

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: P528915

Luminaire Tested: **GALN-SA4A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9941 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

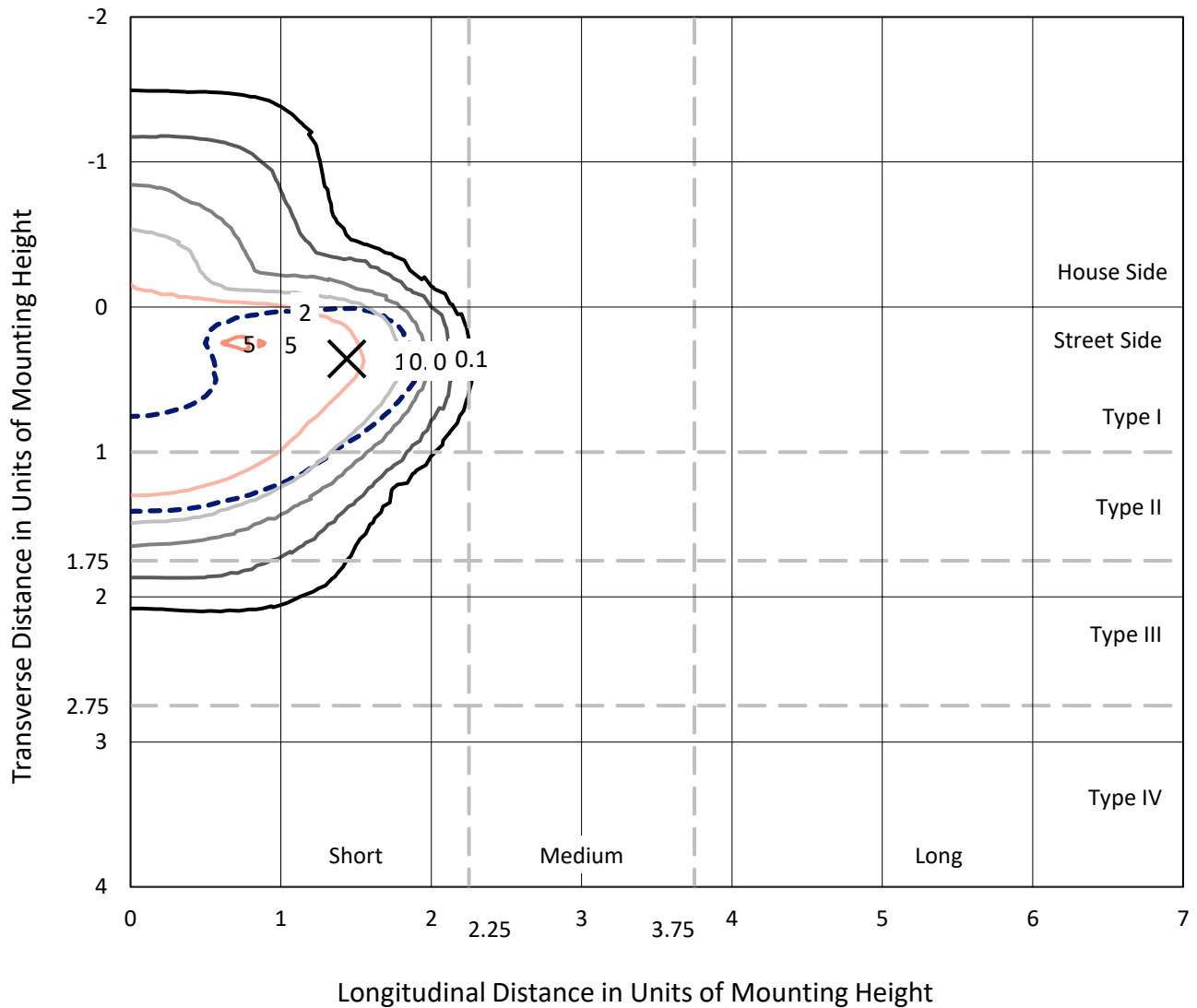
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

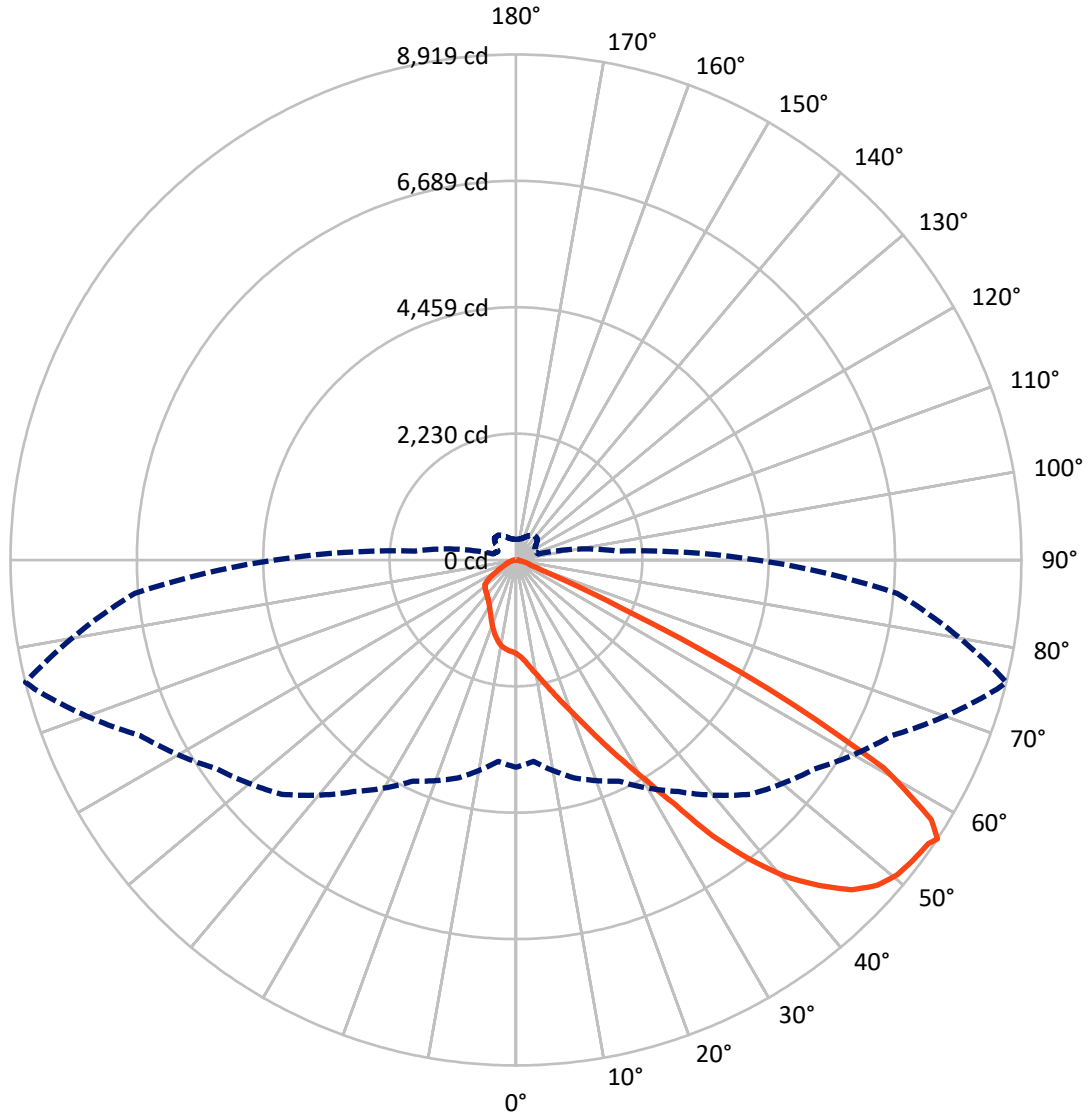
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1561.7	0.0	1561.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	8379.3	0.0	8379.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9941.0	0.0	9941.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	1.7
10°-20°	535.5	5.4
20°-30°	971.0	9.8
30°-40°	1674.6	16.8
40°-50°	2720.4	27.4
50°-60°	2867.4	28.8
60°-70°	876.1	8.8
70°-80°	112.3	1.1
80°-90°	17.1	0.2
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°	9941.0	100.0
0°-180°	9941.0	100.0

**Coefficient of Utilization**

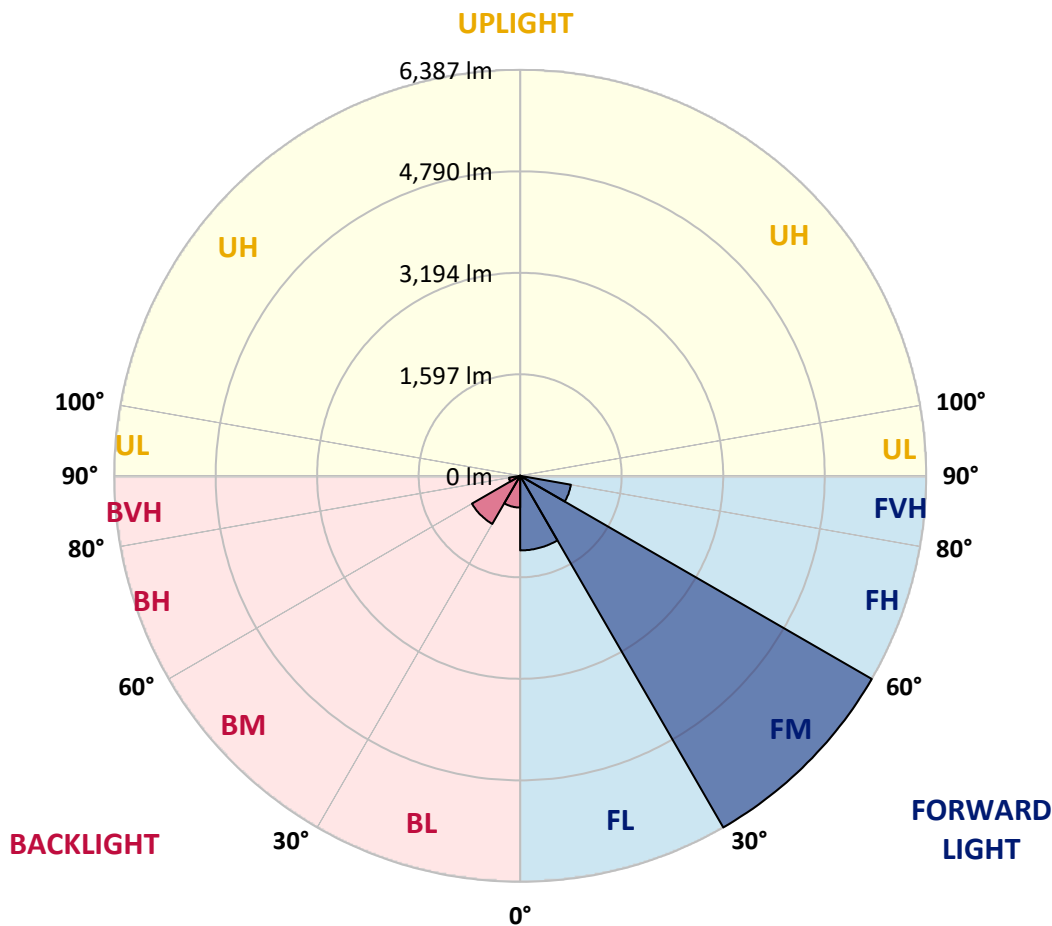


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.6	11.8			
FM (30°-60°)	6387.1	64.2			
FH (60°-80°)	810.3	8.2			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	499.6	5.0	B1/500		
BM (30°-60°)	875.2	8.8	B1/1000		
BH (60°-80°)	178.2	1.8	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7
2.5°	1905.7	1861.8	1863.6	1859.9	1854.4	1834.3	1773.8	1764.6	1724.3	1713.3	1676.7
5°	2134.8	2096.3	2118.3	2085.3	2054.2	2035.8	1936.9	1891.1	1826.9	1803.1	1751.8
7.5°	2277.7	2259.4	2252.1	2253.9	2224.6	2178.8	2134.8	2034.0	1947.9	1929.6	1821.4
10°	2347.4	2336.4	2347.4	2341.9	2354.7	2360.2	2283.2	2222.8	2096.3	2065.2	1896.6
12.5°	2363.8	2385.8	2395.0	2418.8	2450.0	2503.1	2497.6	2415.2	2246.6	2226.4	2012.0
15°	2404.2	2422.5	2413.3	2451.8	2510.4	2600.2	2647.9	2635.1	2453.6	2417.0	2145.8
17.5°	2440.8	2407.8	2439.0	2515.9	2574.6	2712.0	2827.5	2880.6	2679.0	2636.9	2268.6
20°	2490.3	2481.1	2475.6	2514.1	2618.6	2801.8	3030.9	3128.0	2931.9	2887.9	2444.5
22.5°	2640.5	2642.4	2638.7	2581.9	2657.0	2864.1	3208.6	3448.7	3234.3	3197.6	2644.2
25°	2838.5	2814.6	2796.3	2750.5	2741.3	2920.9	3388.2	3840.8	3597.1	3571.4	2860.4
27.5°	3047.3	3047.3	2992.4	2950.2	2891.6	3062.0	3553.1	4221.9	4035.0	4000.2	3049.2
30°	3274.6	3287.4	3280.1	3190.3	3153.6	3215.9	3721.7	4709.4	4537.1	4493.1	3360.7
32.5°	3609.9	3582.4	3613.6	3538.4	3430.3	3485.3	3987.4	5145.5	5189.5	5127.2	3769.3
35°	4053.4	4036.9	4016.7	3893.9	3765.7	3809.6	4363.0	5682.4	6008.6	5977.4	4181.6
37.5°	4451.0	4441.8	4425.3	4341.1	4192.6	4245.8	4790.0	6241.3	6807.5	6704.9	4764.3
40°	4868.8	4918.3	4865.1	4790.0	4654.4	4771.7	5292.1	6573.0	7480.0	7355.4	5209.6
42.5°	5435.0	5396.5	5420.4	5282.9	5209.6	5337.9	5796.0	6904.6	8002.3	7853.8	5682.4
45°	6037.9	6039.7	5975.6	5931.6	5741.0	5880.3	6105.7	7087.9	8418.2	8302.8	6039.7
47.5°	6424.5	6422.7	6492.3	6562.0	6365.9	6228.5	6316.4	7262.0	8632.6	8579.5	6169.8
50°	6364.1	6382.4	6472.2	6732.4	6835.0	6649.9	6514.3	7210.7	8729.7	8724.3	6281.6
52.5°	5535.8	5596.3	5746.5	6122.2	6638.9	6868.0	6721.4	7305.9	8777.4	8786.6	6448.4
55°	4214.6	4247.6	4533.5	4989.7	5561.5	6345.7	6638.9	7381.1	8814.0	8830.5	6649.9
56°	3655.7	3567.8	3980.1	4304.4	4987.9	5845.5	6430.0	7322.4	8792.1	8918.5	6750.7
57.5°	2759.7	2701.0	3034.5	3439.5	4097.3	5002.6	5781.4	7045.7	8643.6	8641.8	6606.0
60°	1678.5	1619.9	1876.4	2114.6	2483.0	3080.3	3906.8	5610.9	7307.8	7461.7	5348.9
62.5°	998.7	1035.3	1288.2	1433.0	1552.1	1614.4	2021.2	3335.0	4876.1	4986.1	3318.6
65°	665.2	678.0	868.6	1106.8	1159.9	923.6	822.8	1350.5	2114.6	2046.8	1368.8
67.5°	410.5	439.8	582.7	831.9	921.7	674.3	390.3	503.9	582.7	582.7	395.8
70°	249.2	263.9	388.5	566.2	632.2	434.3	284.0	284.0	280.4	274.9	236.4
72.5°	119.1	128.3	197.9	291.4	296.9	229.1	219.9	240.0	234.6	232.7	196.1
75°	51.3	55.0	69.6	91.6	104.4	97.1	133.8	172.2	177.7	172.2	141.1
77.5°	16.5	18.3	25.7	33.0	34.8	42.1	56.8	71.5	82.5	77.0	69.6
80°	1.8	3.7	7.3	16.5	25.7	33.0	42.1	47.6	53.1	53.1	49.5
82.5°	1.8	1.8	7.3	14.7	23.8	31.2	40.3	45.8	53.1	55.0	51.3
85°	0.0	1.8	5.5	12.8	20.2	20.2	18.3	18.3	12.8	12.8	12.8
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7	1654.7
2.5°	1669.4	1665.7	1616.2	1585.1	1568.6	1535.6	1515.4	1500.8	1489.8	1476.9	1478.8
5°	1691.3	1678.5	1596.1	1539.3	1471.5	1434.8	1403.6	1378.0	1361.5	1357.8	1350.5
7.5°	1753.6	1685.8	1561.2	1458.6	1372.5	1335.8	1308.4	1291.9	1299.2	1282.7	1295.5
10°	1801.3	1700.5	1519.1	1370.7	1284.5	1257.1	1242.4	1255.2	1273.5	1266.2	1257.1
12.5°	1859.9	1715.2	1451.3	1286.4	1205.7	1185.6	1211.2	1235.1	1271.7	1286.4	1268.0
15°	1925.9	1731.7	1365.2	1189.3	1137.9	1154.4	1198.4	1240.6	1277.2	1295.5	1306.5
17.5°	2006.5	1726.2	1280.9	1112.3	1073.8	1121.5	1174.6	1213.1	1268.0	1295.5	1288.2
20°	2081.7	1707.8	1187.4	1035.3	1037.2	1081.1	1125.1	1187.4	1216.7	1253.4	1240.6
22.5°	2153.1	1674.9	1090.3	982.2	982.2	1050.0	1072.0	1112.3	1137.9	1156.3	1154.4
25°	2253.9	1612.5	1009.7	930.9	952.9	996.8	1015.2	1028.0	1017.0	1031.7	1033.5
27.5°	2325.4	1548.4	943.7	885.1	925.4	958.4	952.9	945.5	919.9	899.7	912.6
30°	2402.3	1473.3	886.9	853.9	875.9	905.2	883.2	861.2	820.9	787.9	789.8
32.5°	2512.3	1438.5	837.4	817.3	846.6	850.3	826.4	793.4	753.1	722.0	720.1
35°	2717.5	1416.5	795.3	793.4	798.9	800.8	777.0	736.6	720.1	694.5	703.7
37.5°	2922.7	1405.5	766.0	758.6	756.8	758.6	731.1	692.7	723.8	722.0	725.6
40°	3184.8	1455.0	723.8	714.7	716.5	716.5	681.7	670.7	725.6	731.1	733.0
42.5°	3450.5	1517.3	696.3	667.0	674.3	674.3	656.0	643.2	681.7	645.0	639.5
45°	3681.4	1608.9	667.0	619.4	637.7	646.9	641.4	619.4	595.5	533.2	533.2
47.5°	3756.5	1689.5	632.2	573.6	588.2	628.5	612.0	566.2	524.1	472.8	469.1
50°	3888.4	1777.5	604.7	520.4	551.6	601.0	584.5	538.7	491.1	454.4	456.3
52.5°	4024.0	1878.3	553.4	458.1	496.6	579.1	579.1	527.7	454.4	428.8	425.1
55°	4227.4	1874.6	461.8	375.7	443.5	546.1	555.2	472.8	406.8	386.6	386.6
56°	4256.8	1790.3	416.0	351.8	419.6	536.9	538.7	458.1	388.5	366.5	366.5
57.5°	4036.9	1616.2	364.7	322.5	390.3	520.4	522.2	445.3	373.8	342.7	339.0
60°	3106.0	1094.0	304.2	287.7	353.7	469.1	478.3	405.0	328.0	304.2	302.4
62.5°	1753.6	606.5	267.5	260.2	304.2	399.5	427.0	353.7	278.5	265.7	269.4
65°	800.8	333.5	225.4	210.7	245.5	307.9	344.5	291.4	229.1	214.4	214.4
67.5°	293.2	227.2	192.4	166.8	172.2	199.7	223.6	188.7	152.1	130.1	135.6
70°	208.9	190.6	168.6	144.8	133.8	130.1	128.3	106.3	75.1	58.6	62.3
72.5°	168.6	157.6	141.1	122.8	104.4	88.0	75.1	55.0	34.8	23.8	22.0
75°	120.9	115.4	102.6	88.0	73.3	62.3	51.3	34.8	18.3	9.2	9.2
77.5°	62.3	62.3	60.5	55.0	45.8	36.6	29.3	20.2	11.0	3.7	3.7
80°	47.6	51.3	53.1	47.6	42.1	33.0	23.8	14.7	7.3	1.8	1.8
82.5°	45.8	53.1	56.8	49.5	42.1	31.2	23.8	14.7	7.3	1.8	1.8
85°	11.0	11.0	16.5	18.3	23.8	25.7	20.2	12.8	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	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)