

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: P532613

Luminaire Tested: **GALN-SA8A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532613
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-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 18782 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

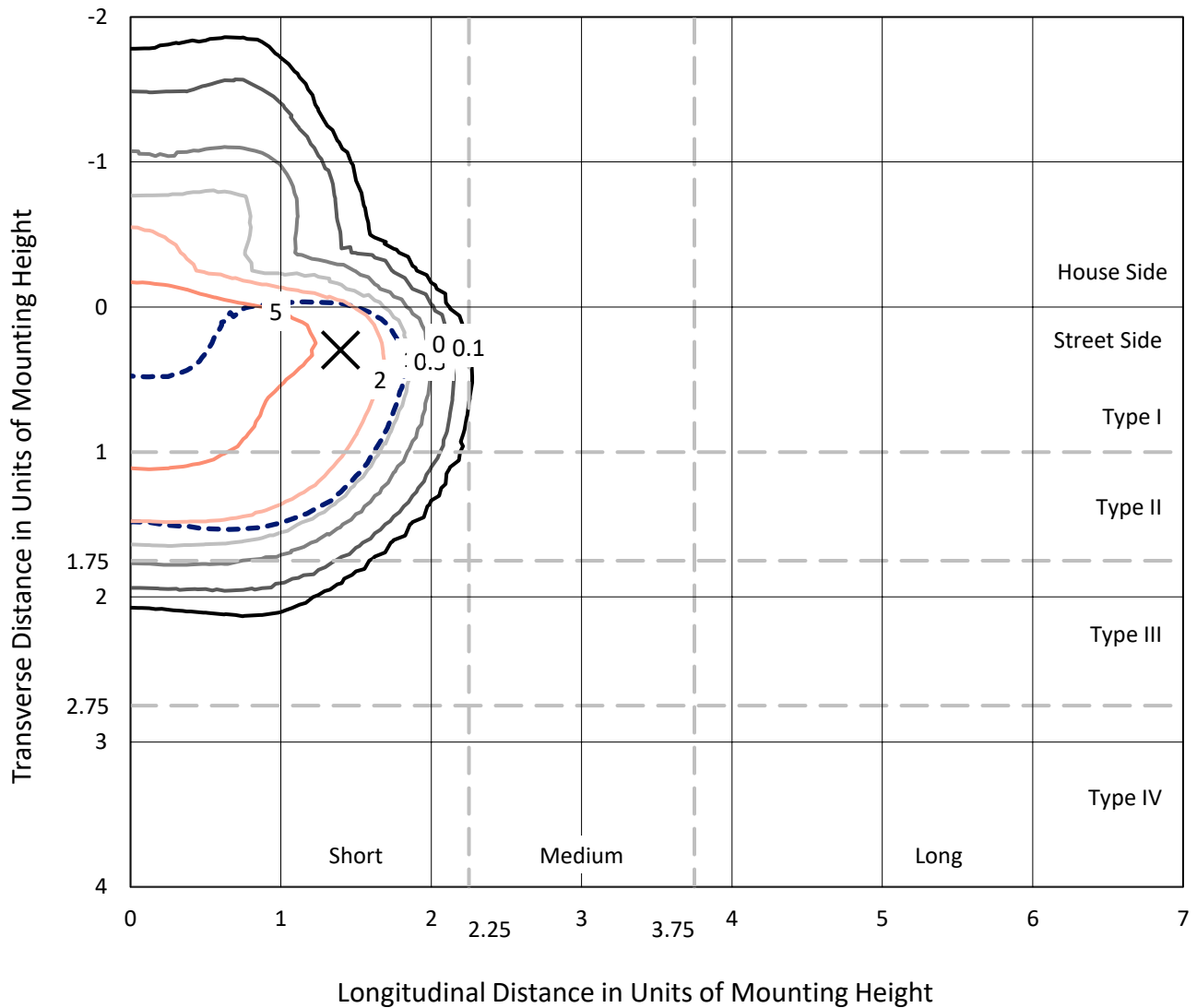
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

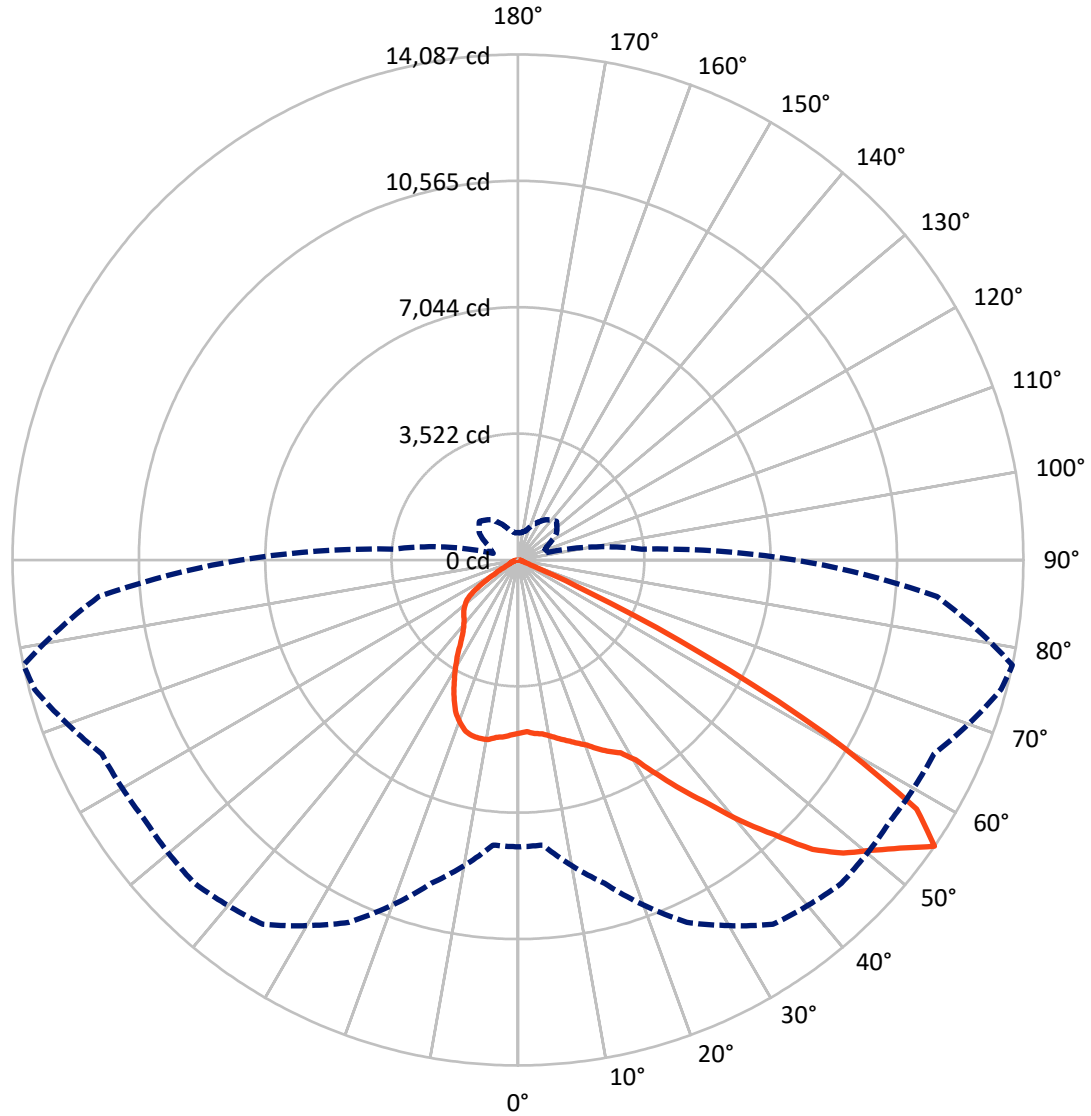
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	3488.6	0.0	3488.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15293.4	0.0	15293.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	18782.0	0.0	18782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.6	2.3
10°-20°	1139.5	6.1
20°-30°	1997.4	10.6
30°-40°	3293.5	17.5
40°-50°	4792.4	25.5
50°-60°	5430.3	28.9
60°-70°	1552.6	8.3
70°-80°	120.6	0.6
80°-90°	25.1	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°	18782.0	100.0
0°-180°	18782.0	100.0

Coefficient of Utilization



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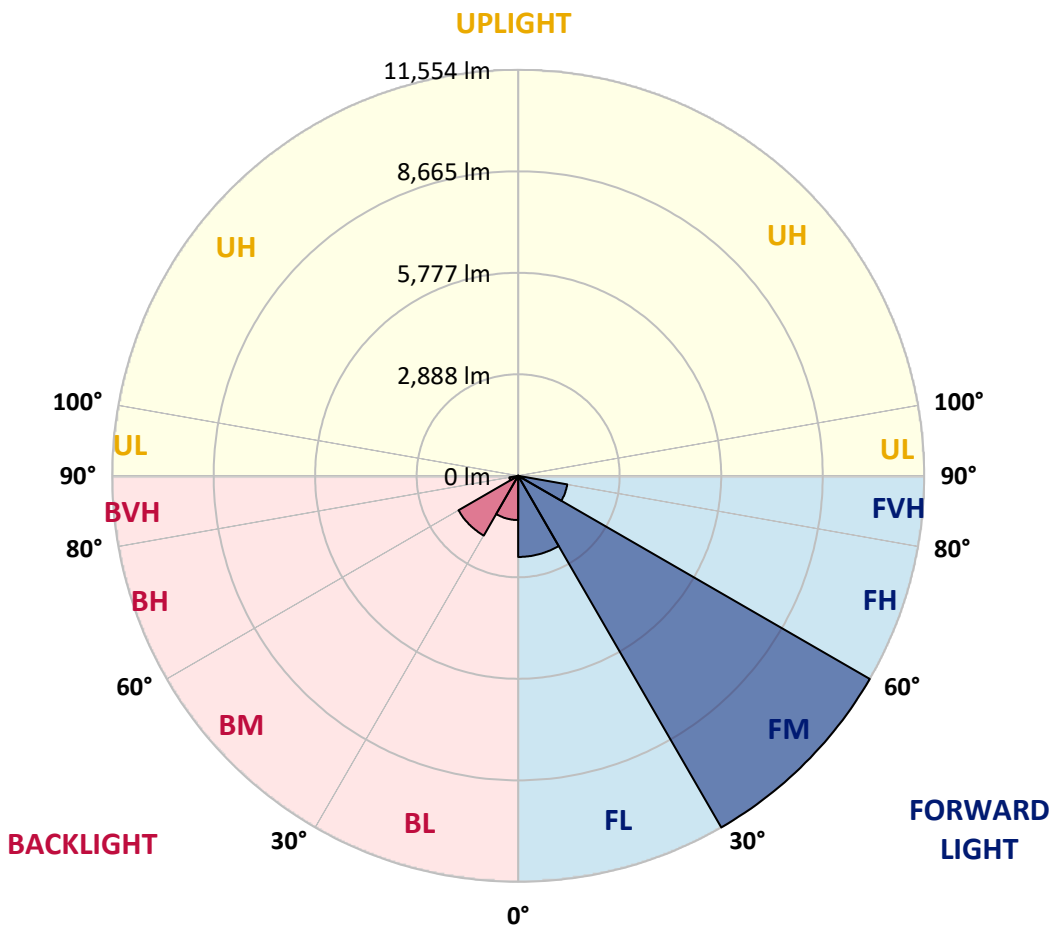
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.8	12.3			
FM (30°-60°)	11553.9	61.5			
FH (60°-80°)	1418.5	7.6			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1258.7	6.7	B3/2500		
BM (30°-60°)	1962.4	10.4	B2/2500		
BH (60°-80°)	254.6	1.4	B1/500		G1/500
BVH (80°-90°)	12.9	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°	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9
2.5°	4540.1	4583.7	4590.4	4644.2	4640.8	4731.5	4758.3	4761.7	4822.1	4791.9	4869.2
5°	4412.5	4389.0	4378.9	4472.9	4499.8	4580.4	4647.5	4687.8	4812.1	4855.7	4936.3
7.5°	4298.3	4298.3	4305.0	4389.0	4378.9	4483.0	4553.5	4677.8	4859.1	4896.0	4993.4
10°	4187.5	4147.2	4197.6	4284.9	4358.7	4405.8	4553.5	4671.0	4882.6	4990.0	5124.4
12.5°	4130.4	4150.5	4157.3	4221.1	4301.7	4442.7	4523.3	4718.0	5050.5	5114.3	5258.7
15°	4489.7	4449.4	4352.0	4294.9	4362.1	4429.3	4630.7	4828.9	5137.8	5228.5	5389.7
17.5°	4906.1	4872.5	4791.9	4637.5	4486.3	4610.6	4768.4	4949.8	5231.8	5366.1	5604.6
20°	5450.1	5396.4	5315.8	5013.6	4882.6	4748.3	4916.2	5131.1	5386.3	5507.2	5752.3
22.5°	6098.2	6098.2	5916.9	5550.8	5278.8	5151.2	5221.8	5346.0	5557.6	5722.1	5963.9
25°	6773.2	6753.0	6588.5	6209.0	5749.0	5597.9	5678.4	5765.8	5822.8	5913.5	6074.7
27.5°	7545.5	7428.0	7219.8	6800.0	6393.7	6101.6	6188.9	6111.6	6041.1	6088.1	6319.8
30°	8069.4	8143.2	7878.0	7475.0	7092.2	6766.5	6783.2	6716.1	6393.7	6460.9	6598.6
32.5°	8613.4	8660.4	8512.6	8291.0	7908.2	7528.7	7391.0	7334.0	7092.2	7122.4	6988.1
35°	9066.7	9157.4	9026.4	8929.0	8818.2	8512.6	8133.2	8317.9	7928.3	7854.5	7505.2
37.5°	9483.1	9456.2	9610.7	9510.0	9486.5	9271.6	8855.2	8892.1	8630.2	8613.4	8210.4
40°	9855.9	9862.6	10074.1	10121.1	10027.1	9644.3	9039.8	9332.0	9543.6	9563.7	9046.6
42.5°	10164.8	10255.5	10436.8	10816.3	10675.2	10037.2	9231.3	9550.3	10336.1	10460.3	9839.1
45°	10433.4	10618.1	10843.1	11182.3	11101.7	10594.6	9708.1	10000.2	11182.3	11508.0	10584.5
47.5°	10450.2	10692.0	10937.1	11440.8	11541.6	10893.5	10201.7	10712.2	11853.9	12206.5	11128.5
50°	10383.1	10510.7	11000.9	11548.3	11776.7	11380.4	10893.5	11309.9	12505.3	12727.0	11403.9
52.5°	9587.2	9684.6	10668.5	11649.0	12199.8	11931.1	11810.2	12142.7	13170.2	13334.8	11662.5
55°	7992.1	7975.3	9328.6	11142.0	12394.5	12747.1	12673.2	12790.8	13939.2	14087.0	11726.3
57.5°	5466.9	5772.5	6941.1	9278.3	11202.4	12555.7	12633.0	12438.2	13042.6	13099.7	10221.9
60°	2948.4	3076.0	4016.2	6192.2	8529.4	10232.0	10433.4	10080.8	10033.8	9872.6	7297.0
62.5°	1172.0	1235.8	1769.7	3065.9	4647.5	6219.1	6652.3	6507.9	6198.9	5775.8	3777.8
65°	557.4	597.7	879.8	1433.9	2061.8	2592.4	3025.6	3159.9	2330.5	2098.8	1245.8
67.5°	379.5	409.7	641.4	819.4	735.4	769.0	1000.7	930.2	547.4	466.8	345.9
70°	288.8	308.9	513.8	557.4	329.1	231.7	258.6	241.8	225.0	228.3	225.0
72.5°	204.8	221.6	376.1	329.1	144.4	107.5	137.7	164.5	164.5	164.5	161.2
75°	124.2	141.0	218.3	127.6	57.1	57.1	87.3	110.8	117.5	120.9	114.2
77.5°	63.8	80.6	73.9	36.9	36.9	43.7	63.8	77.2	84.0	84.0	80.6
80°	13.4	13.4	13.4	20.1	36.9	47.0	63.8	70.5	80.6	80.6	73.9
82.5°	0.0	3.4	10.1	20.1	33.6	43.7	60.4	70.5	80.6	84.0	77.2
85°	0.0	3.4	6.7	13.4	23.5	26.9	23.5	20.1	20.1	20.1	20.1
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9	4828.9
2.5°	4875.9	4885.9	4869.2	4865.8	4852.4	4892.7	4795.3	4771.8	4832.2	4775.1	4788.6
5°	4939.7	4963.2	4933.0	4882.6	4808.7	4694.5	4597.2	4469.6	4409.1	4365.5	4358.7
7.5°	4986.7	5003.5	4973.3	4812.1	4590.4	4301.7	4086.7	3928.9	3804.7	3767.7	3707.3
10°	5178.1	5181.5	5030.3	4674.4	4241.2	3861.7	3532.7	3290.9	3166.6	3089.4	3055.8
12.5°	5305.7	5299.0	4993.4	4402.4	3824.8	3321.1	2945.0	2652.9	2538.7	2501.7	2478.2
15°	5466.9	5430.0	4906.1	4123.7	3287.5	2743.5	2404.4	2202.9	2192.8	2169.3	2192.8
17.5°	5594.5	5490.4	4778.5	3616.6	2773.7	2260.0	2038.3	2051.8	2078.6	2102.1	2105.5
20°	5802.7	5587.8	4486.3	3173.3	2296.9	1937.6	1934.2	1994.7	2061.8	2088.7	2115.6
22.5°	5960.5	5628.1	4174.0	2699.9	1907.4	1806.6	1863.7	1954.4	2004.8	2031.6	2071.9
25°	6017.6	5517.3	3757.6	2226.4	1719.3	1746.2	1833.5	1893.9	1957.7	1988.0	1971.2
27.5°	6074.7	5460.2	3260.7	1833.5	1618.6	1705.9	1779.8	1840.2	1860.4	1900.7	1927.5
30°	6212.4	5262.1	2814.0	1585.0	1568.2	1679.0	1732.7	1752.9	1806.6	1830.1	1830.1
32.5°	6323.2	5184.8	2340.6	1467.5	1561.5	1692.5	1699.2	1699.2	1705.9	1689.1	1682.4
35°	6551.5	4919.5	1917.4	1396.9	1558.1	1695.8	1712.6	1655.5	1501.0	1440.6	1423.8
37.5°	6833.6	4748.3	1605.1	1380.2	1581.6	1736.1	1763.0	1548.1	1346.6	1249.2	1232.4
40°	7176.1	4627.4	1400.3	1373.4	1635.4	1830.1	1749.5	1464.1	1202.2	1061.1	1054.4
42.5°	7575.7	4516.6	1262.6	1370.1	1702.5	1927.5	1736.1	1393.6	1054.4	960.4	973.8
45°	7894.8	4456.1	1168.6	1346.6	1726.0	1984.6	1746.2	1269.3	994.0	933.5	940.3
47.5°	8143.2	4328.5	1091.4	1306.3	1722.7	2004.8	1655.5	1219.0	963.8	980.5	997.3
50°	8150.0	4157.3	994.0	1219.0	1672.3	1967.8	1551.4	1172.0	957.0	1027.6	1061.1
52.5°	8059.3	3915.5	889.9	1094.7	1554.8	1840.2	1457.4	1151.8	926.8	920.1	960.4
55°	7736.9	3462.1	715.3	886.5	1313.0	1517.8	1373.4	1114.9	836.2	758.9	765.6
57.5°	6252.7	2481.6	527.2	634.7	930.2	1111.5	1239.1	1098.1	752.2	644.7	648.1
60°	3871.8	1407.0	386.2	433.2	574.2	675.0	1004.1	1020.8	671.6	544.0	537.3
62.5°	1988.0	695.1	298.9	305.6	352.6	396.2	688.4	856.3	607.8	517.1	517.1
65°	664.9	342.5	261.9	235.1	235.1	245.1	416.4	594.4	513.8	433.2	433.2
67.5°	285.4	255.2	228.3	204.8	188.1	178.0	235.1	345.9	382.8	329.1	315.7
70°	221.6	214.9	198.1	171.3	147.8	134.3	137.7	178.0	218.3	211.6	204.8
72.5°	164.5	164.5	157.8	134.3	114.2	97.4	90.7	94.0	104.1	107.5	110.8
75°	114.2	117.5	117.5	104.1	84.0	70.5	60.4	50.4	40.3	33.6	30.2
77.5°	77.2	80.6	87.3	77.2	63.8	47.0	36.9	26.9	16.8	6.7	6.7
80°	67.2	77.2	84.0	77.2	67.2	50.4	36.9	20.1	10.1	0.0	0.0
82.5°	70.5	77.2	87.3	73.9	63.8	47.0	36.9	23.5	10.1	3.4	0.0
85°	16.8	16.8	20.1	23.5	30.2	33.6	26.9	16.8	10.1	3.4	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	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)