

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: P532769

Luminaire Tested: **GALN-SA8A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532769  
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-SA8A-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 16510 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

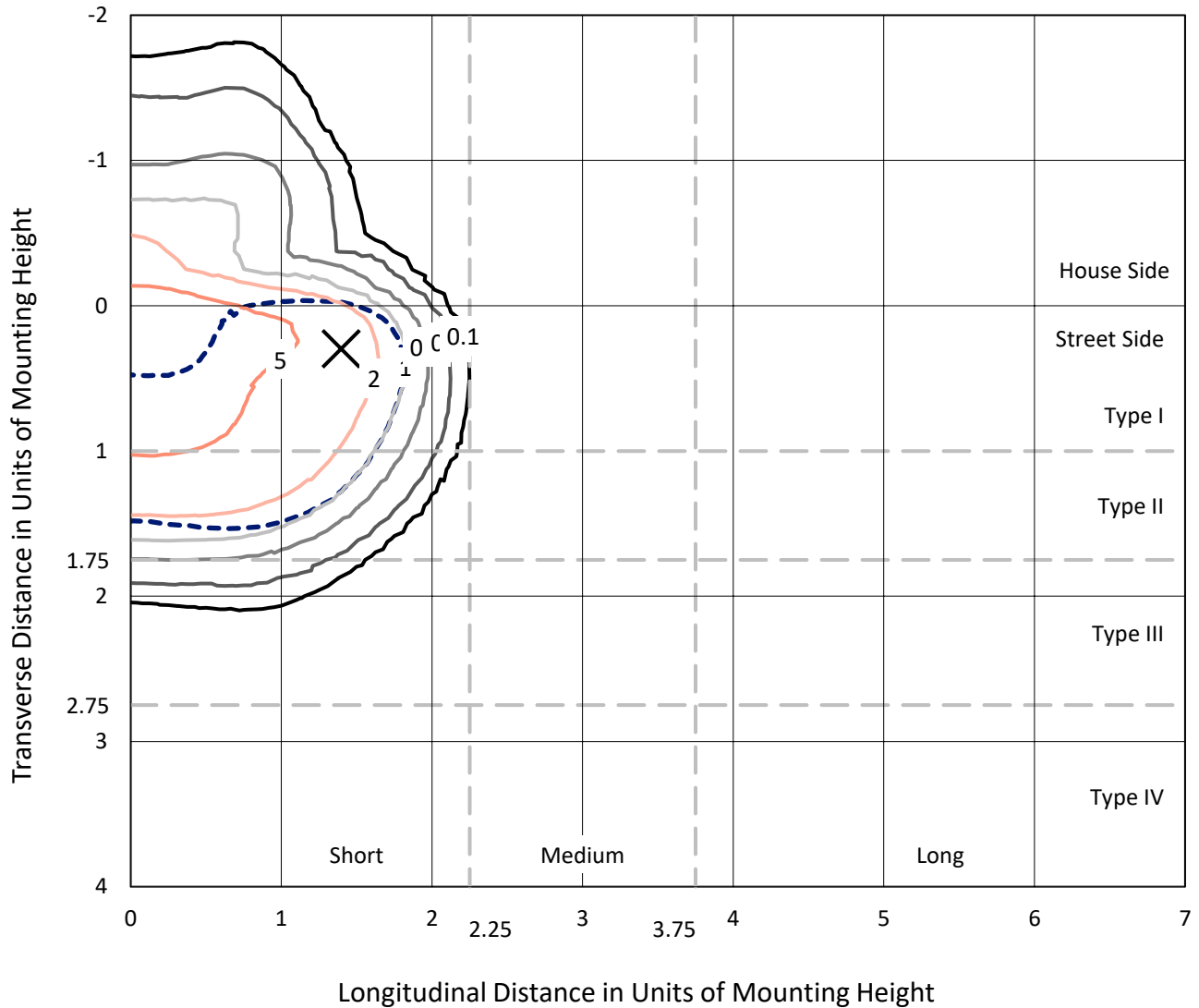
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

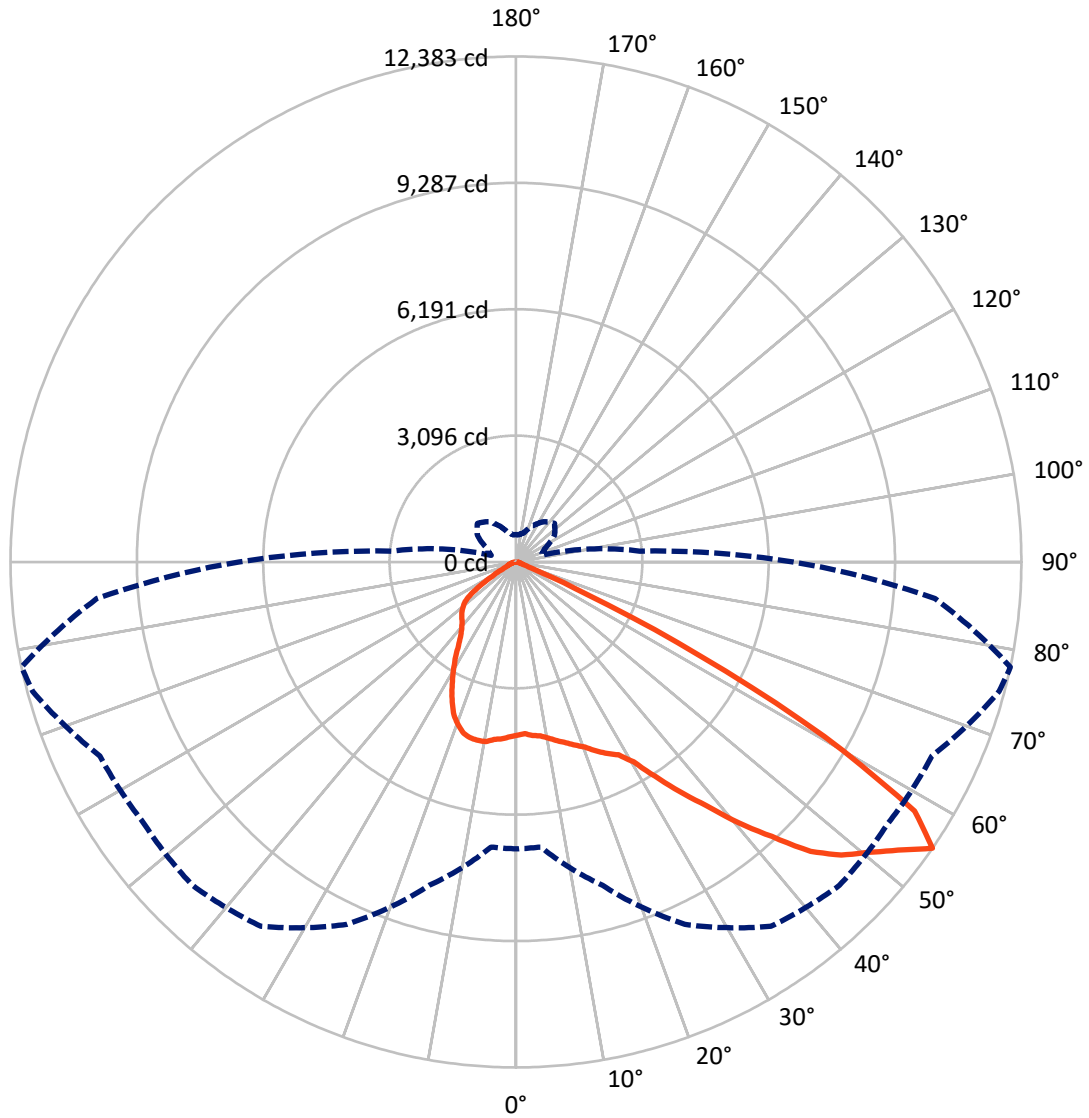
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3066.6	0.0	3066.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13443.4	0.0	13443.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16510.0	0.0	16510.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.5	2.3
10°-20°	1001.7	6.1
20°-30°	1755.8	10.6
30°-40°	2895.1	17.5
40°-50°	4212.7	25.5
50°-60°	4773.4	28.9
60°-70°	1364.8	8.3
70°-80°	106.0	0.6
80°-90°	22.1	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°	16510.0	100.0
0°-180°	16510.0	100.0

**Coefficient of Utilization**



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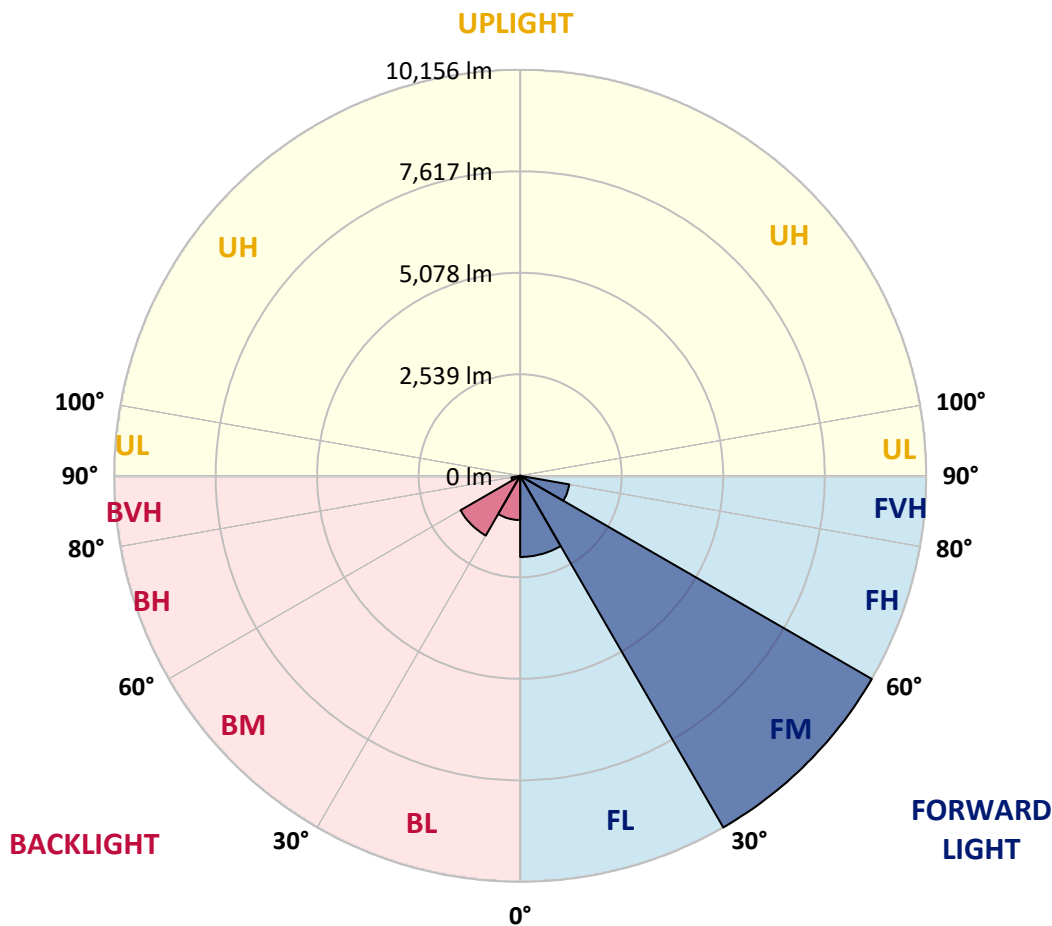
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.6	12.3			
FM (30°-60°)	10156.2	61.5			
FH (60°-80°)	1246.9	7.6			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1106.4	6.7	B3/2500		
BM (30°-60°)	1725.0	10.4	B2/2500		
BH (60°-80°)	223.8	1.4	B1/500		G1/500
BVH (80°-90°)	11.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7
2.5°	3990.9	4029.2	4035.2	4082.4	4079.4	4159.1	4182.7	4185.7	4238.8	4212.3	4280.2
5°	3878.7	3858.0	3849.2	3931.8	3955.5	4026.3	4085.3	4120.8	4230.0	4268.3	4339.2
7.5°	3778.3	3778.3	3784.2	3858.0	3849.2	3940.7	4002.7	4111.9	4271.3	4303.8	4389.4
10°	3680.9	3645.5	3689.8	3766.5	3831.5	3872.8	4002.7	4106.0	4292.0	4386.4	4504.5
12.5°	3630.8	3648.5	3654.4	3710.4	3781.3	3905.3	3976.1	4147.3	4439.6	4495.6	4622.6
15°	3946.6	3911.2	3825.6	3775.4	3834.4	3893.5	4070.6	4244.7	4516.3	4596.0	4737.7
17.5°	4312.6	4283.1	4212.3	4076.5	3943.6	4052.9	4191.6	4351.0	4599.0	4717.0	4926.6
20°	4790.8	4743.6	4672.7	4407.1	4292.0	4173.9	4321.5	4510.4	4734.7	4841.0	5056.5
22.5°	5360.5	5360.5	5201.1	4879.4	4640.3	4528.1	4590.1	4699.3	4885.3	5029.9	5242.4
25°	5953.8	5936.1	5791.5	5457.9	5053.5	4920.7	4991.5	5068.3	5118.5	5198.2	5339.9
27.5°	6632.8	6529.4	6346.4	5977.5	5620.3	5363.5	5440.2	5372.3	5310.3	5351.7	5555.3
30°	7093.2	7158.2	6925.0	6570.8	6234.3	5947.9	5962.7	5903.7	5620.3	5679.3	5800.3
32.5°	7571.4	7612.8	7482.9	7288.1	6951.6	6618.0	6497.0	6446.8	6234.3	6260.8	6142.8
35°	7969.9	8049.6	7934.5	7848.9	7751.5	7482.9	7149.3	7311.7	6969.3	6904.3	6597.3
37.5°	8336.0	8312.4	8448.1	8359.6	8338.9	8150.0	7784.0	7816.4	7586.2	7571.4	7217.2
40°	8663.6	8669.5	8855.5	8896.8	8814.2	8477.7	7946.3	8203.1	8389.1	8406.8	7952.2
42.5°	8935.2	9014.9	9174.3	9507.8	9383.9	8823.0	8114.6	8395.0	9085.7	9194.9	8648.9
45°	9171.3	9333.7	9531.5	9829.6	9758.7	9313.0	8533.7	8790.5	9829.6	10115.9	9304.2
47.5°	9186.1	9398.6	9614.1	10056.9	10145.4	9575.7	8967.7	9416.3	10420.0	10729.9	9782.4
50°	9127.1	9239.2	9670.2	10151.3	10352.1	10003.7	9575.7	9941.8	10992.6	11187.4	10024.4
52.5°	8427.5	8513.1	9378.0	10239.9	10724.0	10487.8	10381.6	10673.8	11577.1	11721.7	10251.7
55°	7025.4	7010.6	8200.2	9794.2	10895.2	11205.1	11140.2	11243.5	12253.0	12382.9	10307.8
57.5°	4805.6	5074.2	6101.4	8155.9	9847.3	11036.9	11104.8	10933.6	11464.9	11515.1	8985.4
60°	2591.7	2703.9	3530.4	5443.2	7497.6	8994.2	9171.3	8861.4	8820.1	8678.4	6414.3
62.5°	1030.2	1086.3	1555.6	2695.0	4085.3	5466.8	5847.6	5720.6	5449.1	5077.1	3320.8
65°	490.0	525.4	773.4	1260.4	1812.4	2278.8	2659.6	2777.7	2048.6	1844.9	1095.1
67.5°	333.6	360.1	563.8	720.2	646.5	676.0	879.6	817.7	481.1	410.3	304.0
70°	253.9	271.6	451.6	490.0	289.3	203.7	227.3	212.5	197.8	200.7	197.8
72.5°	180.1	194.8	330.6	289.3	126.9	94.5	121.0	144.6	144.6	144.6	141.7
75°	109.2	124.0	191.9	112.2	50.2	50.2	76.7	97.4	103.3	106.3	100.4
77.5°	56.1	70.8	64.9	32.5	32.5	38.4	56.1	67.9	73.8	73.8	70.8
80°	11.8	11.8	11.8	17.7	32.5	41.3	56.1	62.0	70.8	70.8	64.9
82.5°	0.0	3.0	8.9	17.7	29.5	38.4	53.1	62.0	70.8	73.8	67.9
85°	0.0	3.0	5.9	11.8	20.7	23.6	20.7	17.7	17.7	17.7	17.7
87.5°	0.0	0.0	3.0	3.0	3.0	5.9	5.9	5.9	5.9	5.9	5.9
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°	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7	4244.7
2.5°	4286.1	4294.9	4280.2	4277.2	4265.4	4300.8	4215.2	4194.5	4247.7	4197.5	4209.3
5°	4342.1	4362.8	4336.2	4292.0	4227.0	4126.7	4041.1	3928.9	3875.8	3837.4	3831.5
7.5°	4383.5	4398.2	4371.7	4230.0	4035.2	3781.3	3592.4	3453.6	3344.4	3312.0	3258.8
10°	4551.7	4554.7	4421.8	4108.9	3728.2	3394.6	3105.3	2892.8	2783.6	2715.7	2686.2
12.5°	4663.9	4658.0	4389.4	3869.8	3362.1	2919.4	2588.8	2331.9	2231.6	2199.1	2178.5
15°	4805.6	4773.1	4312.6	3624.8	2889.8	2411.6	2113.5	1936.4	1927.5	1906.9	1927.5
17.5°	4917.7	4826.2	4200.5	3179.1	2438.2	1986.6	1791.8	1803.6	1827.2	1847.8	1850.8
20°	5100.8	4911.8	3943.6	2789.5	2019.1	1703.2	1700.3	1753.4	1812.4	1836.0	1859.7
22.5°	5239.5	4947.3	3669.1	2373.3	1676.6	1588.1	1638.3	1718.0	1762.2	1785.9	1821.3
25°	5289.7	4849.9	3303.1	1957.1	1511.3	1535.0	1611.7	1664.8	1720.9	1747.5	1732.7
27.5°	5339.9	4799.7	2866.2	1611.7	1422.8	1499.5	1564.5	1617.6	1635.3	1670.7	1694.4
30°	5460.9	4625.5	2473.6	1393.3	1378.5	1475.9	1523.1	1540.9	1588.1	1608.7	1608.7
32.5°	5558.3	4557.6	2057.4	1289.9	1372.6	1487.7	1493.6	1493.6	1499.5	1484.8	1478.9
35°	5759.0	4324.4	1685.5	1228.0	1369.6	1490.7	1505.4	1455.3	1319.5	1266.3	1251.6
37.5°	6007.0	4173.9	1411.0	1213.2	1390.3	1526.1	1549.7	1360.8	1183.7	1098.1	1083.3
40°	6308.1	4067.6	1230.9	1207.3	1437.5	1608.7	1537.9	1287.0	1056.8	932.8	926.9
42.5°	6659.3	3970.2	1109.9	1204.3	1496.6	1694.4	1526.1	1225.0	926.9	844.2	856.0
45°	6939.8	3917.1	1027.2	1183.7	1517.2	1744.5	1535.0	1115.8	873.7	820.6	826.5
47.5°	7158.2	3804.9	959.3	1148.3	1514.3	1762.2	1455.3	1071.5	847.2	861.9	876.7
50°	7164.1	3654.4	873.7	1071.5	1470.0	1729.8	1363.7	1030.2	841.3	903.3	932.8
52.5°	7084.4	3441.8	782.2	962.3	1366.7	1617.6	1281.1	1012.5	814.7	808.8	844.2
55°	6801.0	3043.3	628.7	779.3	1154.2	1334.2	1207.3	980.0	735.0	667.1	673.0
57.5°	5496.3	2181.4	463.4	557.9	817.7	977.1	1089.2	965.2	661.2	566.8	569.7
60°	3403.5	1236.8	339.5	380.8	504.8	593.3	882.6	897.4	590.4	478.2	472.3
62.5°	1747.5	611.0	262.7	268.6	309.9	348.3	605.1	752.7	534.3	454.6	454.6
65°	584.5	301.1	230.2	206.6	206.6	215.5	366.0	522.5	451.6	380.8	380.8
67.5°	250.9	224.3	200.7	180.1	165.3	156.4	206.6	304.0	336.5	289.3	277.5
70°	194.8	188.9	174.2	150.5	129.9	118.1	121.0	156.4	191.9	186.0	180.1
72.5°	144.6	144.6	138.7	118.1	100.4	85.6	79.7	82.7	91.5	94.5	97.4
75°	100.4	103.3	103.3	91.5	73.8	62.0	53.1	44.3	35.4	29.5	26.6
77.5°	67.9	70.8	76.7	67.9	56.1	41.3	32.5	23.6	14.8	5.9	5.9
80°	59.0	67.9	73.8	67.9	59.0	44.3	32.5	17.7	8.9	0.0	0.0
82.5°	62.0	67.9	76.7	64.9	56.1	41.3	32.5	20.7	8.9	3.0	0.0
85°	14.8	14.8	17.7	20.7	26.6	29.5	23.6	14.8	8.9	3.0	0.0
87.5°	5.9	5.9	5.9	5.9	5.9	3.0	3.0	3.0	3.0	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)