

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: P530243

Luminaire Tested: **GALN-SA5C-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-722-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17117 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

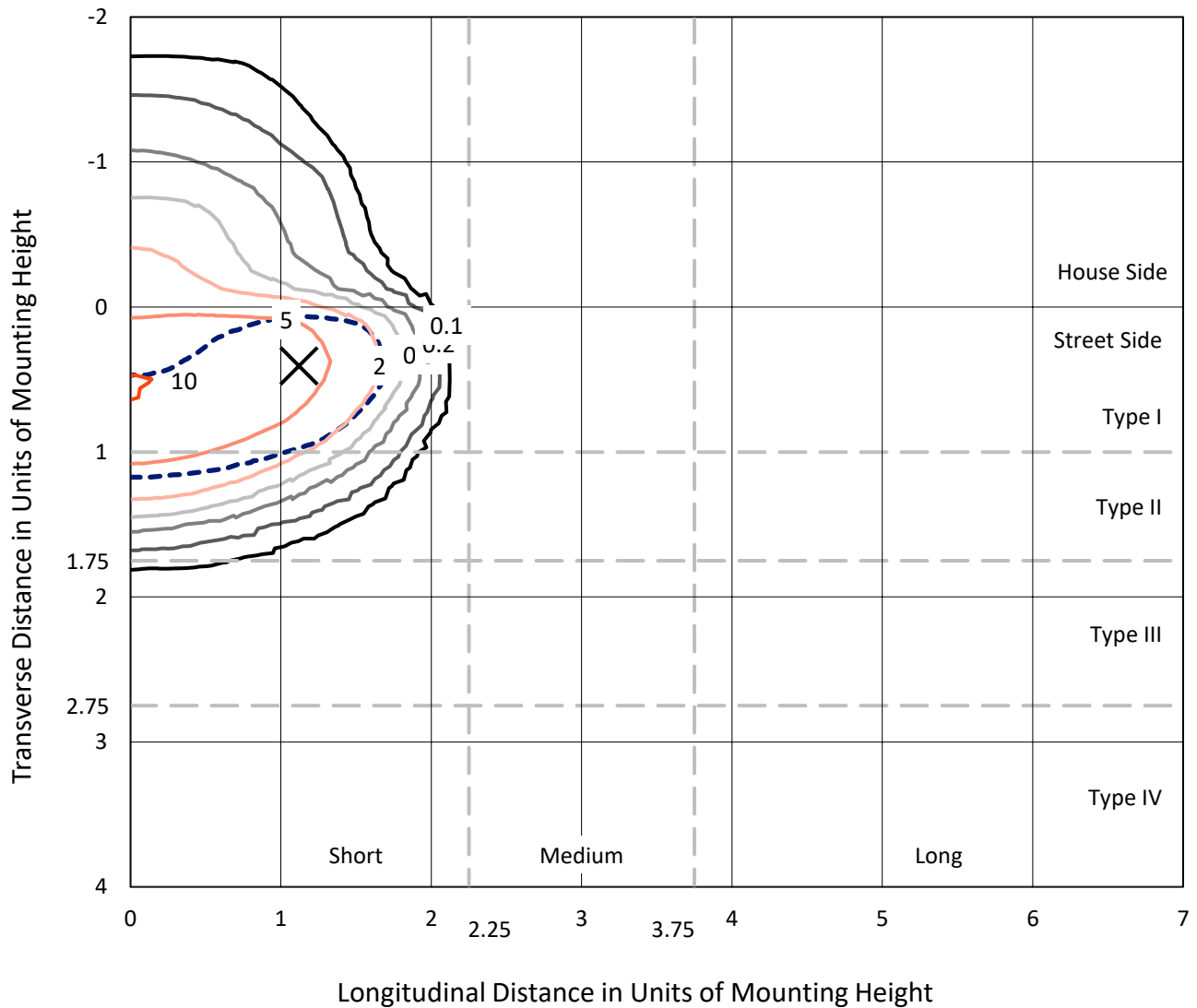
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

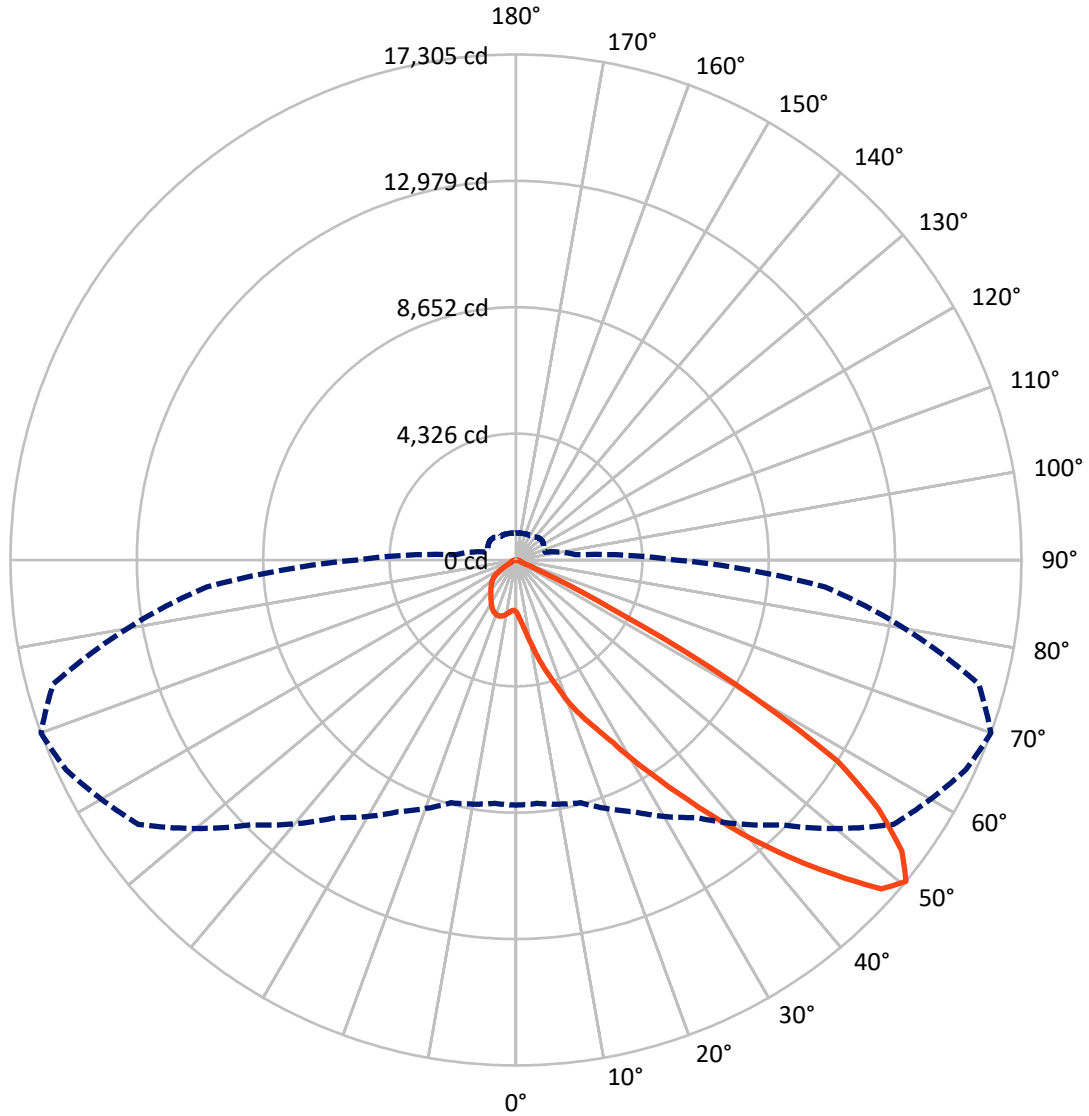
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2390.5	0.0	2390.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14726.5	0.0	14726.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	17117.0	0.0	17117.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	1.3
10°-20°	997.3	5.8
20°-30°	2092.1	12.2
30°-40°	3606.2	21.1
40°-50°	5270.4	30.8
50°-60°	4104.7	24.0
60°-70°	695.5	4.1
70°-80°	95.5	0.6
80°-90°	24.7	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°	17117.0	100.0
0°-180°	17117.0	100.0

**Coefficient of Utilization**



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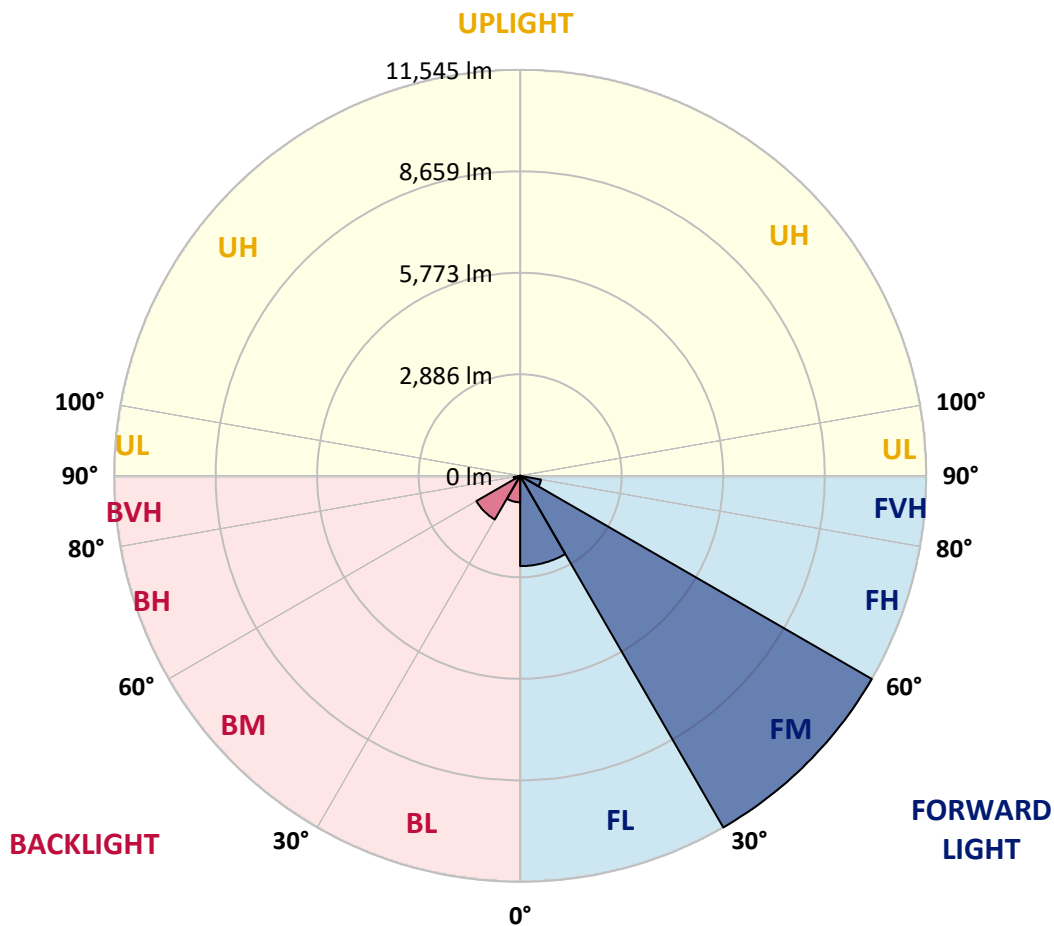
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.7	15.0			
FM (30°-60°)	11545.1	67.4			
FH (60°-80°)	602.2	3.5			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	752.2	4.4	B2/1000		
BM (30°-60°)	1436.1	8.4	B2/2500		
BH (60°-80°)	188.8	1.1	B1/500		G1/500
BVH (80°-90°)	13.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0
2.5°	2321.8	2304.9	2268.3	2200.8	2172.6	2105.1	2065.7	1989.7	1941.8	1888.4	1829.3
5°	3270.2	3182.9	3129.5	3053.5	2831.1	2693.2	2465.3	2271.1	2181.1	2082.6	1947.5
7.5°	4249.5	4193.2	4120.1	3956.9	3804.9	3517.8	3126.6	2698.9	2515.9	2347.1	2079.7
10°	5060.0	4902.4	4894.0	4773.0	4606.9	4263.6	3793.6	3261.7	2935.3	2687.6	2268.3
12.5°	5625.7	5482.2	5546.9	5532.8	5378.1	5062.9	4519.7	3816.1	3475.6	3090.1	2462.5
15°	6140.7	6081.6	6061.9	6045.0	5983.1	5749.5	5262.7	4491.6	3999.1	3534.7	2682.0
17.5°	6644.5	6492.5	6565.7	6579.7	6574.1	6363.0	5907.1	5133.2	4553.5	4004.7	2912.8
20°	7091.9	7106.0	7007.5	6987.8	6970.9	6962.5	6517.8	5769.2	5234.5	4497.2	3213.9
22.5°	7666.0	7567.5	7654.8	7598.5	7488.7	7421.2	7080.7	6332.1	5825.5	5091.0	3520.6
25°	8344.3	8423.1	8217.6	8195.1	8074.1	7840.5	7533.8	6962.5	6394.0	5642.6	3852.7
27.5°	9180.1	9042.2	8988.7	8864.9	8645.4	8546.9	8186.7	7612.6	7080.7	6222.3	4173.5
30°	9897.8	9861.2	9593.8	9447.5	9256.1	9253.3	8749.5	8493.4	7975.6	7131.3	4615.4
32.5°	10483.1	10322.7	10224.2	10122.9	9968.1	10010.3	9585.4	9450.3	8929.6	7975.6	5136.0
35°	10874.3	10758.9	10699.8	10545.0	10500.0	10688.6	10511.3	10455.0	10027.2	9163.2	5746.7
37.5°	10998.1	11034.7	11023.5	10829.3	10925.0	11434.3	11662.3	11516.0	11290.8	10415.6	6408.1
40°	11107.9	11133.2	11076.9	11304.9	11577.9	12157.6	12982.2	12740.2	12655.7	11684.8	7328.3
42.5°	11169.8	11150.1	11150.1	11544.1	11957.8	13122.9	14257.0	14096.6	14031.9	13035.7	8392.1
45°	10902.4	10711.1	10916.5	11451.2	12284.2	13598.5	15275.8	15498.1	15405.3	14642.6	9636.0
47.5°	9903.4	10021.6	10137.0	10851.8	11887.4	13452.2	15900.6	16657.6	16829.3	15993.4	10452.2
50°	8392.1	8366.8	8606.0	9506.6	10764.5	12821.8	15779.6	16992.5	17304.9	16398.7	10623.8
52.5°	6104.1	6289.9	6548.8	7443.7	8935.3	11189.5	14217.6	16128.5	16545.0	15900.6	10511.3
55°	3554.4	3349.0	3931.5	4688.6	6095.7	8440.0	12019.7	14296.4	15067.6	14994.4	9942.8
57.5°	1424.0	1379.0	1578.8	2127.6	3180.1	5231.7	8741.1	11746.7	12982.2	13733.6	8738.3
60°	624.8	610.7	717.6	866.8	1300.2	2411.8	4781.4	7305.8	8594.8	9596.6	6014.1
62.5°	450.3	444.7	498.1	551.6	686.7	1049.7	2009.4	2943.7	3669.8	4432.5	2693.2
65°	363.0	377.1	413.7	441.8	506.6	582.6	709.2	818.9	1004.7	1041.3	593.8
67.5°	295.5	306.8	340.5	371.5	382.7	315.2	326.5	287.1	287.1	256.1	205.4
70°	216.7	219.5	258.9	295.5	236.4	126.6	222.3	222.3	199.8	191.4	174.5
72.5°	160.4	163.2	194.2	182.9	92.9	78.8	163.2	180.1	163.2	154.8	140.7
75°	118.2	121.0	101.3	42.2	39.4	50.7	95.7	123.8	118.2	115.4	106.9
77.5°	22.5	16.9	14.1	19.7	28.1	42.2	61.9	76.0	78.8	84.4	78.8
80°	2.8	2.8	8.4	16.9	31.0	45.0	64.7	73.2	76.0	78.8	73.2
82.5°	0.0	2.8	8.4	16.9	31.0	42.2	56.3	64.7	70.4	73.2	70.4
85°	0.0	2.8	5.6	14.1	25.3	31.0	28.1	19.7	16.9	19.7	14.1
87.5°	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0	1773.0
2.5°	1795.5	1784.2	1744.8	1702.6	1666.0	1682.9	1666.0	1652.0	1657.6	1652.0	1646.3
5°	1894.0	1843.3	1758.9	1722.3	1691.4	1688.6	1680.1	1677.3	1680.1	1680.1	1654.8
7.5°	1986.9	1905.3	1815.2	1775.8	1739.2	1742.0	1722.3	1722.3	1719.5	1705.4	1699.8
10°	2127.6	2017.8	1902.4	1832.1	1787.1	1778.6	1758.9	1739.2	1739.2	1739.2	1711.1
12.5°	2282.4	2144.5	1986.9	1905.3	1851.8	1809.6	1778.6	1773.0	1742.0	1736.4	1722.3
15°	2417.4	2243.0	2043.2	1930.6	1863.0	1806.8	1758.9	1728.0	1713.9	1705.4	1694.2
17.5°	2549.7	2327.4	2074.1	1930.6	1857.4	1792.7	1742.0	1713.9	1680.1	1685.7	1663.2
20°	2727.0	2417.4	2082.6	1894.0	1803.9	1742.0	1674.5	1660.4	1640.7	1623.8	1629.5
22.5°	2898.7	2482.2	2057.2	1849.0	1719.5	1646.3	1612.6	1595.7	1587.2	1573.2	1553.5
25°	3053.5	2552.5	2017.8	1767.4	1629.5	1576.0	1545.0	1542.2	1522.5	1522.5	1485.9
27.5°	3211.1	2577.9	1950.3	1671.7	1550.7	1519.7	1505.6	1500.0	1491.6	1471.9	1446.5
30°	3391.2	2586.3	1851.8	1573.2	1480.3	1446.5	1466.2	1480.3	1443.7	1407.1	1418.4
32.5°	3540.3	2566.6	1733.6	1480.3	1429.6	1412.8	1452.2	1466.2	1424.0	1384.6	1364.9
35°	3720.5	2518.8	1618.2	1407.1	1379.0	1412.8	1446.5	1446.5	1362.1	1314.3	1303.0
37.5°	3993.4	2465.3	1511.3	1345.2	1325.5	1395.9	1440.9	1409.9	1277.7	1218.6	1204.5
40°	4286.1	2431.5	1407.1	1283.3	1297.4	1367.7	1393.1	1297.4	1162.3	1125.7	1114.4
42.5°	4711.1	2364.0	1314.3	1229.8	1272.0	1328.3	1328.3	1156.7	1106.0	1086.3	1083.5
45°	5240.2	2316.1	1232.6	1184.8	1235.5	1249.5	1204.5	1083.5	1046.9	1041.3	1044.1
47.5°	5499.1	2223.3	1148.2	1131.3	1167.9	1170.7	1052.5	1024.4	993.4	985.0	979.4
50°	5459.7	2057.2	1038.5	1061.0	1111.6	1083.5	959.7	965.3	937.1	934.3	920.3
52.5°	5183.9	1795.5	928.7	982.2	1038.5	956.8	883.7	878.0	878.0	841.5	827.4
55°	4595.7	1446.5	796.4	864.0	931.5	804.9	785.2	779.6	765.5	731.7	723.3
57.5°	3638.8	1061.0	599.4	672.6	790.8	683.9	681.1	655.7	619.1	593.8	593.8
60°	2164.2	610.7	377.1	410.9	523.5	554.4	616.3	605.1	543.2	503.8	492.5
62.5°	987.8	315.2	239.2	244.8	281.4	360.2	484.1	560.0	472.8	405.3	399.6
65°	332.1	233.6	197.0	188.6	194.2	216.7	289.9	396.8	377.1	312.4	301.1
67.5°	202.6	208.3	185.7	171.7	171.7	168.9	166.0	180.1	222.3	216.7	219.5
70°	174.5	191.4	171.7	154.8	149.2	140.7	118.2	98.5	84.4	98.5	104.1
72.5°	140.7	152.0	146.3	132.3	118.2	106.9	84.4	64.7	47.8	42.2	42.2
75°	104.1	112.6	118.2	101.3	90.1	76.0	61.9	42.2	25.3	16.9	16.9
77.5°	76.0	84.4	87.2	78.8	67.5	53.5	39.4	28.1	14.1	5.6	5.6
80°	64.7	76.0	84.4	78.8	70.4	50.7	36.6	19.7	11.3	2.8	2.8
82.5°	61.9	76.0	84.4	76.0	67.5	47.8	36.6	22.5	8.4	2.8	2.8
85°	14.1	19.7	25.3	31.0	36.6	36.6	28.1	16.9	8.4	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	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)