

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: P455749

Luminaire Tested: **GALN-SA7A-722-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-722-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23863 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

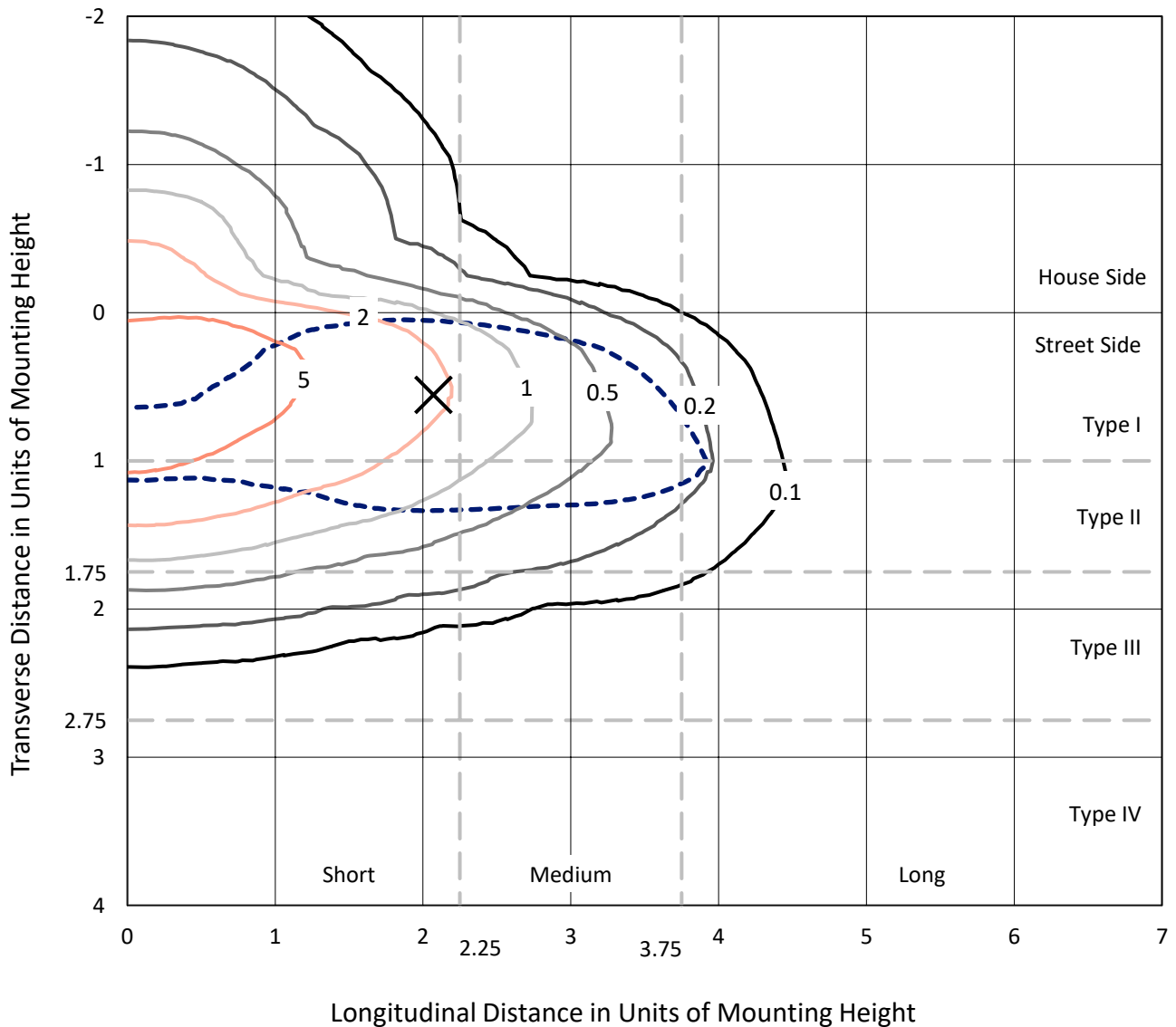
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

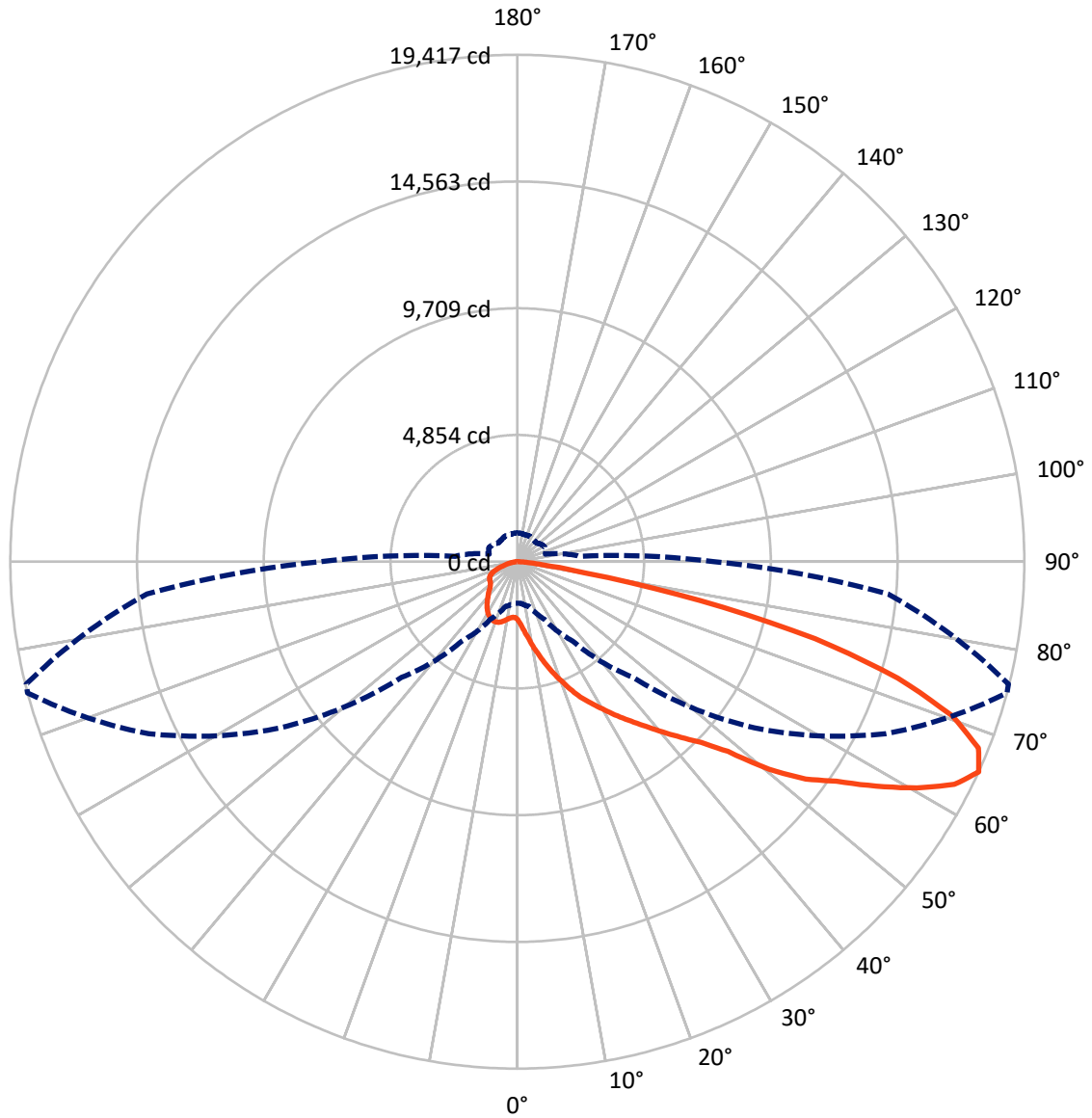
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4011.7	0.0	4011.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	19851.3	0.0	19851.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	23863.0	0.0	23863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.4	1.1
10°-20°	1055.1	4.4
20°-30°	2038.1	8.5
30°-40°	3310.6	13.9
40°-50°	4554.0	19.1
50°-60°	5376.7	22.5
60°-70°	4710.9	19.7
70°-80°	2249.0	9.4
80°-90°	299.3	1.3
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°	23863.0	100.0
0°-180°	23863.0	100.0

**Coefficient of Utilization**



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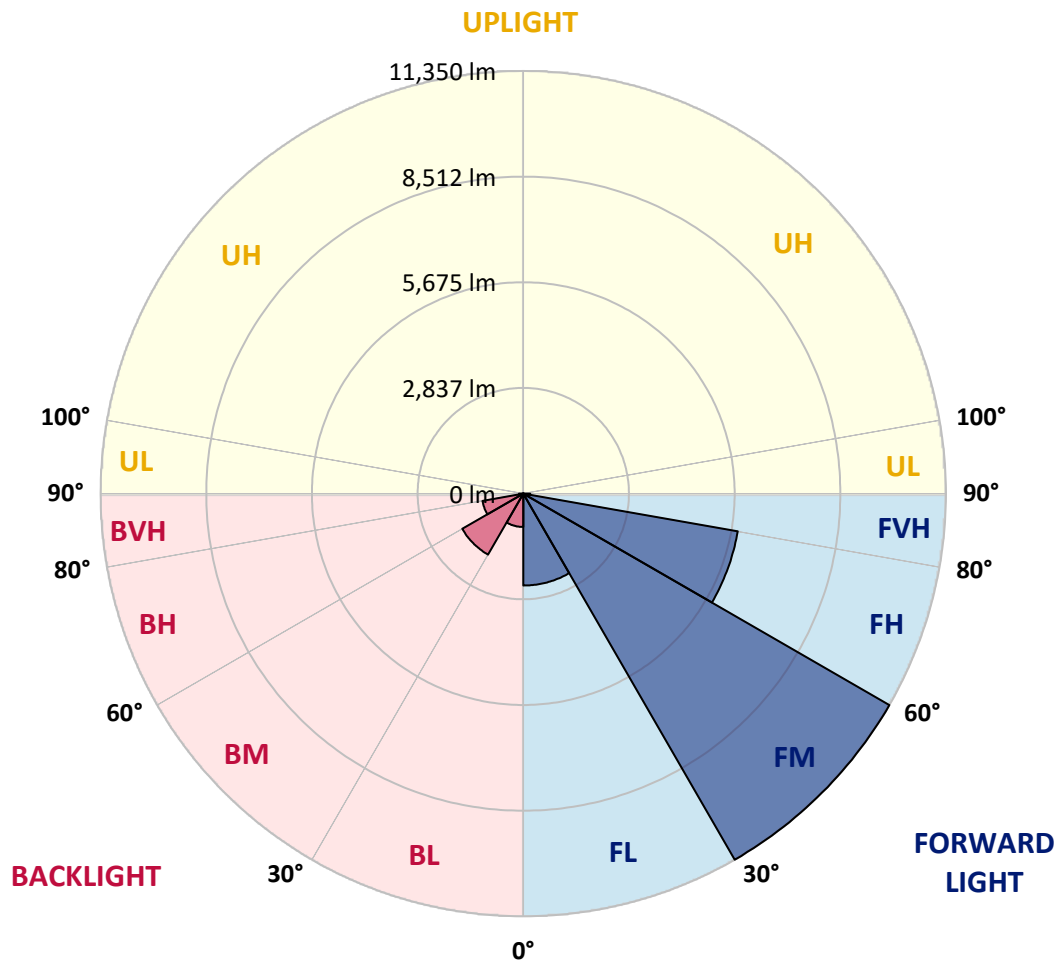
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.1	10.3			
FM	(30°-60°)	11349.7	47.6			
FH	(60°-80°)	5847.5	24.5			G3/7500
FVH	(80°-90°)	187.0	0.8			G2/225
BL	(0°-30°)	895.6	3.8	B2/1000		
BM	(30°-60°)	1891.5	7.9	B2/2500		
BH	(60°-80°)	1112.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	112.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2945.9	2926.5	2905.8	2848.8	2788.0	2719.4	2621.0	2526.5	2401.0	2397.1	2303.9
5°	3762.6	3749.7	3657.8	3604.7	3463.6	3275.9	3116.7	2869.5	2640.4	2613.2	2432.0
7.5°	4513.3	4462.8	4427.9	4332.1	4192.3	3951.6	3643.5	3309.6	2926.5	2890.2	2589.9
10°	5078.9	5073.7	5055.6	4972.8	4867.9	4628.5	4286.8	3807.9	3288.9	3217.7	2781.5
12.5°	5502.2	5506.0	5503.5	5502.2	5427.1	5223.9	4853.7	4348.9	3655.2	3604.7	3002.8
15°	5780.4	5819.3	5834.8	5899.5	5906.0	5770.1	5451.7	4871.8	4068.1	3993.0	3241.0
17.5°	5964.2	5983.7	6056.1	6166.2	6255.5	6230.9	5947.4	5355.9	4490.0	4364.5	3488.2
20°	6140.3	6173.9	6229.6	6379.7	6537.6	6610.1	6410.8	5851.6	4908.1	4827.8	3761.3
22.5°	6506.6	6554.4	6573.9	6650.2	6784.8	6913.0	6822.4	6326.6	5366.3	5257.5	4051.2
25°	7126.5	7177.0	7122.7	7104.5	7148.5	7212.0	7192.5	6774.5	5798.6	5643.2	4325.6
27.5°	7934.2	7940.7	7834.5	7733.6	7624.9	7592.5	7533.0	7171.8	6173.9	6044.5	4601.3
30°	8801.4	8770.3	8594.3	8411.8	8228.0	8046.8	7876.0	7555.0	6592.0	6443.1	4871.8
32.5°	9606.5	9589.6	9394.2	9110.7	8800.1	8629.2	8283.7	7942.0	7039.8	6896.1	5150.1
35°	10209.6	10234.2	10019.3	9710.0	9370.9	9219.5	8783.3	8348.4	7503.2	7346.6	5453.0
37.5°	10638.0	10625.1	10434.8	10166.9	9869.2	9737.2	9367.0	8792.3	8001.5	7851.4	5784.3
40°	10790.8	10783.0	10641.9	10446.5	10257.5	10210.9	9977.9	9271.2	8572.3	8396.3	6183.0
42.5°	10693.7	10710.5	10617.3	10564.3	10529.3	10563.0	10585.0	9899.0	9194.9	9033.1	6615.3
45°	10396.0	10386.9	10374.0	10460.7	10657.4	10878.8	11185.5	10491.8	9871.8	9742.4	7195.1
47.5°	9864.0	9928.7	9961.1	10200.6	10630.3	11154.5	11876.7	11286.5	10854.2	10741.6	8079.2
50°	9119.8	9171.6	9363.1	9789.0	10429.6	11258.0	12552.3	12586.0	12492.8	12281.8	9039.5
52.5°	7957.5	8037.7	8432.5	9213.0	10018.1	11215.3	12961.3	13700.4	13823.4	13665.5	9985.7
55°	6656.7	6769.3	7186.1	8209.9	9451.1	10982.3	13243.5	14346.3	14836.8	14690.6	10896.9
57.5°	5383.1	5502.2	5930.6	6922.0	8462.3	10467.2	13428.6	15065.9	16216.6	16026.3	12030.7
60°	4034.4	4158.7	4526.2	5547.5	7054.1	9460.2	13303.0	15689.8	17595.0	17513.5	13165.8
62.5°	2602.9	2740.1	3059.8	3905.0	5421.9	8084.3	12631.3	16034.1	18788.4	18690.0	13994.2
65°	1585.5	1601.1	1777.1	2424.3	3710.8	6259.3	11094.9	15577.2	19417.4	19387.7	14246.6
67.5°	1025.1	1049.7	1129.9	1452.2	2224.9	4347.6	8871.3	14069.3	19049.8	19039.5	13725.0
70°	865.9	873.7	909.9	979.8	1293.0	2636.5	6229.6	11665.7	17653.3	17653.3	12470.8
72.5°	774.0	784.4	797.3	819.3	922.9	1493.6	3717.3	9081.0	15241.9	15342.9	10614.7
75°	702.8	700.2	708.0	711.9	786.9	975.9	1922.1	6716.2	11791.3	11589.4	7687.0
77.5°	601.9	605.7	601.9	618.7	695.1	742.9	975.9	4506.8	7146.0	6884.5	3858.4
80°	494.4	500.9	507.4	517.7	594.1	564.3	586.3	2054.1	2643.0	2587.4	1192.1
82.5°	371.5	380.5	390.9	415.5	467.3	372.8	370.2	877.6	953.9	873.7	438.8
85°	150.1	177.3	267.9	292.5	293.8	204.5	227.8	366.3	389.6	380.5	172.1
87.5°	34.9	41.4	86.7	130.7	120.4	76.4	84.1	119.1	135.9	125.5	58.2
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°	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2	2217.2
2.5°	2261.2	2215.9	2138.2	2078.7	2036.0	1998.4	1975.1	1960.9	1955.7	1954.4	1955.7
5°	2337.5	2257.3	2134.3	2056.7	2014.0	1989.4	1975.1	1973.8	1975.1	1976.4	1972.5
7.5°	2442.4	2327.2	2166.7	2094.2	2061.9	2043.7	2037.3	2034.7	2036.0	2034.7	2034.7
10°	2582.2	2424.3	2230.1	2155.0	2127.9	2107.2	2096.8	2090.3	2085.2	2080.0	2077.4
12.5°	2736.2	2531.7	2298.7	2226.2	2187.4	2155.0	2131.7	2114.9	2103.3	2091.6	2089.0
15°	2908.3	2645.6	2375.1	2274.1	2218.5	2170.6	2130.5	2103.3	2082.6	2065.7	2064.4
17.5°	3072.7	2753.0	2426.9	2296.1	2214.6	2147.3	2094.2	2056.7	2030.8	2008.8	2006.2
20°	3248.7	2855.3	2450.2	2281.9	2175.8	2094.2	2024.3	1979.0	1949.2	1924.7	1920.8
22.5°	3426.1	2942.0	2447.6	2236.6	2108.5	2012.7	1938.9	1891.0	1856.1	1831.5	1822.4
25°	3595.6	3011.9	2415.2	2164.1	2015.3	1915.6	1840.5	1796.5	1765.5	1735.7	1735.7
27.5°	3748.4	3053.3	2354.4	2076.1	1919.5	1814.6	1755.1	1715.0	1686.5	1667.1	1655.4
30°	3898.5	3072.7	2271.5	1964.8	1818.5	1729.2	1681.3	1658.0	1632.1	1610.1	1607.5
32.5°	4033.1	3068.8	2168.0	1856.1	1722.7	1659.3	1639.9	1621.8	1594.6	1563.5	1555.8
35°	4163.8	3043.0	2045.0	1737.0	1642.5	1617.9	1623.1	1597.2	1548.0	1509.2	1502.7
37.5°	4306.2	2996.4	1910.4	1639.9	1575.2	1598.5	1611.4	1554.5	1474.2	1413.4	1399.2
40°	4470.6	2943.3	1770.6	1542.8	1522.1	1580.4	1580.4	1475.5	1365.5	1328.0	1317.6
42.5°	4663.4	2899.3	1654.1	1461.3	1478.1	1536.4	1529.9	1370.7	1325.4	1306.0	1300.8
45°	4968.9	2883.8	1533.8	1390.1	1441.9	1484.6	1431.5	1334.4	1308.6	1293.0	1287.9
47.5°	5451.7	2901.9	1427.6	1337.0	1400.5	1432.8	1321.5	1309.9	1291.7	1269.7	1267.1
50°	5899.5	2885.0	1352.6	1307.3	1364.2	1370.7	1276.2	1280.1	1269.7	1245.1	1240.0
52.5°	6265.8	2832.0	1304.7	1291.7	1333.2	1262.0	1233.5	1247.7	1243.8	1212.8	1207.6
55°	6668.3	2799.6	1281.4	1291.7	1312.4	1167.5	1193.4	1214.1	1208.9	1186.9	1185.6
57.5°	7156.3	2806.1	1264.6	1295.6	1291.7	1119.6	1153.2	1177.8	1176.5	1170.1	1170.1
60°	7655.9	2808.7	1238.7	1294.3	1267.1	1082.1	1111.8	1146.8	1149.4	1153.2	1153.2
62.5°	7821.6	2696.1	1188.2	1271.0	1212.8	1045.8	1073.0	1120.9	1118.3	1128.6	1129.9
65°	7512.2	2384.1	1113.1	1218.0	1142.9	1019.9	1043.2	1087.2	1073.0	1100.2	1105.4
67.5°	6837.9	1972.5	996.6	1122.2	1065.2	992.7	1023.8	1040.6	1014.7	1067.8	1069.1
70°	5909.9	1540.2	849.1	986.3	977.2	964.3	1008.3	982.4	946.1	1010.9	997.9
72.5°	4941.7	1176.5	678.2	806.4	859.4	921.6	981.1	907.3	856.8	876.3	853.0
75°	3712.1	869.8	544.9	631.6	715.8	860.7	956.5	816.7	739.1	720.9	715.8
77.5°	1892.3	568.2	407.7	472.4	537.1	777.9	922.9	710.6	612.2	583.7	570.8
80°	675.6	353.3	287.3	326.2	362.4	669.2	806.4	587.6	475.0	469.8	475.0
82.5°	313.2	227.8	192.9	213.6	214.9	446.5	614.8	438.8	361.1	548.8	463.4
85°	134.6	113.9	108.7	106.1	98.4	199.3	345.6	235.6	367.6	164.4	151.4
87.5°	40.1	45.3	40.1	29.8	22.0	22.0	34.9	12.9	9.1	6.5	6.5
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)