

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: P647409

Luminaire Tested: **GALN-SA4D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647409  
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-SA4D-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA 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: 14573.2 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

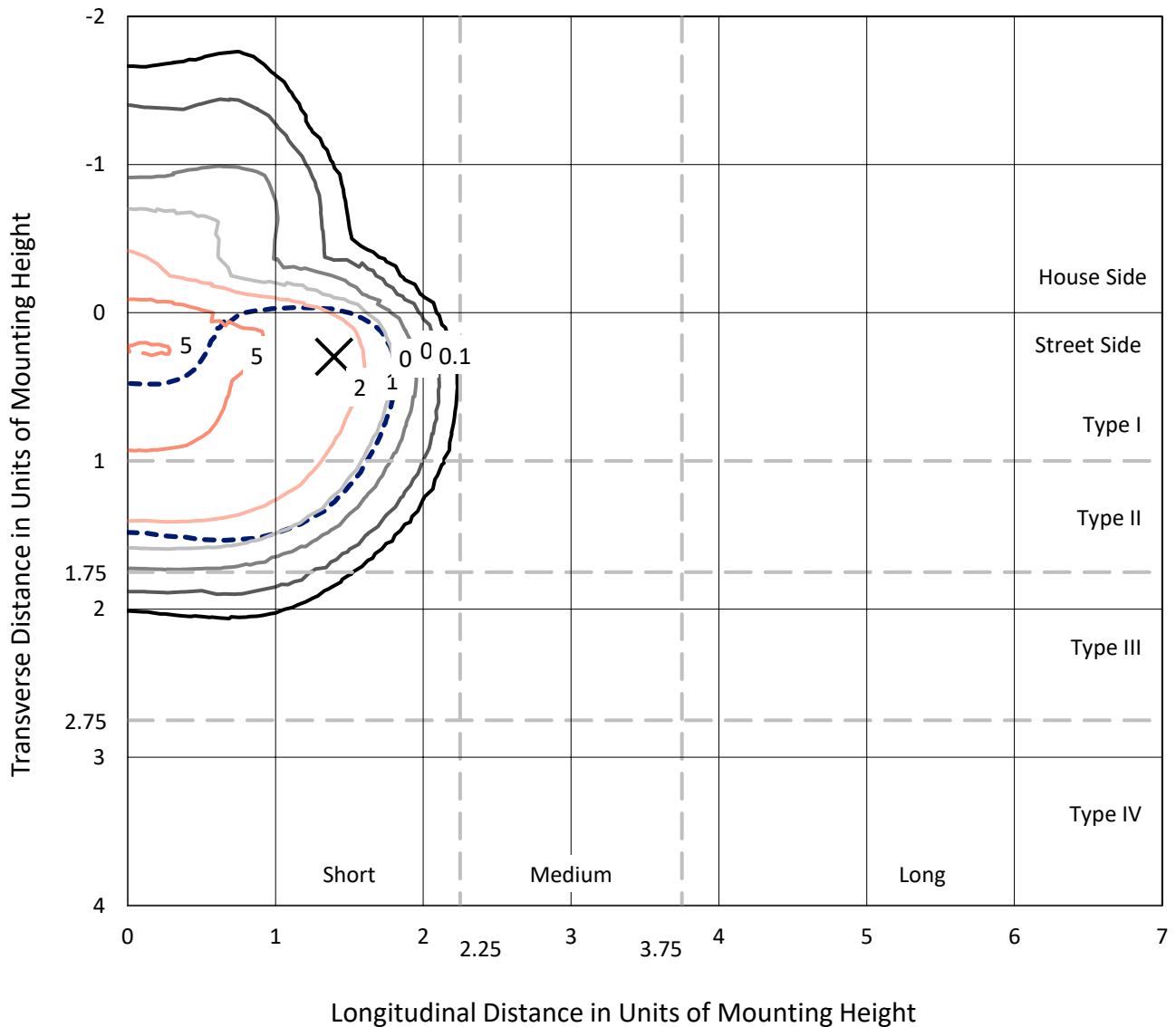
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

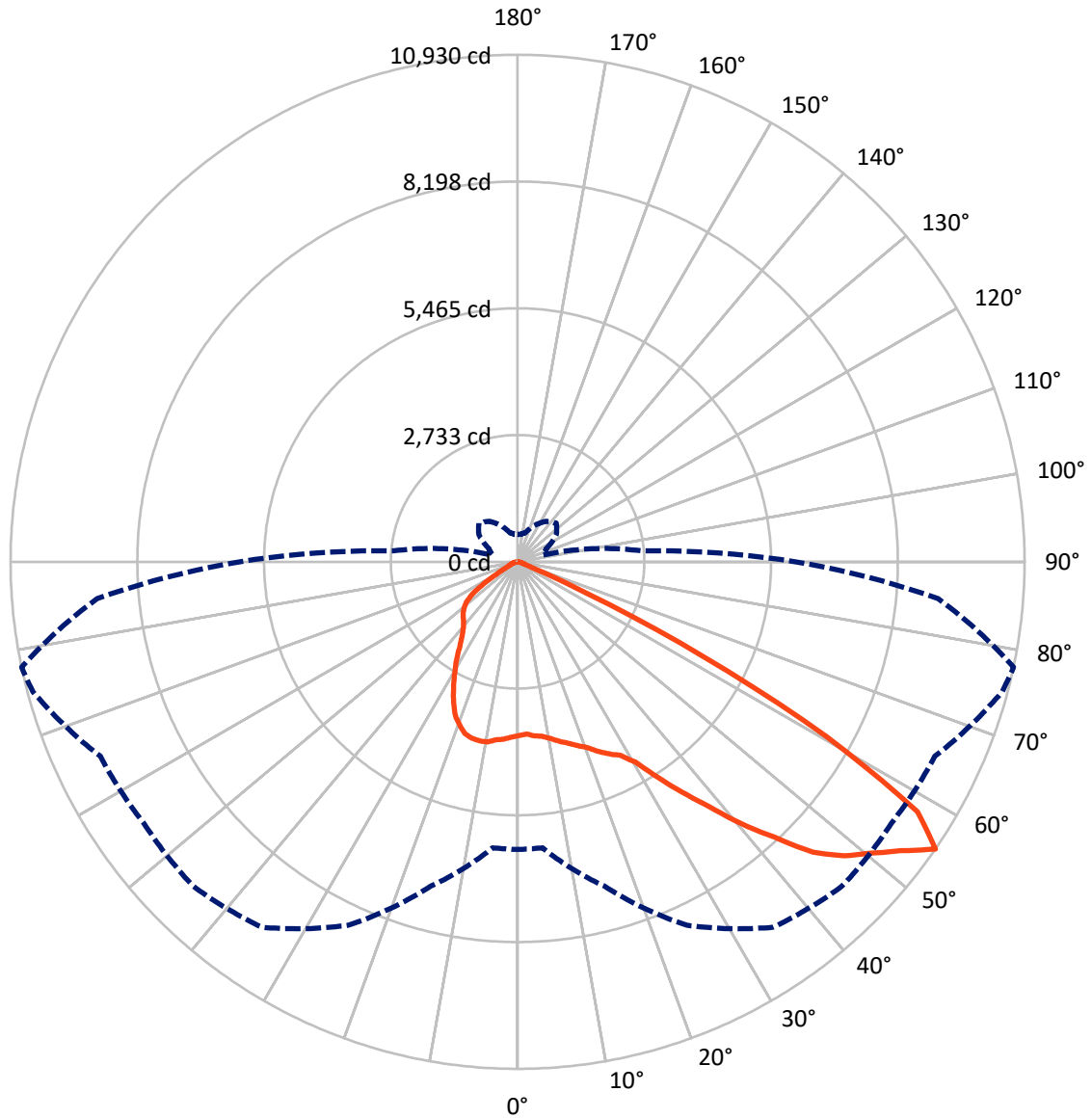
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2706.8	0.0	2706.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	11866.4	0.0	11866.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	14573.2	0.0	14573.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	2.3
10°-20°	884.2	6.1
20°-30°	1549.8	10.6
30°-40°	2555.5	17.5
40°-50°	3718.5	25.5
50°-60°	4213.4	28.9
60°-70°	1204.7	8.3
70°-80°	93.5	0.6
80°-90°	19.5	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°	14573.2	100.0
0°-180°	14573.2	100.0

**Coefficient of Utilization**



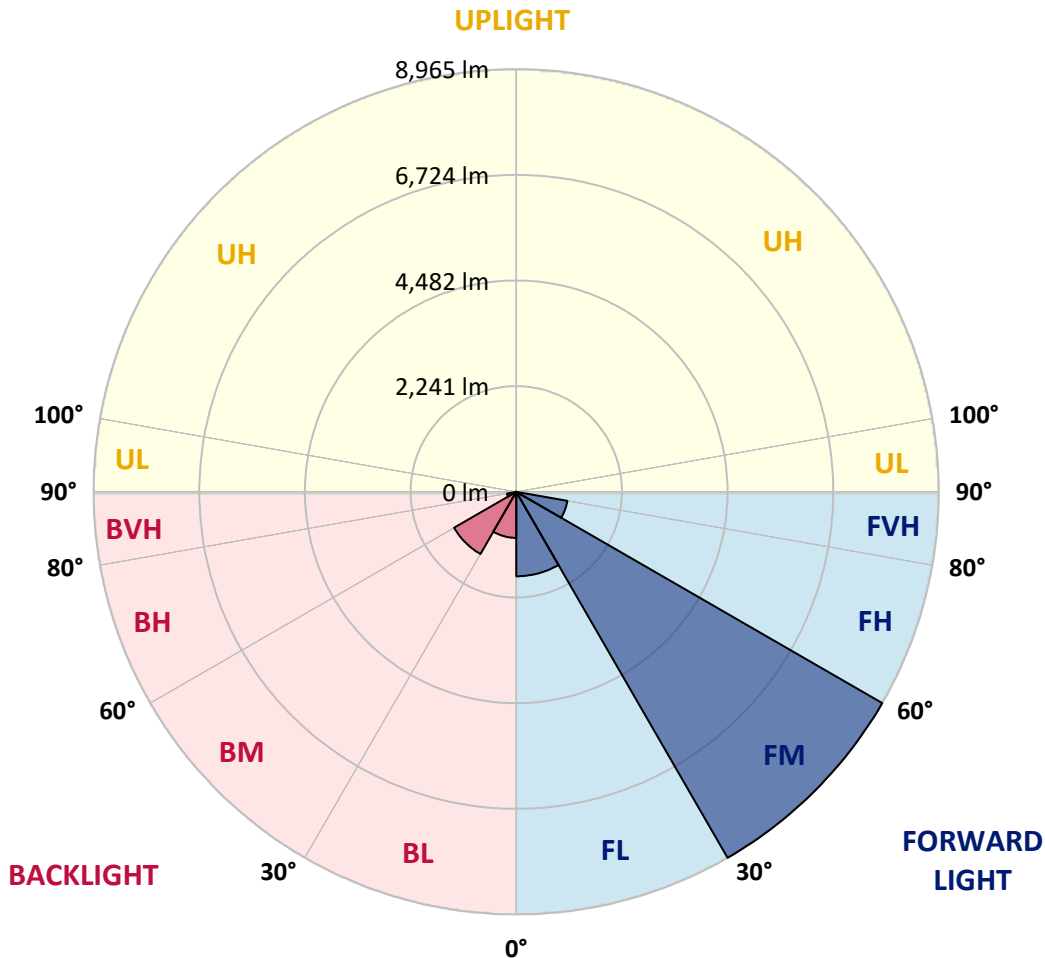
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.5	12.3			
FM (30°-60°)	8964.8	61.5			
FH (60°-80°)	1100.7	7.6			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	976.6	6.7	B2/1000		
BM (30°-60°)	1522.6	10.4	B2/2500		
BH (60°-80°)	197.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8
2.5°	3522.7	3556.5	3561.8	3603.4	3600.9	3671.3	3692.1	3694.7	3741.6	3718.2	3778.1
5°	3423.7	3405.4	3397.7	3470.6	3491.4	3554.0	3606.1	3637.3	3733.7	3767.6	3830.1
7.5°	3335.1	3335.1	3340.3	3405.4	3397.7	3478.4	3533.1	3629.5	3770.2	3798.9	3874.4
10°	3249.1	3217.8	3257.0	3324.7	3382.0	3418.5	3533.1	3624.4	3788.5	3871.9	3976.1
12.5°	3204.8	3220.5	3225.6	3275.2	3337.7	3447.2	3509.6	3660.8	3918.8	3968.2	4080.3
15°	3483.6	3452.3	3376.8	3332.5	3384.6	3436.7	3593.0	3746.8	3986.5	4056.8	4181.9
17.5°	3806.7	3780.6	3718.2	3598.3	3481.0	3577.4	3699.9	3840.6	4059.5	4163.7	4348.6
20°	4228.8	4187.1	4124.6	3890.1	3788.5	3684.2	3814.5	3981.2	4179.3	4273.1	4463.3
22.5°	4731.7	4731.7	4591.0	4307.0	4096.0	3996.9	4051.6	4148.0	4312.2	4439.8	4627.5
25°	5255.4	5239.8	5112.1	4817.6	4460.7	4343.5	4406.0	4473.7	4518.0	4588.4	4713.4
27.5°	5854.6	5763.5	5601.9	5276.2	4960.9	4734.3	4802.1	4742.1	4687.4	4723.8	4903.6
30°	6261.1	6318.4	6112.6	5799.9	5502.9	5250.2	5263.2	5211.1	4960.9	5013.1	5119.9
32.5°	6683.2	6719.7	6605.1	6433.1	6136.1	5841.6	5734.8	5690.5	5502.9	5526.3	5422.1
35°	7034.9	7105.3	7003.7	6928.1	6842.2	6605.1	6310.7	6454.0	6151.7	6094.4	5823.4
37.5°	7358.1	7337.3	7457.1	7378.9	7360.7	7193.9	6870.8	6899.5	6696.3	6683.2	6370.6
40°	7647.2	7652.5	7816.6	7853.1	7780.2	7483.1	7014.1	7240.8	7405.0	7420.6	7019.4
42.5°	7887.0	7957.3	8098.0	8392.5	8283.0	7788.0	7162.6	7410.2	8019.9	8116.3	7634.2
45°	8095.4	8238.7	8413.3	8676.5	8613.9	8220.5	7532.6	7759.3	8676.5	8929.2	8212.7
47.5°	8108.4	8296.0	8486.2	8877.1	8955.2	8452.4	7915.7	8311.7	9197.6	9471.2	8634.8
50°	8056.4	8155.3	8535.8	8960.5	9137.7	8830.2	8452.4	8775.5	9703.1	9875.0	8848.4
52.5°	7438.8	7514.4	8277.8	9038.6	9465.9	9257.5	9163.7	9421.7	10218.9	10346.6	9049.1
55°	6201.2	6188.2	7238.2	8645.2	9617.0	9890.6	9833.3	9924.5	10815.7	10930.3	9098.5
57.5°	4241.8	4478.9	5385.6	7199.1	8692.1	9742.2	9802.1	9650.9	10120.0	10164.3	7931.3
60°	2287.7	2386.7	3116.3	4804.6	6618.1	7939.1	8095.4	7821.9	7785.4	7660.3	5661.9
62.5°	909.3	958.9	1373.1	2378.8	3606.1	4825.5	5161.6	5049.6	4809.8	4481.6	2931.2
65°	432.5	463.8	682.6	1112.6	1599.8	2011.4	2347.6	2451.8	1808.3	1628.5	966.7
67.5°	294.4	317.9	497.7	635.7	570.7	596.6	776.4	721.8	424.7	362.1	268.3
70°	224.1	239.7	398.6	432.5	255.3	179.8	200.6	187.6	174.6	177.2	174.6
72.5°	158.9	171.9	291.8	255.3	112.0	83.4	106.8	127.7	127.7	127.7	125.0
75°	96.4	109.5	169.4	99.0	44.3	44.3	67.7	86.0	91.2	93.8	88.6
77.5°	49.5	62.6	57.3	28.7	28.7	33.9	49.5	59.9	65.1	65.1	62.6
80°	10.4	10.4	10.4	15.7	28.7	36.5	49.5	54.7	62.6	62.6	57.3
82.5°	0.0	2.6	7.8	15.7	26.1	33.9	46.9	54.7	62.6	65.1	59.9
85°	0.0	2.6	5.2	10.4	18.2	20.8	18.2	15.7	15.7	15.7	15.7
87.5°	0.0	0.0	2.6	2.6	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8
2.5°	3783.2	3791.1	3778.1	3775.5	3765.0	3796.3	3720.7	3702.5	3749.4	3705.1	3715.5
5°	3832.8	3851.0	3827.5	3788.5	3731.2	3642.6	3567.0	3468.0	3421.1	3387.2	3382.0
7.5°	3869.3	3882.3	3858.8	3733.7	3561.8	3337.7	3170.9	3048.5	2952.1	2923.4	2876.5
10°	4017.7	4020.4	3903.1	3626.9	3290.8	2996.4	2741.0	2553.4	2457.1	2397.1	2371.1
12.5°	4116.8	4111.5	3874.4	3415.8	2967.7	2576.9	2285.0	2058.4	1969.8	1941.1	1922.9
15°	4241.8	4213.2	3806.7	3199.7	2550.9	2128.7	1865.6	1709.2	1701.5	1683.2	1701.5
17.5°	4340.9	4260.1	3707.7	2806.2	2152.2	1753.5	1581.6	1592.0	1612.8	1631.1	1633.7
20°	4502.4	4335.6	3481.0	2462.2	1782.2	1503.4	1500.8	1547.7	1599.8	1620.7	1641.5
22.5°	4624.9	4366.9	3238.7	2094.8	1479.9	1401.8	1446.0	1516.4	1555.5	1576.3	1607.7
25°	4669.1	4280.9	2915.6	1727.5	1334.1	1354.9	1422.6	1469.5	1519.0	1542.5	1529.4
27.5°	4713.4	4236.7	2530.0	1422.6	1255.9	1323.6	1381.0	1427.9	1443.5	1474.7	1495.6
30°	4820.2	4082.9	2183.5	1229.8	1216.8	1302.8	1344.5	1360.1	1401.8	1420.0	1420.0
32.5°	4906.3	4023.0	1816.1	1138.6	1211.6	1313.2	1318.4	1318.4	1323.6	1310.6	1305.4
35°	5083.4	3817.1	1487.8	1083.9	1209.0	1315.8	1328.8	1284.5	1164.7	1117.8	1104.7
37.5°	5302.3	3684.2	1245.4	1070.9	1227.2	1347.1	1367.9	1201.1	1044.8	969.3	956.2
40°	5568.1	3590.4	1086.5	1065.7	1268.9	1420.0	1357.5	1136.1	932.8	823.3	818.2
42.5°	5878.1	3504.5	979.7	1063.1	1321.0	1495.6	1347.1	1081.3	818.2	745.2	755.6
45°	6125.6	3457.6	906.7	1044.8	1339.2	1539.8	1354.9	984.9	771.3	724.4	729.5
47.5°	6318.4	3358.5	846.8	1013.6	1336.7	1555.5	1284.5	945.8	747.8	760.8	773.8
50°	6323.7	3225.6	771.3	945.8	1297.6	1526.9	1203.8	909.3	742.6	797.3	823.3
52.5°	6253.4	3038.0	690.4	849.4	1206.4	1427.9	1130.8	893.7	719.1	713.9	745.2
55°	6003.2	2686.3	555.0	687.9	1018.8	1177.7	1065.7	865.1	648.8	588.8	594.1
57.5°	4851.5	1925.5	409.0	492.4	721.8	862.5	961.4	852.0	583.6	500.3	502.8
60°	3004.2	1091.7	299.7	336.1	445.5	523.7	779.1	792.1	521.1	422.1	416.9
62.5°	1542.5	539.3	231.9	237.1	273.6	307.5	534.2	664.4	471.6	401.3	401.3
65°	515.9	265.8	203.3	182.4	182.4	190.2	323.1	461.2	398.6	336.1	336.1
67.5°	221.4	198.0	177.2	158.9	145.9	138.1	182.4	268.3	297.1	255.3	244.9
70°	171.9	166.8	153.7	132.9	114.6	104.2	106.8	138.1	169.4	164.1	158.9
72.5°	127.7	127.7	122.5	104.2	88.6	75.6	70.3	73.0	80.8	83.4	86.0
75°	88.6	91.2	91.2	80.8	65.1	54.7	46.9	39.1	31.2	26.1	23.4
77.5°	59.9	62.6	67.7	59.9	49.5	36.5	28.7	20.8	13.0	5.2	5.2
80°	52.1	59.9	65.1	59.9	52.1	39.1	28.7	15.7	7.8	0.0	0.0
82.5°	54.7	59.9	67.7	57.3	49.5	36.5	28.7	18.2	7.8	2.6	0.0
85°	13.0	13.0	15.7	18.2	23.4	26.1	20.8	13.0	7.8	2.6	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	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)