5°	10323.4	10364.0	10330.6	10366.4	10633.4	11463.3	12908.5	13027.7	13492.7	12061.9	9507.9
20°	10883.8	10962.5	10833.8	10733.6	10814.7	11339.3	12803.5	12970.5	13945.8	12734.4	9755.9
22.5°	11890.2	11933.1	11771.0	11496.7	11353.6	11599.3	12774.9	12939.5	14332.1	13285.2	9899.0
25°	13008.6	12994.3	12815.5	12507.8	12207.4	12123.9	12963.3	13111.2	14651.7	13781.3	9941.9
27.5°	14127.0	14170.0	13869.5	13487.9	13127.9	12910.8	13385.4	13495.1	15011.8	14346.4	9994.3
30°	15426.7	15357.6	15061.9	14625.5	14212.9	13910.0	14065.0	14096.0	15507.8	15095.2	10132.7
32.5°	17117.5	16926.7	16595.2	15832.1	15536.4	15023.7	15061.9	15100.0	16111.1	15836.9	10299.6
35°	19411.6	19402.0	18753.4	17725.6	17005.4	16368.7	16201.8	16232.8	17024.5	16938.6	10669.2
37.5°	22173.1	22211.2	21472.0	20437.0	19111.1	18100.0	17756.6	17761.4	18412.4	18460.1	11232.0
40°	24421.9	24522.0	24080.8	23382.1	22072.9	20491.9	19914.8	19862.3	20363.1	20303.5	12035.7
42.5°	25390.1	25483.1	25647.6	25890.8	25170.7	23866.2	22504.6	22576.1	22728.7	22311.4	12937.1
45°	24915.5	25063.4	25709.6	27212.0	27889.2	27450.4	25826.5	25576.1	24929.8	24493.4	13843.3
47.5°	22938.6	23298.7	24378.9	26880.5	29250.9	30734.2	29575.2	29243.8	27133.3	26086.4	14420.4
50°	19688.2	19709.7	21214.4	24412.3	28545.0	32806.5	33402.7	33154.7	29186.5	26980.7	14711.3
52.5°	14272.5	14742.3	16120.7	19824.1	25487.8	32491.7	35842.3	35739.7	31304.1	27438.5	15131.0
54°	10850.5	10941.1	12166.8	15841.7	21975.1	30762.8	35992.5	36016.3	32355.8	27715.2	15379.0
55°	8895.0	8678.0	9965.7	13495.1	19578.5	29234.2	35501.2	35615.7	32828.0	27858.2	15562.6
57.5°	4216.2	4218.6	5203.4	7118.4	12262.2	22700.1	32498.9	32904.3	32880.4	28103.9	16127.8
60°	2134.3	2148.6	2365.6	3286.1	6057.2	15090.5	26871.0	27836.8	30350.3	28139.6	16313.8
62.5°	1492.8	1476.1	1440.4	1581.1	2549.3	7669.2	20005.4	20844.8	25785.9	26778.0	15722.4
65°	1278.2	1242.4	1142.3	1120.8	1287.7	3054.8	12460.1	13829.0	19688.2	23186.6	14038.8
67.5°	1092.2	1077.9	987.3	932.4	911.0	1330.7	6429.2	7149.4	13456.9	16666.8	10633.4
70°	927.7	920.5	865.7	796.5	736.9	796.5	2384.7	2954.7	7499.9	8973.7	5017.4
72.5°	753.6	760.7	770.3	682.0	620.0	565.2	1018.3	1185.2	3138.3	3207.4	1755.1
75°	660.6	653.4	653.4	593.8	517.5	419.7	560.4	603.3	961.0	891.9	407.8
77.5°	465.0	448.3	524.6	488.9	431.6	298.1	319.6	338.6	398.2	341.0	190.8
80°	321.9	321.9	336.2	438.8	388.7	217.0	195.5	209.9	236.1	202.7	109.7
82.5°	181.2	186.0	219.4	233.7	226.5	145.5	128.8	131.2	157.4	138.3	69.2
85°	21.5	35.8	126.4	124.0	93.0	64.4	71.5	73.9	97.8	85.8	40.5
87.5°	2.4	4.8	26.2	33.4	23.8	26.2	26.2	26.2	33.4	38.2	28.6
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°	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9	7852.9
2.5°	7883.9	7702.6	7271.0	6770.2	6450.7	5930.8	5492.0	5174.8	5096.1	4943.5	4988.8
5°	7874.3	7497.5	6617.6	5687.5	4695.5	3956.2	3405.4	2971.4	2780.6	2654.2	2566.0
7.5°	7879.1	7290.1	5878.3	4397.4	3212.2	2487.3	1976.9	1712.2	1535.8	1461.8	1471.4
10°	7893.4	7056.4	5019.8	3257.5	2167.7	1607.3	1294.9	1168.5	1108.9	1099.4	1097.0
12.5°	7926.8	6801.2	4199.5	2418.1	1516.7	1168.5	1049.3	1006.3	987.3	987.3	980.1
15°	7962.6	6519.8	3517.5	1798.1	1168.5	1004.0	949.1	927.7	915.7	915.7	913.3
17.5°	7962.6	6195.5	2880.7	1395.1	1006.3	922.9	880.0	851.3	841.8	841.8	839.4
20°	7912.5	5818.7	2315.6	1123.2	913.3	846.6	803.6	772.6	760.7	756.0	753.6
22.5°	7738.4	5315.5	1843.4	965.8	837.0	779.8	725.0	689.2	679.6	674.9	677.3
25°	7428.4	4748.0	1459.4	849.0	767.9	698.7	651.0	624.8	615.3	615.3	617.6
27.5°	7108.8	4154.2	1156.6	760.7	684.4	622.4	584.3	567.6	565.2	572.3	574.7
30°	6813.1	3558.0	937.2	689.2	610.5	558.0	531.8	527.0	527.0	529.4	531.8
32.5°	6484.0	3035.7	784.6	627.2	550.9	505.6	491.3	491.3	496.0	496.0	500.8
35°	6276.6	2587.4	689.2	567.6	505.6	467.4	457.9	460.2	467.4	476.9	481.7
37.5°	6164.5	2229.7	627.2	519.9	462.6	436.4	426.9	431.6	448.3	465.0	467.4
40°	6174.0	1960.2	577.1	479.3	429.2	400.6	393.5	407.8	424.5	441.2	443.6
42.5°	6279.0	1759.9	529.4	431.6	400.6	360.1	357.7	372.0	379.2	395.9	398.2
45°	6403.0	1614.5	479.3	381.6	348.2	312.4	314.8	326.7	336.2	362.5	367.2
47.5°	6441.1	1514.3	422.1	324.3	286.2	274.2	276.6	283.8	302.9	326.7	329.1
50°	6484.0	1452.3	367.2	274.2	243.2	240.9	243.2	248.0	259.9	269.5	267.1
52.5°	6667.7	1449.9	321.9	238.5	207.5	212.2	214.6	212.2	202.7	188.4	183.6
54°	6839.4	1457.1	300.5	221.8	190.8	197.9	195.5	183.6	159.8	145.5	138.3
55°	6977.7	1464.2	288.6	209.9	181.2	183.6	186.0	162.2	131.2	116.9	112.1
57.5°	7249.5	1447.5	259.9	183.6	159.8	150.2	147.9	107.3	71.5	62.0	57.2
60°	7113.6	1306.8	236.1	157.4	135.9	121.6	100.2	59.6	35.8	26.2	26.2
62.5°	6579.4	1108.9	209.9	128.8	112.1	93.0	52.5	33.4	16.7	9.5	7.2
65°	5885.5	932.4	188.4	102.5	88.2	59.6	28.6	21.5	7.2	0.0	0.0
67.5°	4376.0	691.6	159.8	81.1	66.8	38.2	19.1	11.9	2.4	0.0	0.0
70°	2027.0	422.1	135.9	62.0	47.7	28.6	14.3	7.2	0.0	0.0	0.0
72.5°	581.9	264.7	112.1	45.3	33.4	23.8	11.9	4.8	2.4	0.0	0.0
75°	202.7	212.2	83.5	33.4	26.2	16.7	9.5	4.8	2.4	0.0	0.0
77.5°	121.6	171.7	52.5	28.6	21.5	14.3	9.5	4.8	2.4	2.4	0.0
80°	69.2	114.5	33.4	23.8	19.1	11.9	7.2	4.8	2.4	2.4	0.0
82.5°	38.2	54.8	26.2	21.5	16.7	11.9	7.2	4.8	2.4	2.4	2.4
85°	31.0	28.6	21.5	19.1	14.3	9.5	7.2	2.4	0.0	0.0	0.0
87.5°	23.8	19.1	19.1	19.1	14.3	9.5	7.2	2.4	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)