

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: P529415

Luminaire Tested: **GALN-SA4C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529415  
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-SA4C-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 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: 16915 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

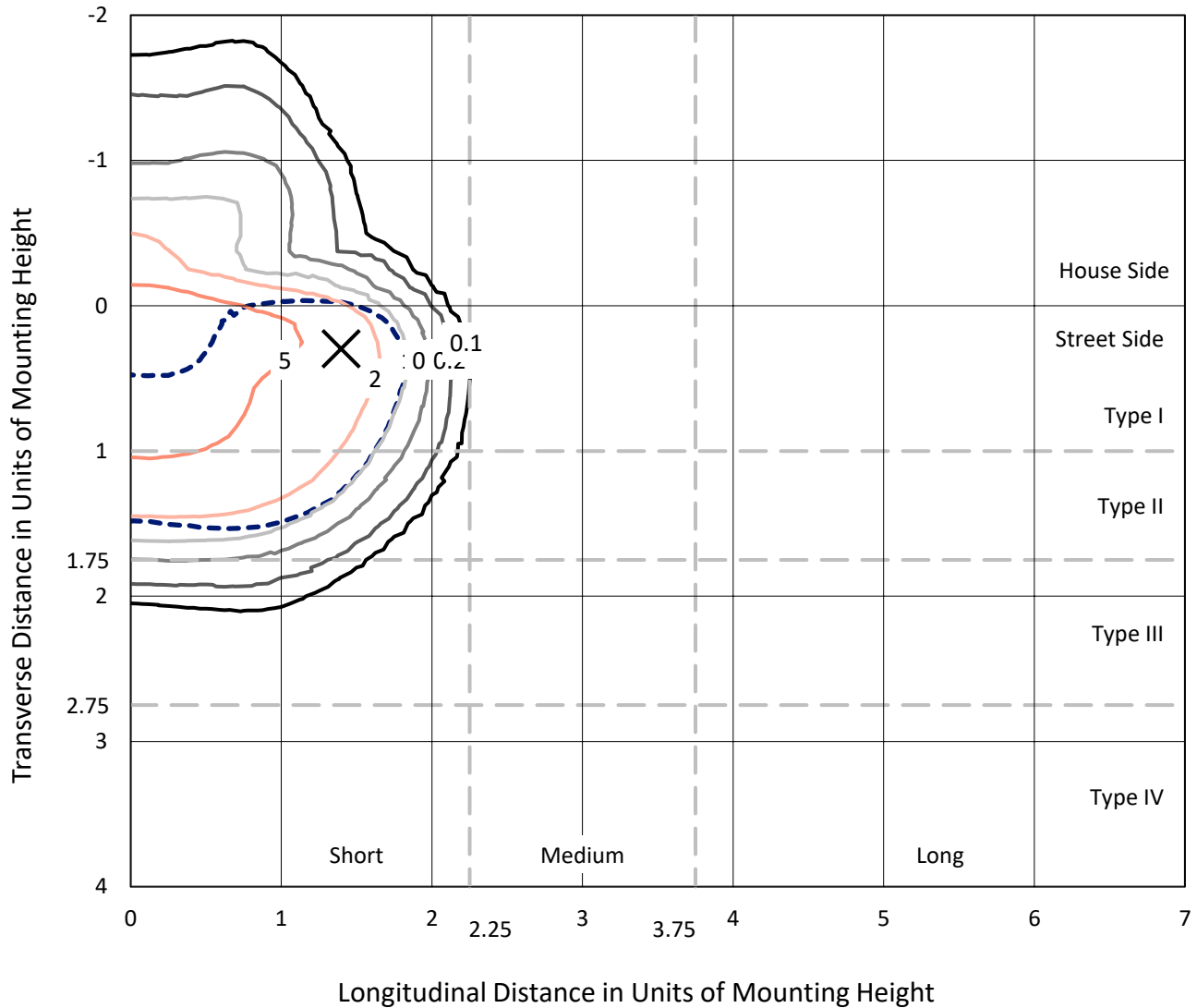
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

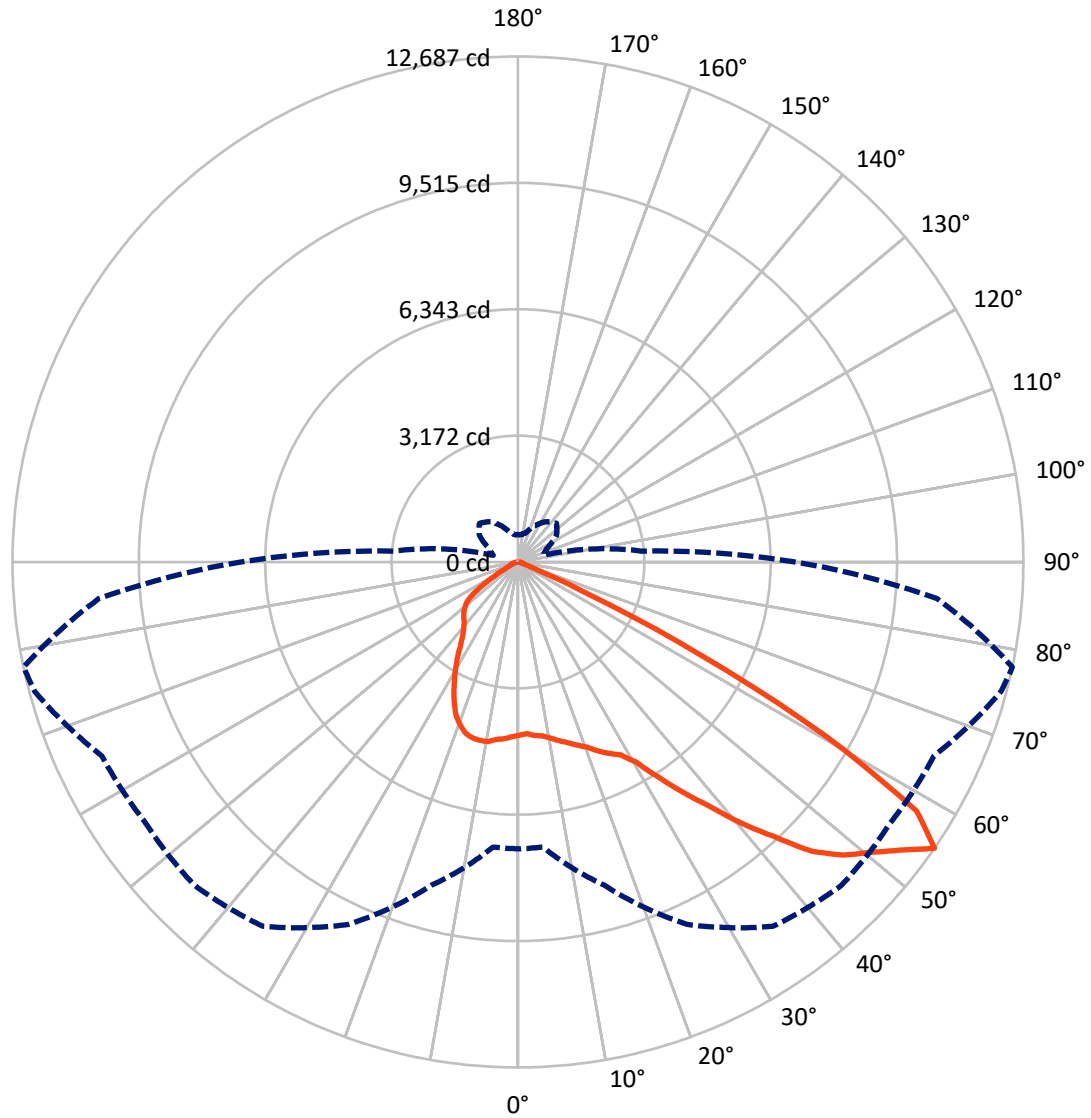
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	3141.8	0.0	3141.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13773.2	0.0	13773.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16915.0	0.0	16915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.8	2.3
10°-20°	1026.3	6.1
20°-30°	1798.9	10.6
30°-40°	2966.1	17.5
40°-50°	4316.0	25.5
50°-60°	4890.5	28.9
60°-70°	1398.3	8.3
70°-80°	108.6	0.6
80°-90°	22.6	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°	16915.0	100.0
0°-180°	16915.0	100.0

**Coefficient of Utilization**



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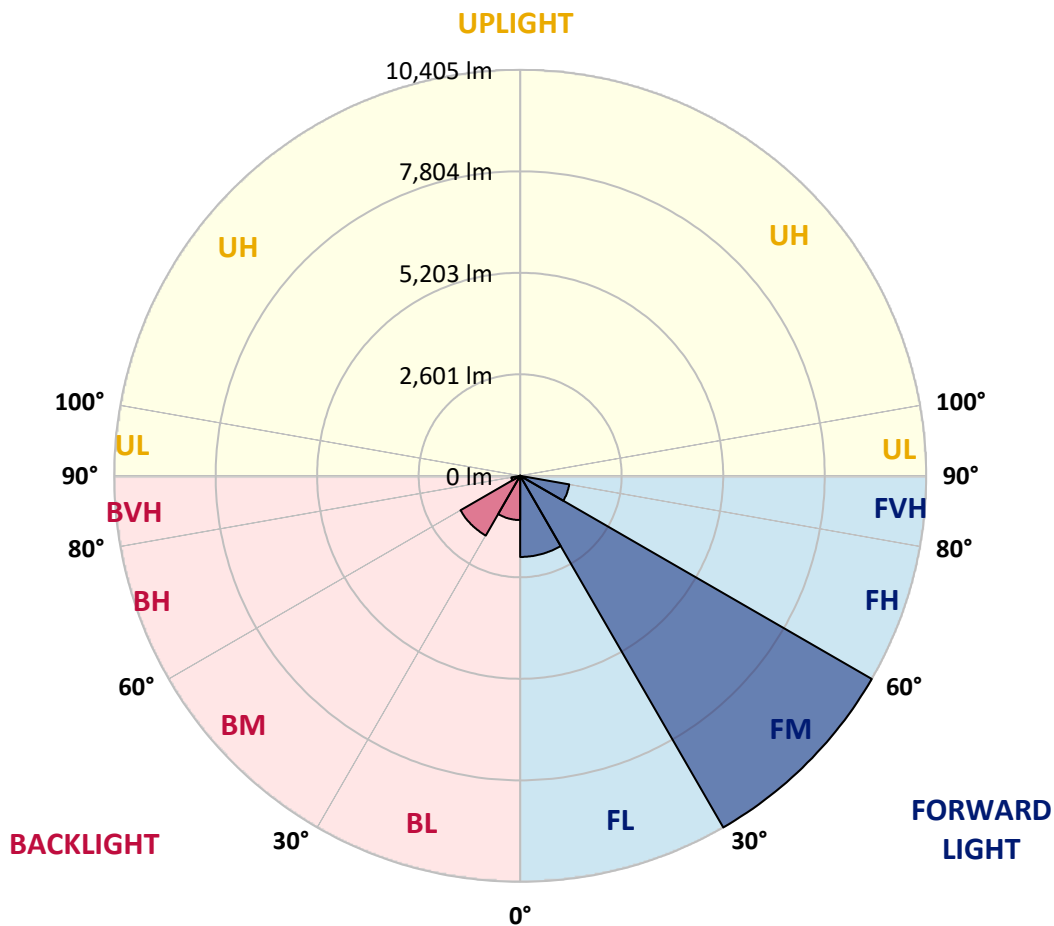
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2079.3	12.3			
FM (30°-60°)	10405.4	61.5			
FH (60°-80°)	1277.5	7.6			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1133.6	6.7	B3/2500		
BM (30°-60°)	1767.3	10.4	B2/2500		
BH (60°-80°)	229.3	1.4	B1/500		G1/500
BVH (80°-90°)	11.6	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°	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9
2.5°	4088.8	4128.1	4134.1	4182.5	4179.5	4261.2	4285.3	4288.4	4342.8	4315.6	4385.1
5°	3973.9	3952.7	3943.6	4028.3	4052.5	4125.1	4185.5	4221.8	4333.7	4373.1	4445.6
7.5°	3871.0	3871.0	3877.1	3952.7	3943.6	4037.4	4100.9	4212.8	4376.1	4409.3	4497.0
10°	3771.2	3734.9	3780.3	3858.9	3925.5	3967.8	4100.9	4206.7	4397.2	4494.0	4615.0
12.5°	3719.8	3738.0	3744.0	3801.5	3874.1	4001.1	4073.7	4249.1	4548.5	4605.9	4736.0
15°	4043.4	4007.1	3919.4	3868.0	3928.5	3989.0	4170.4	4348.9	4627.1	4708.7	4853.9
17.5°	4418.4	4388.2	4315.6	4176.5	4040.4	4152.3	4294.4	4457.7	4711.8	4832.7	5047.5
20°	4908.3	4860.0	4787.4	4515.2	4397.2	4276.3	4427.5	4621.0	4850.9	4959.8	5180.5
22.5°	5492.0	5492.0	5328.7	4999.1	4754.1	4639.2	4702.7	4814.6	5005.1	5153.3	5371.0
25°	6099.9	6081.7	5933.6	5591.8	5177.5	5041.4	5114.0	5192.6	5244.0	5325.7	5470.8
27.5°	6795.5	6689.6	6502.1	6124.1	5758.2	5495.0	5573.7	5504.1	5440.6	5482.9	5691.6
30°	7267.2	7333.8	7094.9	6732.0	6387.2	6093.8	6109.0	6048.5	5758.2	5818.6	5942.6
32.5°	7757.2	7799.5	7666.4	7466.8	7122.1	6780.3	6656.4	6604.9	6387.2	6414.4	6293.4
35°	8165.4	8247.1	8129.2	8041.5	7941.7	7666.4	7324.7	7491.0	7140.2	7073.7	6759.2
37.5°	8540.5	8516.3	8655.4	8564.6	8543.5	8349.9	7974.9	8008.2	7772.3	7757.2	7394.3
40°	8876.1	8882.2	9072.7	9115.1	9030.4	8685.6	8141.3	8404.4	8594.9	8613.0	8147.3
42.5°	9154.4	9236.0	9399.3	9741.1	9614.1	9039.5	8313.6	8600.9	9308.6	9420.5	8861.0
45°	9396.3	9562.6	9765.3	10070.7	9998.1	9541.5	8743.1	9006.2	10070.7	10364.1	9532.4
47.5°	9411.4	9629.2	9849.9	10303.6	10394.3	9810.6	9187.6	9647.3	10675.6	10993.1	10022.3
50°	9350.9	9465.9	9907.4	10400.4	10606.0	10249.1	9810.6	10185.6	11262.3	11461.9	10270.3
52.5°	8634.2	8721.9	9608.0	10491.1	10987.1	10745.1	10636.3	10935.7	11861.1	12009.3	10503.2
55°	7197.7	7182.6	8401.3	10034.4	11162.5	11480.0	11413.5	11519.3	12553.6	12686.7	10560.6
57.5°	4923.5	5198.7	6251.1	8356.0	10088.9	11307.6	11377.2	11201.8	11746.1	11797.6	9205.8
60°	2655.3	2770.2	3617.0	5576.7	7681.6	9214.9	9396.3	9078.8	9036.4	8891.3	6571.7
62.5°	1055.5	1112.9	1593.8	2761.1	4185.5	5600.9	5991.0	5861.0	5582.7	5201.7	3402.3
65°	502.0	538.3	792.4	1291.4	1856.9	2334.7	2724.8	2845.8	2098.8	1890.1	1122.0
67.5°	341.7	369.0	577.6	737.9	662.3	692.6	901.2	837.7	493.0	420.4	311.5
70°	260.1	278.2	462.7	502.0	296.4	208.7	232.9	217.7	202.6	205.6	202.6
72.5°	184.5	199.6	338.7	296.4	130.0	96.8	124.0	148.2	148.2	148.2	145.2
75°	111.9	127.0	196.6	114.9	51.4	51.4	78.6	99.8	105.8	108.9	102.8
77.5°	57.5	72.6	66.5	33.3	33.3	39.3	57.5	69.6	75.6	75.6	72.6
80°	12.1	12.1	12.1	18.1	33.3	42.3	57.5	63.5	72.6	72.6	66.5
82.5°	0.0	3.0	9.1	18.1	30.2	39.3	54.4	63.5	72.6	75.6	69.6
85°	0.0	3.0	6.0	12.1	21.2	24.2	21.2	18.1	18.1	18.1	18.1
87.5°	0.0	0.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9	4348.9
2.5°	4391.2	4400.3	4385.1	4382.1	4370.0	4406.3	4318.6	4297.4	4351.9	4300.5	4312.6
5°	4448.7	4469.8	4442.6	4397.2	4330.7	4227.9	4140.2	4025.3	3970.8	3931.5	3925.5
7.5°	4491.0	4506.1	4478.9	4333.7	4134.1	3874.1	3680.5	3538.4	3426.5	3393.2	3338.8
10°	4663.4	4666.4	4530.3	4209.7	3819.6	3477.9	3181.5	2963.8	2851.9	2782.3	2752.1
12.5°	4778.3	4772.2	4497.0	3964.8	3444.6	2991.0	2652.3	2389.1	2286.3	2253.1	2231.9
15°	4923.5	4890.2	4418.4	3713.8	2960.7	2470.8	2165.4	1983.9	1974.8	1953.7	1974.8
17.5°	5038.4	4944.6	4303.5	3257.1	2498.0	2035.3	1835.7	1847.8	1872.0	1893.2	1896.2
20°	5225.9	5032.3	4040.4	2857.9	2068.6	1745.0	1742.0	1796.4	1856.9	1881.1	1905.3
22.5°	5368.0	5068.6	3759.1	2431.5	1717.8	1627.0	1678.5	1760.1	1805.5	1829.7	1866.0
25°	5419.4	4968.8	3384.1	2005.1	1548.4	1572.6	1651.2	1705.7	1763.1	1790.3	1775.2
27.5°	5470.8	4917.4	2936.5	1651.2	1457.7	1536.3	1602.8	1657.3	1675.4	1711.7	1735.9
30°	5594.8	4739.0	2534.3	1427.4	1412.3	1512.1	1560.5	1578.7	1627.0	1648.2	1648.2
32.5°	5694.6	4669.4	2107.9	1321.6	1406.3	1524.2	1530.3	1530.3	1536.3	1521.2	1515.1
35°	5900.3	4430.5	1726.8	1258.1	1403.2	1527.2	1542.4	1491.0	1351.8	1297.4	1282.3
37.5°	6154.3	4276.3	1445.6	1243.0	1424.4	1563.5	1587.7	1394.2	1212.7	1125.0	1109.9
40°	6462.8	4167.4	1261.1	1236.9	1472.8	1648.2	1575.6	1318.6	1082.7	955.7	949.6
42.5°	6822.7	4067.6	1137.1	1233.9	1533.3	1735.9	1563.5	1255.1	949.6	864.9	877.0
45°	7110.0	4013.2	1052.4	1212.7	1554.5	1787.3	1572.6	1143.2	895.2	840.7	846.8
47.5°	7333.8	3898.2	982.9	1176.4	1551.4	1805.5	1491.0	1097.8	868.0	883.1	898.2
50°	7339.8	3744.0	895.2	1097.8	1506.1	1772.2	1397.2	1055.5	861.9	925.4	955.7
52.5°	7258.2	3526.3	801.4	985.9	1400.2	1657.3	1312.5	1037.3	834.7	828.6	864.9
55°	6967.8	3118.0	644.2	798.4	1182.5	1367.0	1236.9	1004.0	753.0	683.5	689.5
57.5°	5631.1	2234.9	474.8	571.6	837.7	1001.0	1115.9	988.9	677.4	580.7	583.7
60°	3486.9	1267.2	347.8	390.1	517.1	607.9	904.2	919.4	604.8	489.9	483.9
62.5°	1790.3	626.0	269.2	275.2	317.5	356.9	620.0	771.2	547.4	465.7	465.7
65°	598.8	308.5	235.9	211.7	211.7	220.8	375.0	535.3	462.7	390.1	390.1
67.5°	257.1	229.8	205.6	184.5	169.4	160.3	211.7	311.5	344.8	296.4	284.3
70°	199.6	193.6	178.4	154.2	133.1	121.0	124.0	160.3	196.6	190.5	184.5
72.5°	148.2	148.2	142.1	121.0	102.8	87.7	81.7	84.7	93.8	96.8	99.8
75°	102.8	105.8	105.8	93.8	75.6	63.5	54.4	45.4	36.3	30.2	27.2
77.5°	69.6	72.6	78.6	69.6	57.5	42.3	33.3	24.2	15.1	6.0	6.0
80°	60.5	69.6	75.6	69.6	60.5	45.4	33.3	18.1	9.1	0.0	0.0
82.5°	63.5	69.6	78.6	66.5	57.5	42.3	33.3	21.2	9.1	3.0	0.0
85°	15.1	15.1	18.1	21.2	27.2	30.2	24.2	15.1	9.1	3.0	0.0
87.5°	6.0	6.0	6.0	6.0	6.0	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)