

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: P529048

Luminaire Tested: **GALN-SA4A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12633 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

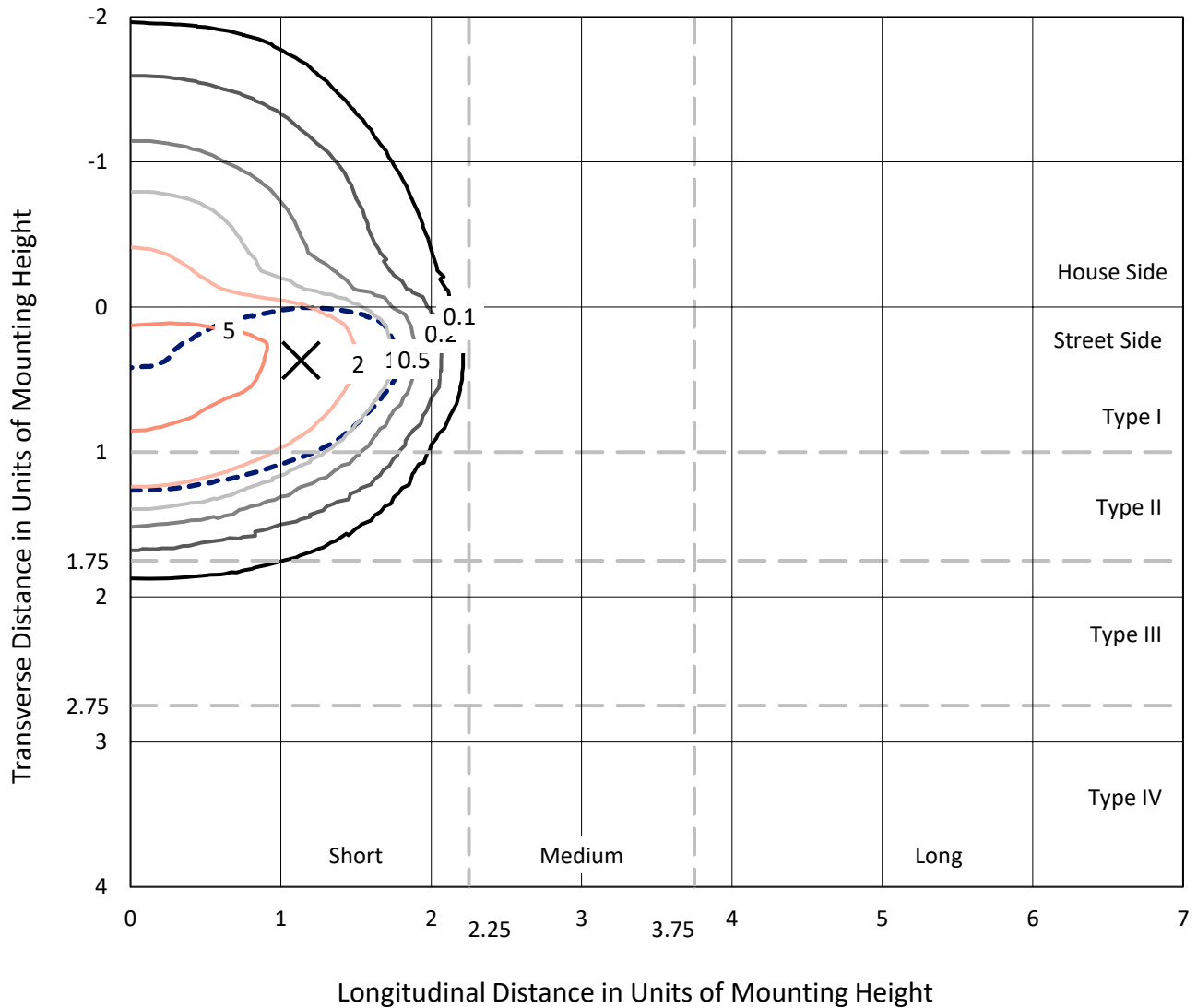
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

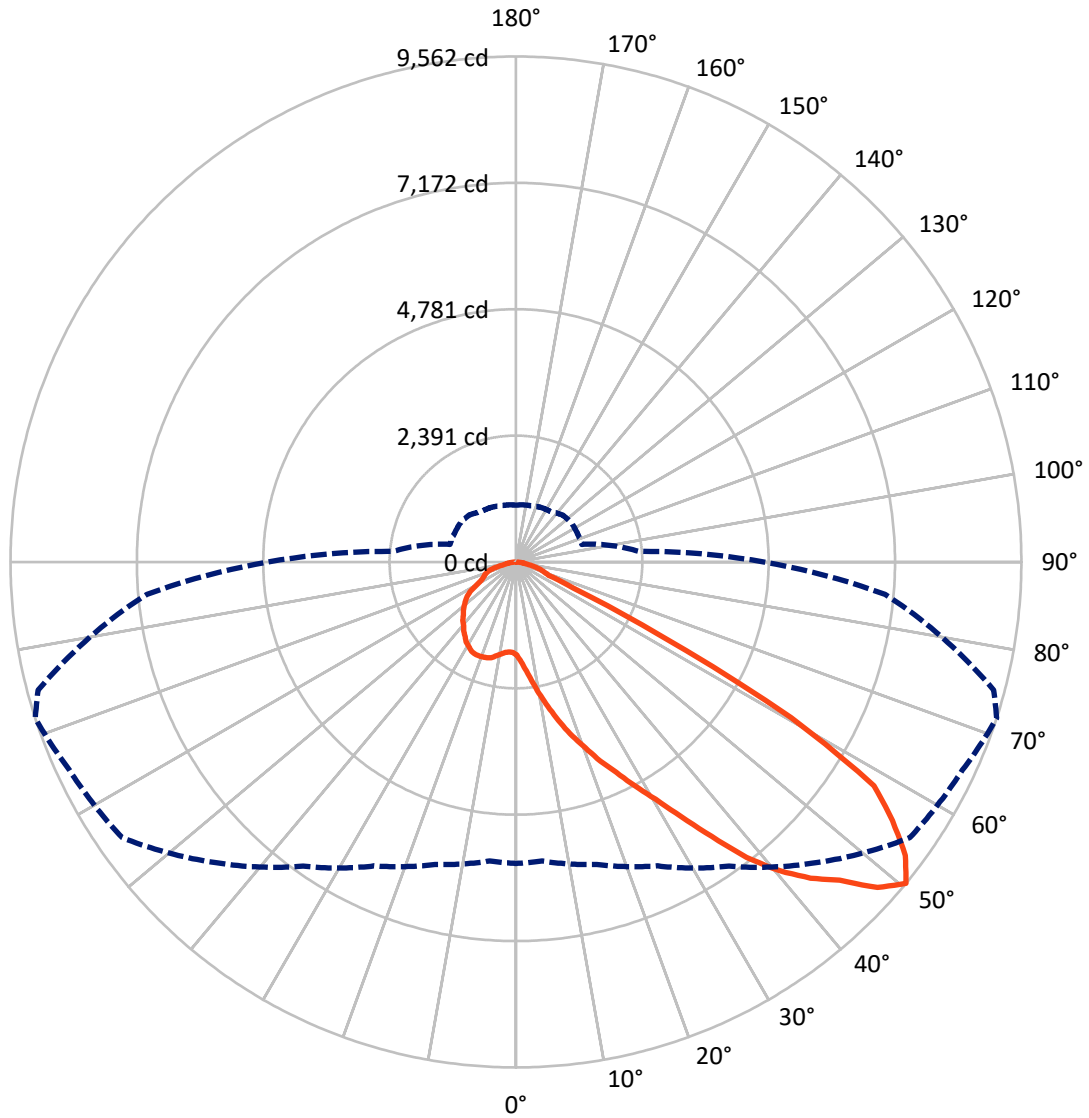
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2894.3	0.0	2894.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9738.7	0.0	9738.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	12633.0	0.0	12633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.9	1.6
10°-20°	773.3	6.1
20°-30°	1499.4	11.9
30°-40°	2484.0	19.7
40°-50°	3475.6	27.5
50°-60°	2932.1	23.2
60°-70°	893.7	7.1
70°-80°	313.5	2.5
80°-90°	54.5	0.4
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°	12633.0	100.0
0°-180°	12633.0	100.0

**Coefficient of Utilization**

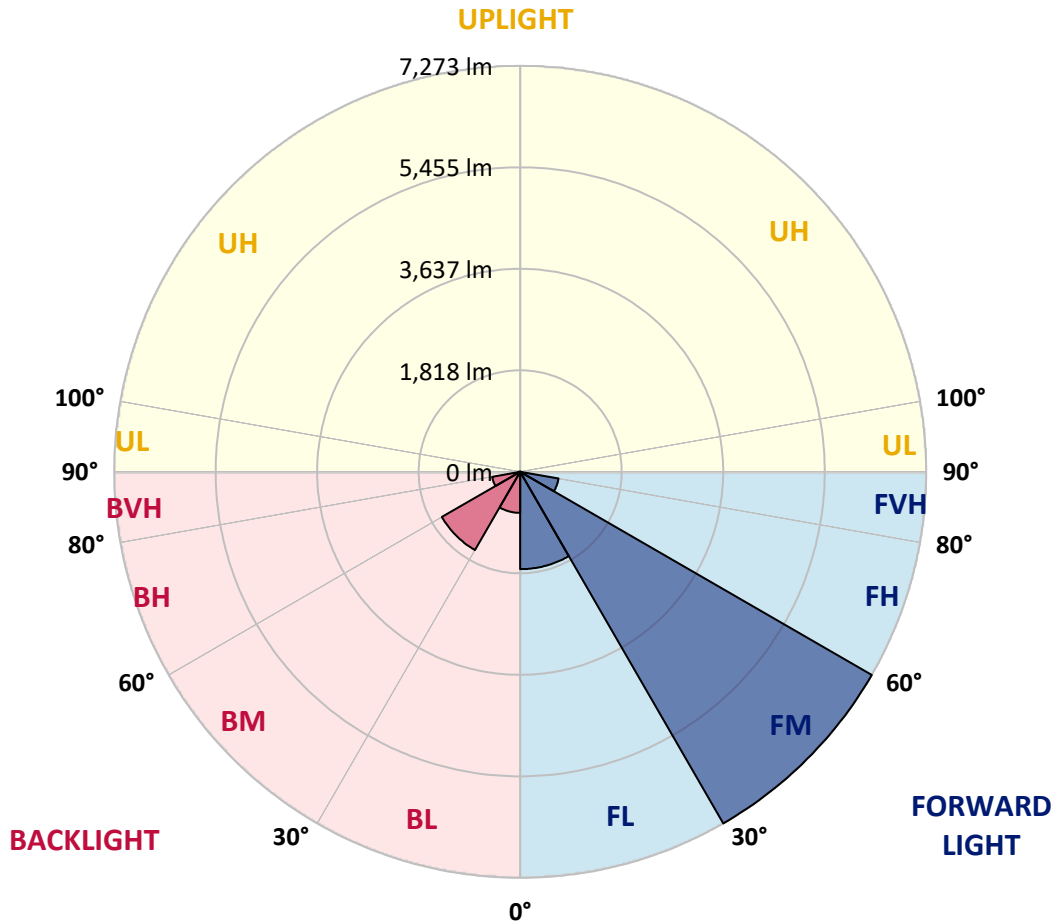


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.8	13.8			
FM (30°-60°)	7273.2	57.6			
FH (60°-80°)	697.3	5.5			G1/1800
FVH (80°-90°)	24.4	0.2			G1/100
BL (0°-30°)	735.7	5.8	B2/1000		
BM (30°-60°)	1618.5	12.8	B2/2500		
BH (60°-80°)	509.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	30.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
2.5°	2262.0	2247.9	2205.7	2191.6	2141.6	2050.9	2019.7	1927.4	1888.4	1852.4	1810.2
5°	2860.7	2795.0	2790.3	2710.6	2594.9	2527.7	2327.6	2193.2	2069.7	2007.2	1891.5
7.5°	3242.1	3243.7	3243.7	3178.0	3085.8	2915.4	2735.6	2493.3	2307.3	2215.1	2018.1
10°	3604.8	3573.5	3556.3	3550.1	3487.5	3321.8	3129.6	2829.4	2574.6	2466.8	2113.5
12.5°	3861.2	3834.6	3873.7	3853.3	3808.0	3700.1	3518.8	3176.5	2857.6	2712.2	2266.7
15°	3983.1	4001.8	4033.1	4089.4	4069.1	4028.4	3828.3	3532.9	3162.4	2998.3	2402.7
17.5°	4170.7	4119.1	4156.6	4226.9	4283.2	4264.5	4150.3	3790.8	3464.1	3262.4	2585.6
20°	4302.0	4272.3	4291.0	4372.3	4414.5	4520.8	4461.4	4128.5	3753.3	3540.7	2801.3
22.5°	4677.2	4633.4	4572.4	4584.9	4600.6	4675.6	4689.7	4498.9	4089.4	3864.3	3006.1
25°	5139.9	5099.2	5027.3	4953.8	4908.5	4894.4	4942.9	4789.7	4411.4	4178.5	3226.5
27.5°	5649.5	5580.7	5535.4	5383.7	5261.8	5243.0	5219.6	5136.7	4792.8	4541.2	3475.0
30°	6145.0	6090.3	6029.3	5787.0	5660.4	5640.1	5524.4	5547.9	5207.1	4927.3	3756.4
32.5°	6520.2	6524.9	6385.7	6202.9	6084.0	5976.2	5934.0	6001.2	5738.6	5513.5	4070.6
35°	6823.5	6837.5	6704.6	6538.9	6410.8	6485.8	6467.0	6498.3	6373.2	6098.1	4436.4
37.5°	7118.9	7048.6	6906.3	6826.6	6759.4	6882.9	7042.3	7068.9	7092.3	6768.7	4861.6
40°	7167.4	7173.6	7090.8	7147.0	7062.6	7248.6	7619.1	7584.7	7680.1	7397.2	5322.8
42.5°	7098.6	7112.6	7145.5	7225.2	7428.4	7652.0	8202.2	8061.5	8177.2	7925.5	5771.4
45°	6986.0	6928.2	6968.8	7272.1	7623.8	8120.9	8735.3	8625.8	8588.3	8377.3	6306.0
47.5°	6448.3	6507.7	6634.3	7007.9	7536.3	8202.2	9113.6	9088.6	9201.1	9052.6	6792.2
50°	5702.6	5679.2	5923.0	6343.5	7025.1	8042.8	9093.2	9319.9	9562.2	9355.9	7009.5
52.5°	4270.7	4395.8	4605.2	5127.4	6099.7	7173.6	8649.3	9027.6	9224.6	9180.8	6834.4
55°	2699.7	2737.2	2863.8	3484.4	4359.8	5757.3	7414.3	8291.3	8643.0	8807.2	6673.4
57.5°	1311.5	1241.2	1396.0	1894.6	2518.3	3872.1	5718.3	7222.1	7986.5	8283.5	6323.2
60°	684.7	711.3	772.2	950.4	1302.2	2010.3	3564.1	4813.2	5980.9	6437.3	4792.8
62.5°	567.4	576.8	617.5	706.6	866.0	1156.8	1819.6	2346.4	3049.8	3461.0	2726.3
65°	481.5	486.2	529.9	589.3	690.9	814.4	936.4	980.1	1186.5	1217.7	969.2
67.5°	401.7	406.4	453.3	509.6	575.3	608.1	639.4	636.2	659.7	650.3	648.7
70°	309.5	314.2	362.7	422.1	454.9	436.1	533.1	554.9	564.3	572.1	584.6
72.5°	223.5	232.9	270.4	312.6	295.4	339.2	439.3	472.1	484.6	489.3	504.9
75°	162.6	165.7	175.1	162.6	187.6	236.0	309.5	350.2	365.8	370.5	393.9
77.5°	71.9	73.5	75.0	93.8	120.4	146.9	184.5	217.3	239.2	245.4	251.7
80°	37.5	39.1	48.5	64.1	86.0	107.9	134.4	153.2	167.3	168.8	175.1
82.5°	23.4	25.0	34.4	45.3	61.0	79.7	98.5	114.1	125.1	126.6	128.2
85°	10.9	14.1	20.3	28.1	40.6	51.6	53.1	45.3	48.5	50.0	46.9
87.5°	3.1	4.7	6.3	4.7	6.3	6.3	7.8	9.4	9.4	9.4	10.9
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°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
2.5°	1786.8	1772.7	1718.0	1697.7	1644.5	1653.9	1625.7	1624.2	1617.9	1616.4	1614.8
5°	1830.5	1786.8	1721.1	1671.1	1641.4	1638.3	1617.9	1617.9	1624.2	1628.9	1617.9
7.5°	1902.4	1852.4	1741.4	1694.5	1668.0	1663.3	1649.2	1638.3	1652.3	1647.6	1635.1
10°	1985.3	1897.7	1780.5	1739.9	1696.1	1685.2	1685.2	1689.8	1666.4	1674.2	1661.7
12.5°	2077.5	1960.3	1830.5	1783.6	1732.0	1725.8	1722.7	1688.3	1700.8	1694.5	1663.3
15°	2194.8	2032.2	1894.6	1814.9	1771.1	1743.0	1702.3	1696.1	1688.3	1672.6	1658.6
17.5°	2321.4	2110.3	1924.3	1824.3	1758.6	1738.3	1707.0	1674.2	1650.8	1653.9	1642.9
20°	2429.2	2182.3	1935.3	1833.7	1749.2	1710.2	1661.7	1641.4	1616.4	1614.8	1613.2
22.5°	2557.4	2279.2	1950.9	1808.6	1721.1	1680.5	1647.6	1611.7	1594.5	1572.6	1583.5
25°	2710.6	2316.7	1954.0	1794.6	1700.8	1628.9	1611.7	1572.6	1566.3	1535.1	1541.3
27.5°	2821.6	2337.0	1929.0	1750.8	1653.9	1599.2	1567.9	1539.8	1528.8	1505.4	1499.1
30°	2970.1	2368.3	1875.9	1696.1	1607.0	1546.0	1527.3	1521.0	1489.7	1464.7	1461.6
32.5°	3138.9	2388.6	1841.5	1639.8	1558.5	1511.6	1521.0	1491.3	1452.2	1430.3	1424.1
35°	3273.4	2396.4	1755.5	1575.7	1525.7	1496.0	1485.1	1478.8	1422.5	1402.2	1386.6
37.5°	3478.2	2379.2	1683.6	1530.4	1489.7	1478.8	1469.4	1427.2	1363.1	1333.4	1311.5
40°	3717.3	2374.5	1591.4	1466.3	1455.4	1467.9	1439.7	1374.1	1285.0	1252.1	1236.5
42.5°	3947.1	2407.4	1533.5	1431.9	1417.8	1422.5	1383.4	1285.0	1241.2	1222.4	1197.4
45°	4331.7	2476.1	1438.2	1378.8	1372.5	1369.4	1322.5	1219.3	1194.3	1170.9	1166.2
47.5°	4678.7	2430.8	1377.2	1324.0	1330.3	1313.1	1213.1	1180.2	1152.1	1128.6	1120.8
50°	4699.0	2322.9	1291.2	1281.8	1283.4	1253.7	1158.3	1136.5	1100.5	1084.9	1073.9
52.5°	4592.7	2146.3	1211.5	1214.6	1219.3	1170.9	1091.1	1075.5	1045.8	1023.9	1017.7
55°	4294.2	1871.2	1133.3	1145.8	1158.3	1066.1	1041.1	1002.0	978.6	947.3	948.9
57.5°	3783.0	1506.9	1023.9	1044.2	1070.8	969.2	950.4	902.0	867.6	842.6	839.4
60°	2535.5	1072.4	859.8	867.6	927.0	886.3	884.8	836.3	789.4	767.5	755.0
62.5°	1496.0	819.1	742.5	734.7	733.1	756.6	795.7	778.5	717.5	675.3	687.8
65°	783.2	708.1	690.9	664.4	648.7	642.5	672.2	680.0	639.4	594.0	590.9
67.5°	658.1	658.1	644.0	634.7	612.8	586.2	567.4	542.4	536.2	523.7	508.0
70°	598.7	614.3	609.7	587.8	569.0	539.3	490.9	450.2	411.1	397.1	406.4
72.5°	522.1	537.7	537.7	526.8	501.8	456.5	409.6	362.7	329.8	304.8	301.7
75°	401.7	409.6	428.3	415.8	383.0	354.9	306.4	257.9	226.7	203.2	198.5
77.5°	256.4	268.9	268.9	267.3	243.9	217.3	186.0	151.6	128.2	111.0	106.3
80°	170.4	178.2	184.5	178.2	162.6	142.3	118.8	95.4	78.2	64.1	61.0
82.5°	125.1	134.4	139.1	132.9	117.2	101.6	84.4	67.2	50.0	39.1	36.0
85°	48.5	50.0	56.3	67.2	65.7	64.1	51.6	37.5	28.1	20.3	18.8
87.5°	12.5	10.9	12.5	12.5	10.9	9.4	9.4	9.4	9.4	4.7	6.3
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)