

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: P533627

Luminaire Tested: **GALN-SA9A-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25213 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

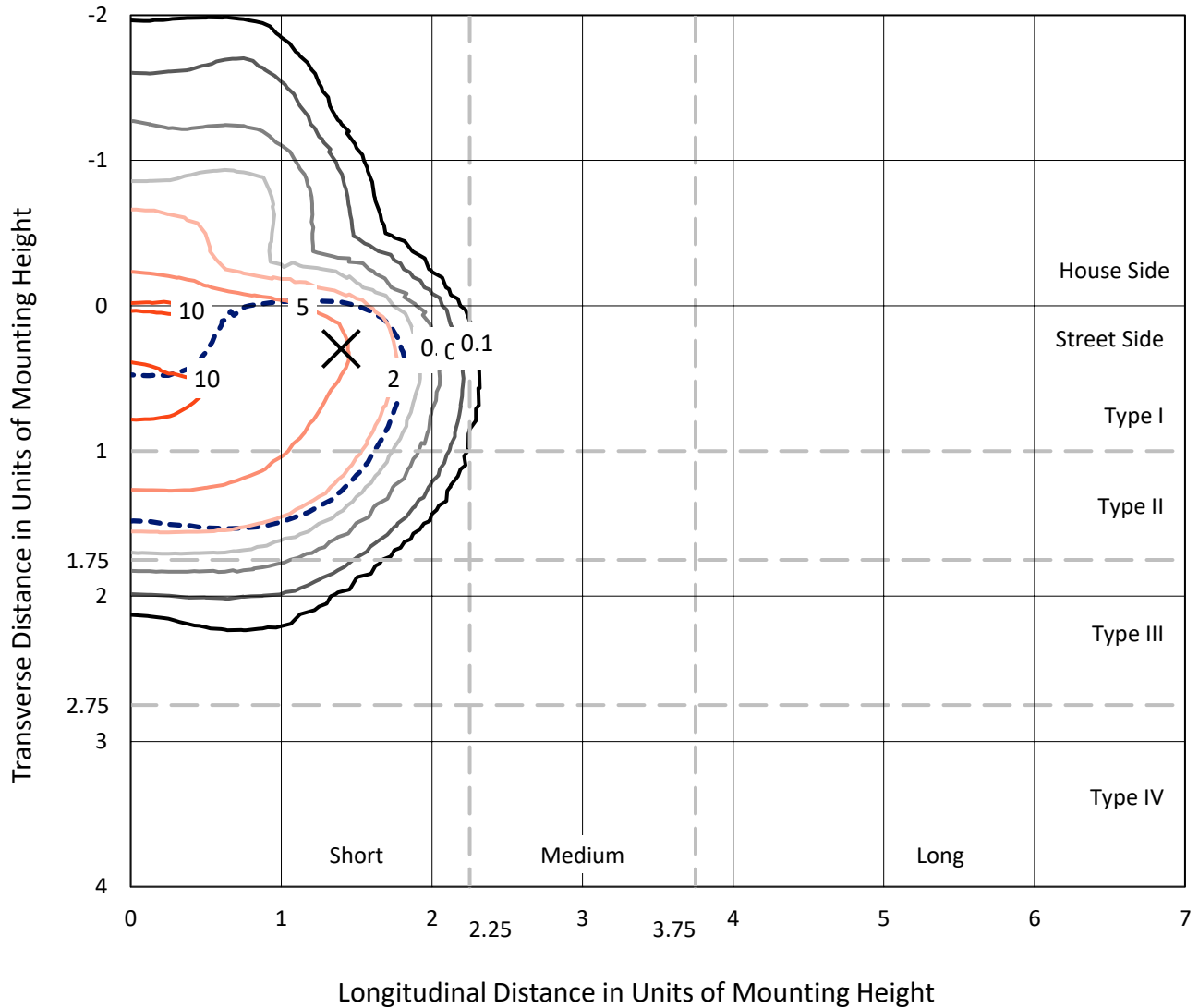
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

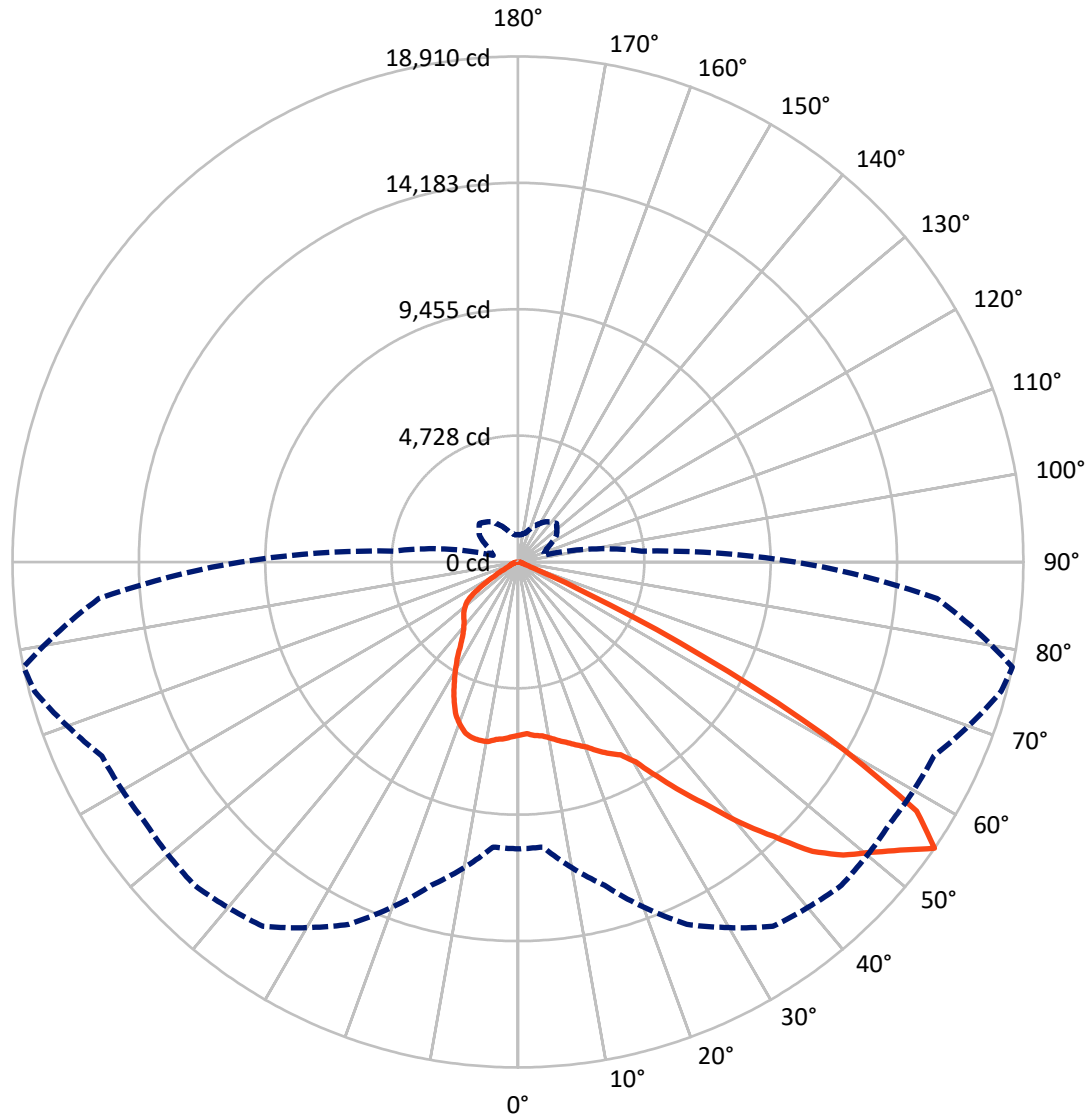
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4683.0	0.0	4683.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20530.0	0.0	20530.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	25213.0	0.0	25213.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.0	2.3
10°-20°	1529.7	6.1
20°-30°	2681.3	10.6
30°-40°	4421.2	17.5
40°-50°	6433.4	25.5
50°-60°	7289.7	28.9
60°-70°	2084.2	8.3
70°-80°	161.8	0.6
80°-90°	33.7	0.1
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°	25213.0	100.0
0°-180°	25213.0	100.0

**Coefficient of Utilization**



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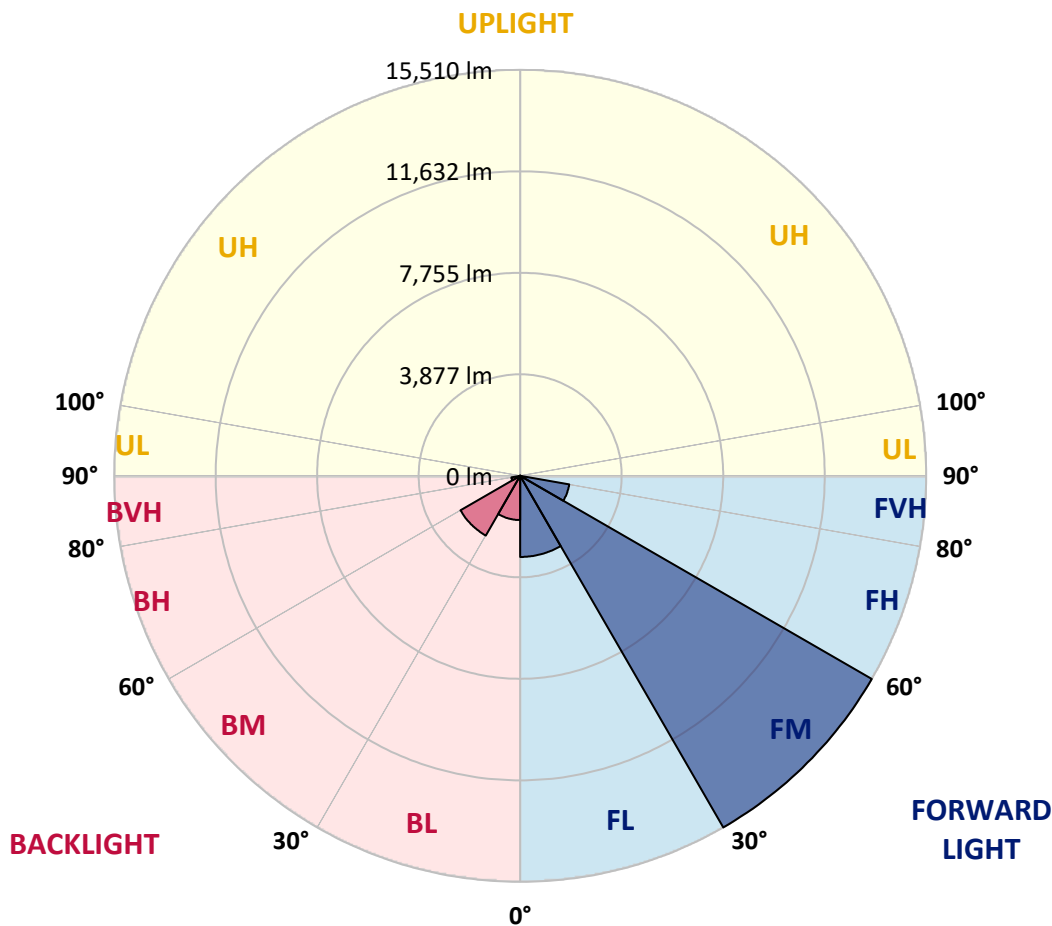
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3099.4	12.3			
FM (30°-60°)	15509.9	61.5			
FH (60°-80°)	1904.2	7.6			G2/5000
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1689.7	6.7	B3/2500		
BM (30°-60°)	2634.3	10.4	B3/5000		
BH (60°-80°)	341.8	1.4	B1/500		G1/500
BVH (80°-90°)	17.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3
2.5°	6094.6	6153.2	6162.2	6234.3	6229.8	6351.5	6387.6	6392.1	6473.3	6432.7	6536.4
5°	5923.3	5891.7	5878.2	6004.4	6040.5	6148.7	6238.9	6292.9	6459.7	6518.3	6626.5
7.5°	5770.0	5770.0	5779.1	5891.7	5878.2	6018.0	6112.6	6279.4	6522.8	6572.4	6703.2
10°	5621.3	5567.2	5634.8	5752.0	5851.2	5914.3	6112.6	6270.4	6554.4	6698.7	6879.0
12.5°	5544.6	5571.7	5580.7	5666.4	5774.5	5963.9	6072.1	6333.5	6779.8	6865.4	7059.3
15°	6027.0	5972.9	5842.2	5765.5	5855.7	5945.8	6216.3	6482.3	6897.0	7018.7	7235.1
17.5°	6586.0	6540.9	6432.7	6225.3	6022.5	6189.3	6401.1	6644.6	7023.2	7203.5	7523.6
20°	7316.2	7244.1	7135.9	6730.2	6554.4	6374.1	6599.5	6888.0	7230.6	7392.9	7721.9
22.5°	8186.2	8186.2	7942.8	7451.5	7086.3	6915.0	7009.7	7176.5	7460.5	7681.4	8005.9
25°	9092.3	9065.3	8844.4	8335.0	7717.4	7514.6	7622.8	7740.0	7816.6	7938.3	8154.7
27.5°	10129.1	9971.3	9691.9	9128.4	8582.9	8190.7	8308.0	8204.3	8109.6	8172.7	8483.8
30°	10832.3	10931.5	10575.4	10034.5	9520.6	9083.3	9105.8	9015.7	8582.9	8673.1	8857.9
32.5°	11562.6	11625.7	11427.4	11129.9	10616.0	10106.6	9921.8	9845.1	9520.6	9561.1	9380.8
35°	12171.2	12292.9	12117.1	11986.4	11837.6	11427.4	10918.0	11165.9	10643.0	10543.8	10075.0
37.5°	12730.1	12694.1	12901.4	12766.2	12734.7	12446.2	11887.2	11936.8	11585.2	11562.6	11021.7
40°	13230.5	13239.5	13523.5	13586.6	13460.4	12946.5	12135.1	12527.3	12811.3	12838.3	12144.1
42.5°	13645.2	13767.0	14010.4	14519.8	14330.4	13473.9	12392.1	12820.3	13875.1	14041.9	13208.0
45°	14005.9	14253.8	14555.8	15011.1	14902.9	14222.2	13032.2	13424.4	15011.1	15448.4	14208.7
47.5°	14028.4	14353.0	14682.0	15358.2	15493.5	14623.4	13694.8	14380.0	15912.7	16386.0	14939.0
50°	13938.2	14109.5	14767.7	15502.5	15809.0	15277.1	14623.4	15182.4	16787.2	17084.7	15308.6
52.5°	12869.9	13000.6	14321.4	15637.7	16377.0	16016.4	15854.1	16300.4	17679.8	17900.6	15655.7
55°	10728.7	10706.1	12522.8	14957.0	16638.4	17111.8	17012.6	17170.4	18712.1	18910.4	15741.4
57.5°	7338.8	7749.0	9317.7	12455.2	15038.2	16854.8	16958.5	16697.0	17508.5	17585.1	13721.9
60°	3957.9	4129.2	5391.4	8312.5	11449.9	13735.4	14005.9	13532.5	13469.4	13253.1	9795.5
62.5°	1573.2	1658.9	2375.6	4115.7	6238.9	8348.5	8930.0	8736.2	8321.5	7753.5	5071.3
65°	748.3	802.4	1181.1	1924.8	2767.8	3480.1	4061.6	4241.9	3128.4	2817.4	1672.4
67.5°	509.4	550.0	861.0	1099.9	987.2	1032.3	1343.3	1248.7	734.8	626.6	464.3
70°	387.7	414.7	689.7	748.3	441.8	311.0	347.1	324.6	302.0	306.5	302.0
72.5°	275.0	297.5	504.9	441.8	193.8	144.3	184.8	220.9	220.9	220.9	216.4
75°	166.8	189.3	293.0	171.3	76.6	76.6	117.2	148.8	157.8	162.3	153.3
77.5°	85.6	108.2	99.2	49.6	49.6	58.6	85.6	103.7	112.7	112.7	108.2
80°	18.0	18.0	18.0	27.0	49.6	63.1	85.6	94.7	108.2	108.2	99.2
82.5°	0.0	4.5	13.5	27.0	45.1	58.6	81.1	94.7	108.2	112.7	103.7
85°	0.0	4.5	9.0	18.0	31.6	36.1	31.6	27.0	27.0	27.0	27.0
87.5°	0.0	0.0	4.5	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0
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°	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3	6482.3
2.5°	6545.4	6558.9	6536.4	6531.9	6513.8	6567.9	6437.2	6405.6	6486.8	6410.2	6428.2
5°	6631.0	6662.6	6622.0	6554.4	6455.2	6302.0	6171.2	5999.9	5918.8	5860.2	5851.2
7.5°	6694.1	6716.7	6676.1	6459.7	6162.2	5774.5	5486.0	5274.2	5107.4	5057.8	4976.7
10°	6951.1	6955.6	6752.7	6274.9	5693.4	5184.0	4742.3	4417.7	4250.9	4147.2	4102.1
12.5°	7122.4	7113.4	6703.2	5909.8	5134.4	4458.3	3953.4	3561.2	3407.9	3358.3	3326.8
15°	7338.8	7289.2	6586.0	5535.6	4413.2	3682.9	3227.6	2957.1	2943.6	2912.1	2943.6
17.5°	7510.1	7370.3	6414.7	4854.9	3723.5	3033.8	2736.3	2754.3	2790.4	2821.9	2826.4
20°	7789.6	7501.0	6022.5	4259.9	3083.4	2601.0	2596.5	2677.7	2767.8	2803.9	2839.9
22.5°	8001.4	7555.1	5603.2	3624.3	2560.5	2425.2	2501.9	2623.6	2691.2	2727.2	2781.3
25°	8078.1	7406.4	5044.3	2988.7	2308.0	2344.1	2461.3	2542.4	2628.1	2668.6	2646.1
27.5°	8154.7	7329.8	4377.1	2461.3	2172.8	2290.0	2389.2	2470.3	2497.3	2551.4	2587.5
30°	8339.5	7063.8	3777.6	2127.7	2105.2	2253.9	2326.0	2353.1	2425.2	2456.8	2456.8
32.5°	8488.3	6960.1	3142.0	1969.9	2096.1	2272.0	2281.0	2281.0	2290.0	2267.4	2258.4
35°	8794.8	6604.0	2574.0	1875.3	2091.6	2276.5	2299.0	2222.4	2015.0	1933.9	1911.3
37.5°	9173.5	6374.1	2154.7	1852.7	2123.2	2330.6	2366.6	2078.1	1807.6	1676.9	1654.4
40°	9633.3	6211.8	1879.8	1843.7	2195.3	2456.8	2348.6	1965.4	1613.8	1424.5	1415.5
42.5°	10169.7	6063.0	1694.9	1839.2	2285.5	2587.5	2330.6	1870.8	1415.5	1289.2	1307.3
45°	10597.9	5981.9	1568.7	1807.6	2317.0	2664.1	2344.1	1704.0	1334.3	1253.2	1262.2
47.5°	10931.5	5810.6	1465.0	1753.6	2312.5	2691.2	2222.4	1636.3	1293.8	1316.3	1338.8
50°	10940.5	5580.7	1334.3	1636.3	2244.9	2641.6	2082.6	1573.2	1284.7	1379.4	1424.5
52.5°	10818.8	5256.1	1194.6	1469.6	2087.1	2470.3	1956.4	1546.2	1244.2	1235.1	1289.2
55°	10386.1	4647.6	960.2	1190.1	1762.6	2037.5	1843.7	1496.6	1122.5	1018.8	1027.8
57.5°	8393.6	3331.3	707.7	852.0	1248.7	1492.1	1663.4	1474.1	1009.8	865.5	870.0
60°	5197.5	1888.8	518.4	581.5	770.8	906.1	1347.8	1370.4	901.6	730.3	721.3
62.5°	2668.6	933.1	401.2	410.2	473.3	531.9	924.1	1149.5	815.9	694.2	694.2
65°	892.6	459.8	351.6	315.5	315.5	329.1	559.0	797.9	689.7	581.5	581.5
67.5°	383.2	342.6	306.5	275.0	252.4	238.9	315.5	464.3	513.9	441.8	423.7
70°	297.5	288.5	266.0	229.9	198.3	180.3	184.8	238.9	293.0	284.0	275.0
72.5°	220.9	220.9	211.9	180.3	153.3	130.7	121.7	126.2	139.7	144.3	148.8
75°	153.3	157.8	157.8	139.7	112.7	94.7	81.1	67.6	54.1	45.1	40.6
77.5°	103.7	108.2	117.2	103.7	85.6	63.1	49.6	36.1	22.5	9.0	9.0
80°	90.2	103.7	112.7	103.7	90.2	67.6	49.6	27.0	13.5	0.0	0.0
82.5°	94.7	103.7	117.2	99.2	85.6	63.1	49.6	31.6	13.5	4.5	0.0
85°	22.5	22.5	27.0	31.6	40.6	45.1	36.1	22.5	13.5	4.5	0.0
87.5°	9.0	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5	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)