

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: P531365

Luminaire Tested: **GALN-SA6C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531365
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-SA6C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 18639 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

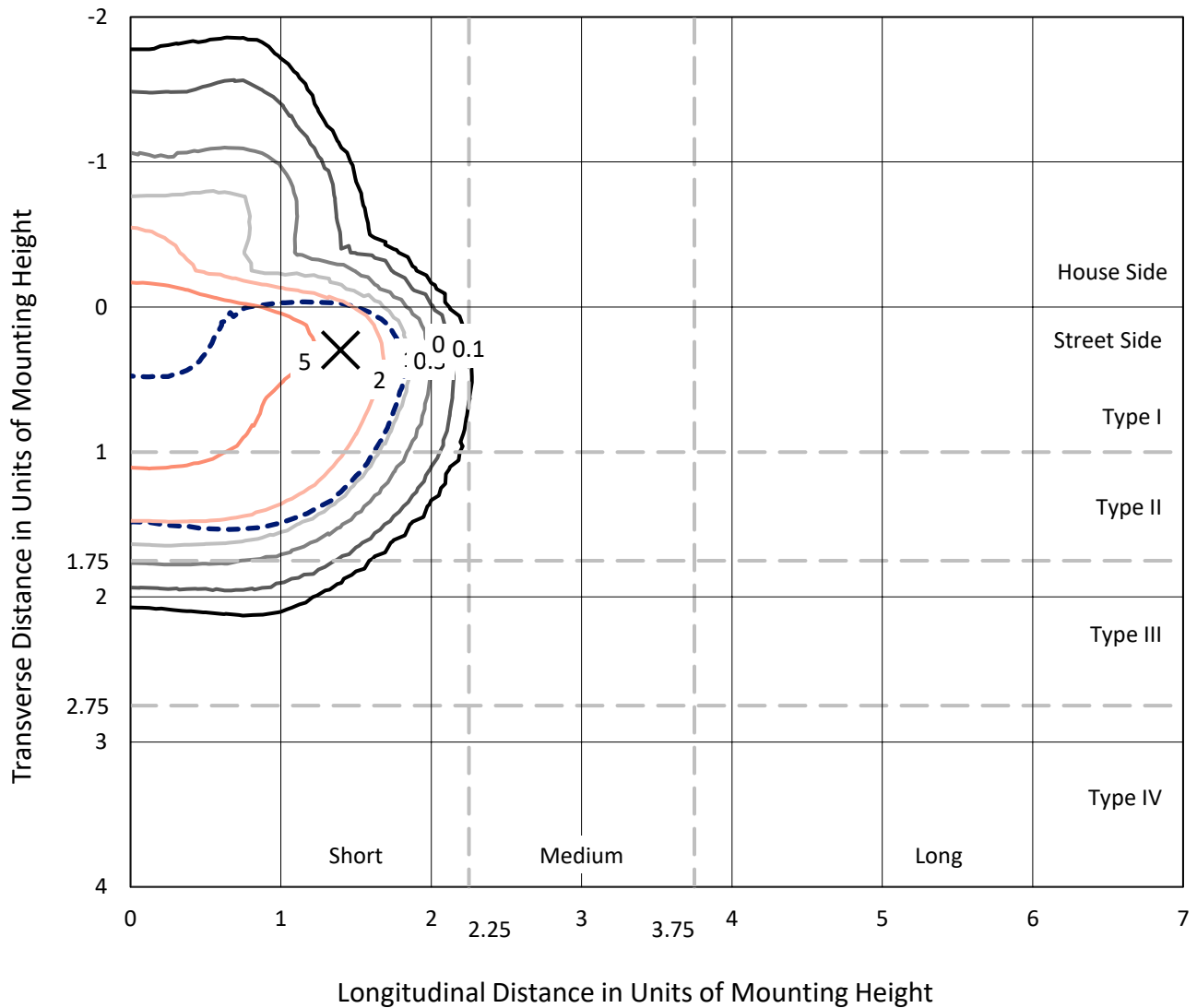
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

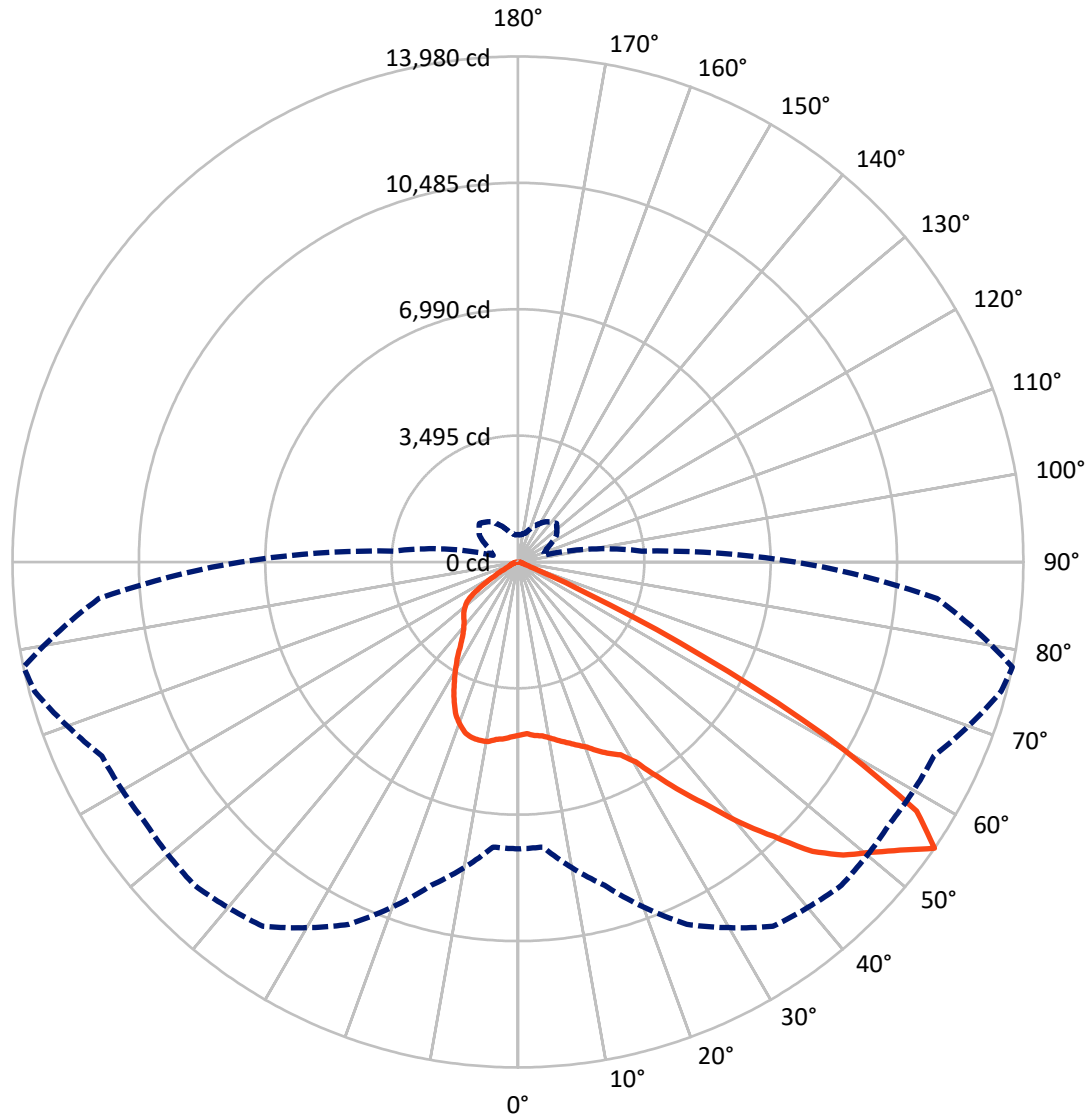
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531365
CATALOG NUMBER: GALN-SA6C-827-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P531365

CATALOG NUMBER: GALN-SA6C-827-U-T3R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3462.0	0.0	3462.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15177.0	0.0	15177.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	18639.0	0.0	18639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	2.3
10°-20°	1130.9	6.1
20°-30°	1982.2	10.6
30°-40°	3268.4	17.5
40°-50°	4755.9	25.5
50°-60°	5389.0	28.9
60°-70°	1540.8	8.3
70°-80°	119.6	0.6
80°-90°	24.9	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°	18639.0	100.0
0°-180°	18639.0	100.0

Coefficient of Utilization

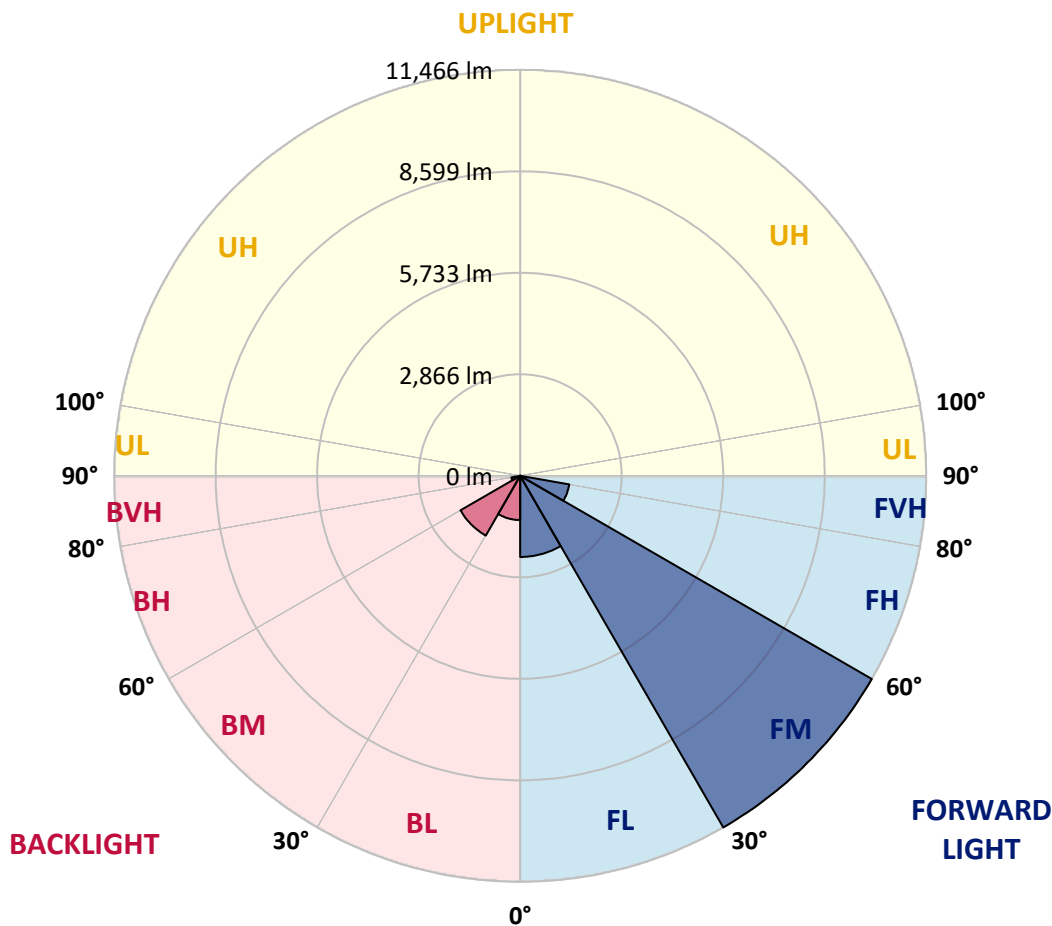


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 CATALOG NUMBER: GALN-SA6C-827-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.3	12.3			
FM (30°-60°)	11465.9	61.5			
FH (60°-80°)	1407.7	7.6			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1249.1	6.7	B3/2500		
BM (30°-60°)	1947.4	10.4	B2/2500		
BH (60°-80°)	252.7	1.4	B1/500		G1/500
BVH (80°-90°)	12.8	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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CATALOG NUMBER: GALN-SA6C-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1
2.5°	4505.5	4548.8	4555.5	4608.8	4605.5	4695.5	4722.1	4725.4	4785.4	4755.4	4832.1
5°	4378.9	4355.5	4345.5	4438.9	4465.5	4545.5	4612.1	4652.1	4775.4	4818.8	4898.7
7.5°	4265.6	4265.6	4272.2	4355.5	4345.5	4448.9	4518.8	4642.1	4822.1	4858.7	4955.4
10°	4155.6	4115.6	4165.6	4252.2	4325.6	4372.2	4518.8	4635.5	4845.4	4952.1	5085.4
12.5°	4098.9	4118.9	4125.6	4188.9	4268.9	4408.9	4488.8	4682.1	5012.0	5075.4	5218.7
15°	4455.5	4415.5	4318.9	4262.2	4328.9	4395.5	4595.5	4792.1	5098.7	5188.7	5348.6
17.5°	4868.7	4835.4	4755.4	4602.1	4452.2	4575.5	4732.1	4912.1	5192.0	5325.3	5561.9
20°	5408.6	5355.3	5275.3	4975.4	4845.4	4712.1	4878.7	5092.0	5345.3	5465.3	5708.5
22.5°	6051.8	6051.8	5871.8	5508.6	5238.6	5112.0	5182.0	5305.3	5515.2	5678.5	5918.5
25°	6721.6	6701.6	6538.3	6161.7	5705.2	5555.2	5635.2	5721.9	5778.5	5868.5	6028.4
27.5°	7488.1	7371.4	7164.8	6748.3	6345.0	6055.1	6141.7	6065.1	5995.1	6041.8	6271.7
30°	8007.9	8081.2	7818.0	7418.1	7038.2	6714.9	6731.6	6664.9	6345.0	6411.7	6548.3
32.5°	8547.8	8594.5	8447.8	8227.9	7848.0	7471.4	7334.8	7278.1	7038.2	7068.2	6934.9
35°	8997.7	9087.7	8957.7	8861.0	8751.1	8447.8	8071.3	8254.5	7868.0	7794.7	7448.1
37.5°	9410.9	9384.2	9537.5	9437.6	9414.2	9201.0	8787.7	8824.4	8564.5	8547.8	8147.9
40°	9780.8	9787.5	9997.4	10044.1	9950.8	9570.9	8971.0	9260.9	9470.9	9490.9	8977.7
42.5°	10087.4	10177.4	10357.3	10733.9	10593.9	9960.8	9161.0	9477.6	10257.4	10380.7	9764.1
45°	10354.0	10537.3	10760.6	11097.1	11017.2	10514.0	9634.2	9924.1	11097.1	11420.4	10504.0
47.5°	10370.7	10610.6	10853.9	11353.7	11453.7	10810.5	10124.1	10630.6	11763.6	12113.5	11043.8
50°	10304.0	10430.6	10917.2	11460.4	11687.0	11293.8	10810.5	11223.8	12410.1	12630.1	11317.1
52.5°	9514.2	9610.9	10587.3	11560.4	12106.9	11840.3	11720.3	12050.2	13070.0	13233.3	11573.7
55°	7931.3	7914.6	9257.6	11057.1	12300.2	12650.1	12576.8	12693.4	13833.1	13979.7	11637.0
57.5°	5425.3	5728.5	6888.2	9207.6	11117.1	12460.1	12536.8	12343.5	12943.3	13000.0	10144.1
60°	2925.9	3052.5	3985.6	6145.1	8464.5	10154.0	10354.0	10004.1	9957.4	9797.5	7241.5
62.5°	1163.0	1226.4	1756.2	3042.5	4612.1	6171.7	6601.6	6458.3	6151.7	5731.9	3749.0
65°	553.2	593.2	873.1	1423.0	2046.1	2572.7	3002.6	3135.9	2312.7	2082.8	1236.3
67.5°	376.6	406.6	636.5	813.1	729.8	763.1	993.1	923.1	543.2	463.2	343.2
70°	286.6	306.6	509.9	553.2	326.6	229.9	256.6	239.9	223.3	226.6	223.3
72.5°	203.3	219.9	373.2	326.6	143.3	106.6	136.6	163.3	163.3	163.3	160.0
75°	123.3	140.0	216.6	126.6	56.7	56.7	86.6	110.0	116.6	120.0	113.3
77.5°	63.3	80.0	73.3	36.7	36.7	43.3	63.3	76.6	83.3	83.3	80.0
80°	13.3	13.3	13.3	20.0	36.7	46.7	63.3	70.0	80.0	80.0	73.3
82.5°	0.0	3.3	10.0	20.0	33.3	43.3	60.0	70.0	80.0	83.3	76.6
85°	0.0	3.3	6.7	13.3	23.3	26.7	23.3	20.0	20.0	20.0	20.0
87.5°	0.0	0.0	3.3	3.3	3.3	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°	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1
2.5°	4838.8	4848.7	4832.1	4828.8	4815.4	4855.4	4758.8	4735.4	4795.4	4738.8	4752.1
5°	4902.1	4925.4	4895.4	4845.4	4772.1	4658.8	4562.2	4435.5	4375.5	4332.2	4325.6
7.5°	4948.7	4965.4	4935.4	4775.4	4555.5	4268.9	4055.6	3899.0	3775.7	3739.0	3679.1
10°	5138.7	5142.0	4992.0	4638.8	4208.9	3832.3	3505.8	3265.8	3142.5	3065.9	3032.6
12.5°	5265.3	5258.6	4955.4	4368.9	3795.7	3295.8	2922.6	2632.7	2519.4	2482.7	2459.4
15°	5425.3	5388.6	4868.7	4092.3	3262.5	2722.6	2386.1	2186.1	2176.1	2152.8	2176.1
17.5°	5551.9	5448.6	4742.1	3589.1	2752.6	2242.8	2022.8	2036.1	2062.8	2086.1	2089.5
20°	5758.5	5545.2	4452.2	3149.2	2279.4	1922.8	1919.5	1979.5	2046.1	2072.8	2099.5
22.5°	5915.1	5585.2	4142.3	2679.3	1892.8	1792.9	1849.5	1939.5	1989.5	2016.1	2056.1
25°	5971.8	5475.3	3729.0	2209.4	1706.2	1732.9	1819.5	1879.5	1942.8	1972.8	1956.2
27.5°	6028.4	5418.6	3235.8	1819.5	1606.3	1692.9	1766.2	1826.2	1846.2	1886.2	1912.8
30°	6165.1	5222.0	2792.6	1572.9	1556.3	1666.2	1719.6	1739.6	1792.9	1816.2	1816.2
32.5°	6275.0	5145.3	2322.7	1456.3	1549.6	1679.6	1686.2	1686.2	1692.9	1676.2	1669.6
35°	6501.7	4882.1	1902.8	1386.3	1546.3	1682.9	1699.6	1642.9	1489.6	1429.6	1413.0
37.5°	6781.6	4712.1	1592.9	1369.6	1569.6	1722.9	1749.5	1536.3	1336.3	1239.7	1223.0
40°	7121.5	4592.1	1389.6	1363.0	1622.9	1816.2	1736.2	1453.0	1193.0	1053.1	1046.4
42.5°	7518.1	4482.2	1253.0	1359.6	1689.6	1912.8	1722.9	1383.0	1046.4	953.1	966.4
45°	7834.6	4422.2	1159.7	1336.3	1712.9	1969.5	1732.9	1259.7	986.4	926.4	933.1
47.5°	8081.2	4295.6	1083.1	1296.3	1709.6	1989.5	1642.9	1209.7	956.4	973.1	989.7
50°	8087.9	4125.6	986.4	1209.7	1659.6	1952.8	1539.6	1163.0	949.8	1019.7	1053.1
52.5°	7997.9	3885.7	883.1	1086.4	1542.9	1826.2	1446.3	1143.0	919.8	913.1	953.1
55°	7678.0	3435.8	709.8	879.8	1303.0	1506.3	1363.0	1106.4	829.8	753.1	759.8
57.5°	6205.1	2462.7	523.2	629.8	923.1	1103.0	1229.7	1089.7	746.5	639.8	643.2
60°	3842.3	1396.3	383.2	429.9	569.9	669.8	996.4	1013.1	666.5	539.9	533.2
62.5°	1972.8	689.8	296.6	303.3	349.9	393.2	683.2	849.8	603.2	513.2	513.2
65°	659.8	339.9	259.9	233.3	233.3	243.3	413.2	589.8	509.9	429.9	429.9
67.5°	283.3	253.3	226.6	203.3	186.6	176.6	233.3	343.2	379.9	326.6	313.3
70°	219.9	213.3	196.6	170.0	146.6	133.3	136.6	176.6	216.6	209.9	203.3
72.5°	163.3	163.3	156.6	133.3	113.3	96.6	90.0	93.3	103.3	106.6	110.0
75°	113.3	116.6	116.6	103.3	83.3	70.0	60.0	50.0	40.0	33.3	30.0
77.5°	76.6	80.0	86.6	76.6	63.3	46.7	36.7	26.7	16.7	6.7	6.7
80°	66.6	76.6	83.3	76.6	66.6	50.0	36.7	20.0	10.0	0.0	0.0
82.5°	70.0	76.6	86.6	73.3	63.3	46.7	36.7	23.3	10.0	3.3	0.0
85°	16.7	16.7	20.0	23.3	30.0	33.3	26.7	16.7	10.0	3.3	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)