

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: P455921

Luminaire Tested: **GALN-SA7A-827-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23549 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

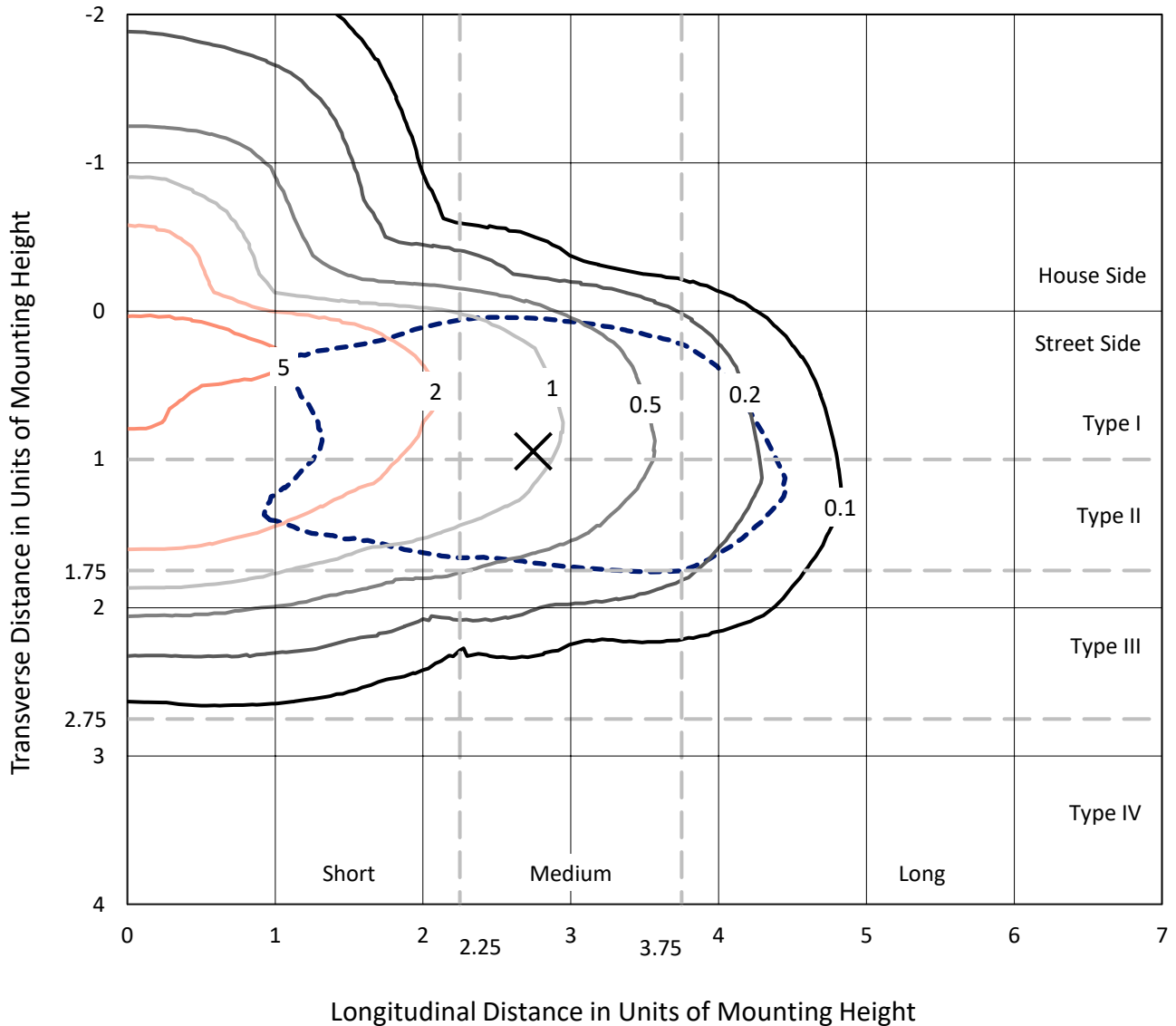
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

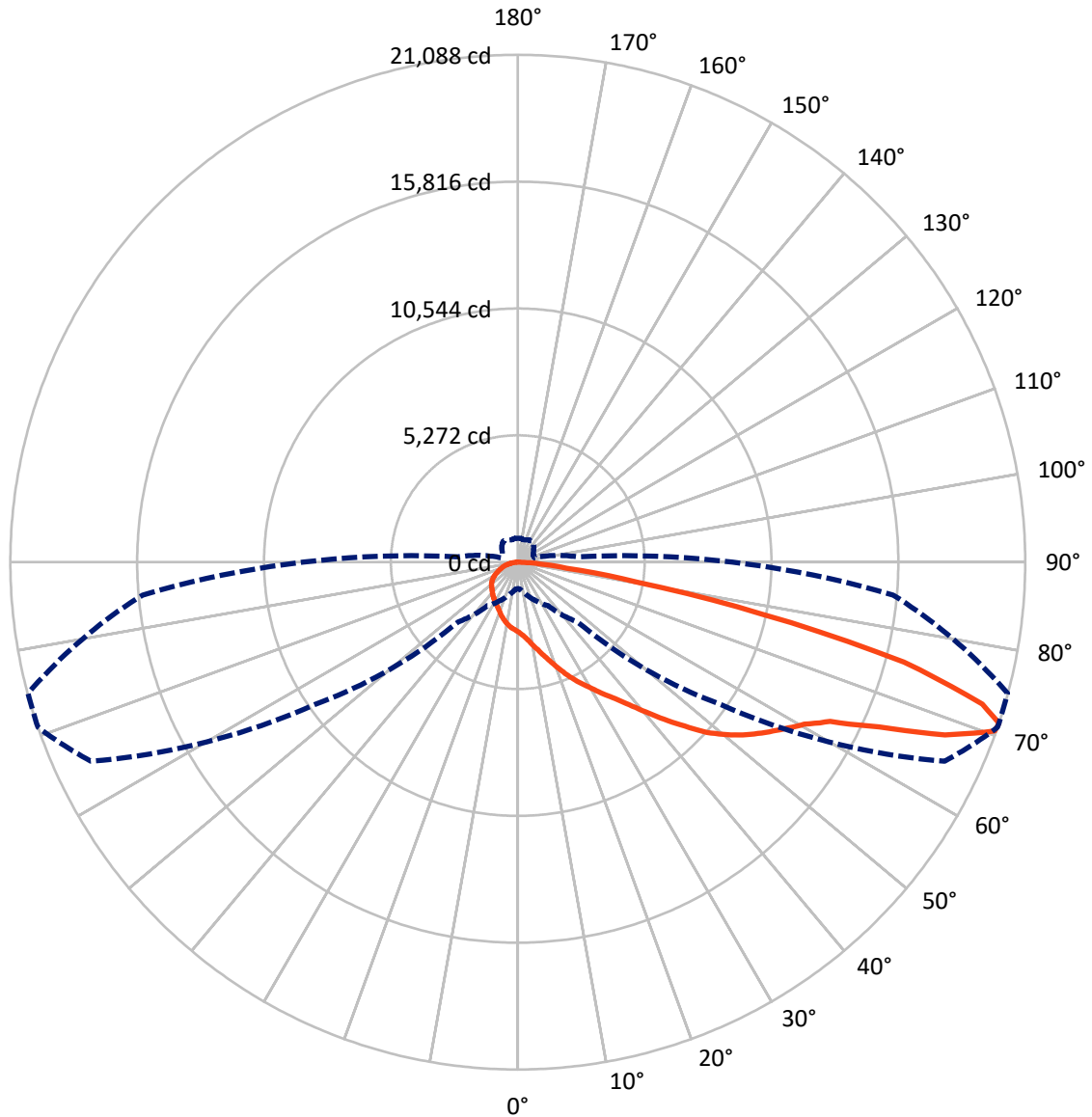
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4235.2	0.0	4235.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	19313.8	0.0	19313.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	23549.0	0.0	23549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.2	1.2
10°-20°	942.8	4.0
20°-30°	1647.6	7.0
30°-40°	2450.7	10.4
40°-50°	3610.7	15.3
50°-60°	5055.1	21.5
60°-70°	5653.9	24.0
70°-80°	3453.7	14.7
80°-90°	444.3	1.9
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°	23549.0	100.0
0°-180°	23549.0	100.0

**Coefficient of Utilization**



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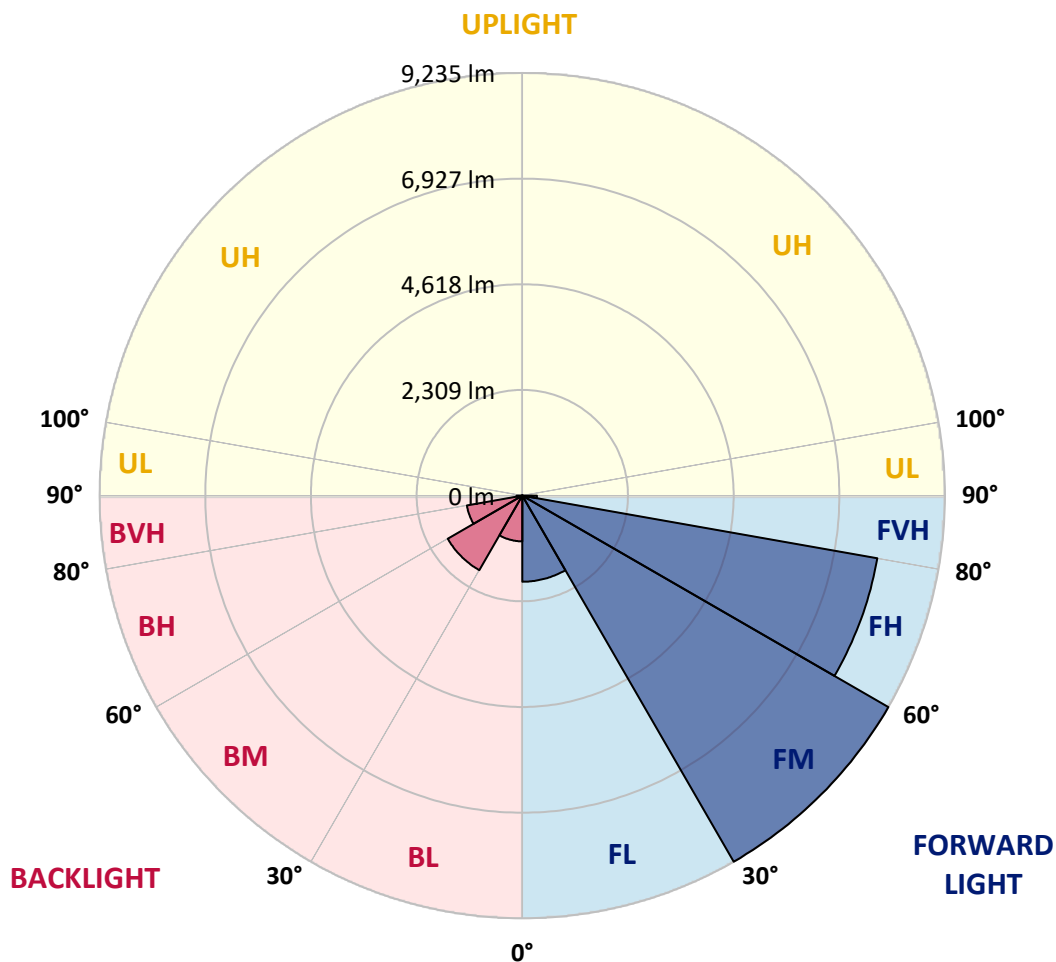
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1881.6	8.0			
FM	(30°-60°)	9235.5	39.2			
FH	(60°-80°)	7877.1	33.4			G4/12000
FVH	(80°-90°)	319.7	1.4			G3/500
BL	(0°-30°)	999.1	4.2	B2/1000		
BM	(30°-60°)	1881.0	8.0	B2/2500		
BH	(60°-80°)	1230.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	124.6	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2
2.5°	3208.6	3193.0	3194.3	3172.3	3143.9	3112.8	3068.8	3030.0	2998.9	2980.8	2927.7
5°	3555.4	3539.9	3520.5	3472.6	3451.9	3375.5	3278.5	3190.5	3123.1	3085.6	2979.5
7.5°	3836.3	3832.4	3827.2	3800.1	3747.0	3640.9	3558.0	3405.3	3305.6	3234.5	3053.3
10°	4009.7	4016.2	4020.1	4025.3	4003.3	3947.6	3833.7	3640.9	3514.0	3423.4	3149.0
12.5°	4097.8	4104.2	4126.2	4174.1	4203.9	4197.4	4104.2	3915.3	3740.5	3621.5	3251.3
15°	4152.1	4162.5	4201.3	4264.7	4364.4	4427.8	4382.5	4207.8	4016.2	3875.1	3372.9
17.5°	4211.7	4223.3	4266.0	4356.6	4487.3	4624.5	4673.7	4523.6	4315.2	4146.9	3508.9
20°	4245.3	4260.8	4321.7	4440.7	4593.5	4792.8	4955.9	4876.9	4649.1	4462.8	3665.5
22.5°	4299.7	4312.6	4364.4	4491.2	4673.7	4923.5	5238.0	5221.2	5020.6	4779.9	3837.6
25°	4447.2	4467.9	4493.8	4570.2	4746.2	5056.8	5472.3	5588.8	5380.4	5111.2	3995.5
27.5°	4725.5	4742.3	4741.0	4751.4	4851.0	5172.0	5675.5	5952.5	5737.6	5446.4	4148.2
30°	5042.6	5049.1	5054.2	5030.9	5053.0	5289.8	5861.9	6312.3	6097.5	5790.7	4281.5
32.5°	5428.3	5441.2	5397.2	5337.7	5319.6	5464.5	6015.9	6672.1	6523.3	6140.2	4413.6
35°	5883.9	5917.5	5828.2	5723.4	5649.6	5715.6	6223.0	7039.7	6959.5	6586.7	4588.3
37.5°	6404.2	6445.6	6362.8	6157.0	6052.2	6070.3	6493.5	7494.0	7510.8	7095.4	4848.5
40°	6830.0	6884.4	6887.0	6595.8	6436.6	6457.3	6836.5	7983.3	8176.1	7724.4	5155.2
42.5°	7110.9	7164.0	7219.6	7048.8	6881.8	6999.6	7236.4	8513.9	8924.2	8488.0	5583.6
45°	7418.9	7466.8	7497.9	7420.2	7327.0	7632.5	7719.2	9078.2	9721.5	9341.0	6052.2
47.5°	7776.2	7829.2	7859.0	7785.2	7750.3	8187.8	8239.5	9605.0	10573.1	10169.3	6569.9
50°	8252.5	8292.6	8277.1	8230.5	8222.7	8613.6	8739.1	10098.1	11276.0	11061.1	7107.0
52.5°	8845.3	8893.1	8910.0	8844.0	8814.2	8917.7	9141.7	10547.3	11915.3	11827.3	7680.4
55°	9203.8	9280.1	9536.4	9640.0	9711.1	9311.2	9575.2	11043.0	12488.7	12635.0	8296.5
57.5°	8744.3	8842.7	9416.0	9933.8	10602.9	10294.9	10190.0	11560.7	13062.1	13418.0	9034.2
60°	7623.4	7645.4	8384.5	9338.4	10684.5	11559.4	11472.7	12383.9	13683.4	14207.5	10006.2
62.5°	5288.5	5335.1	6208.8	7730.9	9677.5	12015.0	13654.9	13805.0	14573.8	15389.2	11431.3
65°	2727.1	2666.3	3462.3	4858.8	7296.0	10933.0	15422.9	16418.2	16504.9	17237.5	13437.4
67.5°	1678.7	1705.9	2078.6	2837.1	4313.9	7945.7	15237.8	19611.3	19154.4	19506.4	15299.9
70°	1260.6	1294.3	1550.6	1941.5	2630.0	4543.0	12254.4	20385.2	21023.3	20932.7	15866.8
71°	1096.3	1131.2	1397.8	1766.7	2209.4	3506.3	10324.6	19575.0	21088.1	21072.5	15653.3
72.5°	934.5	956.5	1164.9	1496.2	1862.5	2457.9	7756.7	17555.9	20188.5	20704.9	14890.9
75°	733.9	750.7	843.9	1141.6	1466.4	1509.2	4162.5	13161.8	16581.3	17565.0	12396.8
77.5°	598.0	609.6	657.5	847.8	1131.2	1069.1	2183.5	8567.0	10388.1	11378.2	7302.4
80°	475.0	488.0	516.4	574.7	847.8	762.3	1041.9	4341.1	5018.0	5007.7	2914.8
82.5°	368.9	372.8	406.4	421.9	579.8	541.0	564.3	1837.9	2035.9	2103.2	1052.3
85°	233.0	244.6	359.8	323.6	346.9	317.1	278.3	730.0	899.5	886.6	420.6
87.5°	71.2	75.1	121.7	137.2	154.0	138.5	102.2	214.9	262.7	284.7	104.8
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°	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2
2.5°	2907.0	2892.8	2842.3	2800.9	2762.0	2719.3	2683.1	2672.7	2663.7	2659.8	2658.5
5°	2934.2	2891.5	2791.8	2710.3	2645.6	2586.0	2548.5	2531.7	2514.8	2514.8	2520.0
7.5°	2973.0	2895.4	2741.3	2619.7	2538.1	2482.5	2455.3	2452.7	2456.6	2460.5	2461.8
10°	3015.7	2892.8	2667.6	2516.1	2443.6	2417.8	2419.0	2441.1	2461.8	2477.3	2479.9
12.5°	3057.1	2877.2	2580.8	2419.0	2372.5	2377.6	2413.9	2463.1	2503.2	2525.2	2526.5
15°	3103.7	2852.6	2476.0	2327.2	2311.6	2351.7	2419.0	2494.1	2555.0	2591.2	2595.1
17.5°	3142.6	2811.2	2366.0	2237.8	2257.3	2331.0	2424.2	2521.3	2595.1	2640.4	2648.1
20°	3186.6	2758.2	2252.1	2152.4	2208.1	2307.7	2413.9	2518.7	2595.1	2639.1	2649.4
22.5°	3221.5	2683.1	2143.4	2082.5	2164.1	2279.3	2378.9	2463.1	2525.2	2548.5	2564.0
25°	3235.8	2588.6	2041.1	2025.6	2129.1	2232.7	2300.0	2347.9	2367.3	2364.7	2371.2
27.5°	3228.0	2479.9	1953.1	1980.3	2085.1	2160.2	2193.8	2190.0	2155.0	2122.7	2138.2
30°	3195.6	2350.5	1879.3	1933.7	2028.2	2069.6	2064.4	2013.9	1947.9	1887.1	1891.0
32.5°	3137.4	2210.7	1810.7	1880.6	1947.9	1966.0	1931.1	1865.1	1770.6	1691.7	1680.0
35°	3088.2	2077.4	1749.9	1819.8	1867.7	1858.6	1825.0	1739.5	1654.1	1584.2	1572.6
37.5°	3080.4	1963.5	1691.7	1751.2	1778.4	1765.4	1724.0	1651.5	1620.5	1567.4	1560.9
40°	3121.9	1883.2	1632.1	1678.7	1691.7	1681.3	1636.0	1594.6	1623.1	1610.1	1610.1
42.5°	3234.5	1840.5	1579.0	1606.2	1616.6	1624.3	1592.0	1557.0	1592.0	1532.5	1513.0
45°	3413.1	1841.8	1531.2	1535.0	1566.1	1593.3	1571.3	1519.5	1501.4	1382.3	1359.0
47.5°	3675.8	1885.8	1492.3	1467.7	1523.4	1568.7	1537.6	1462.6	1382.3	1303.4	1289.1
50°	3982.6	1964.7	1457.4	1397.8	1466.4	1537.6	1514.3	1426.3	1343.5	1295.6	1286.5
52.5°	4323.0	2064.4	1414.7	1320.2	1396.6	1523.4	1519.5	1421.1	1307.2	1274.9	1267.1
55°	4743.6	2162.8	1361.6	1229.6	1334.4	1511.7	1505.3	1378.4	1299.5	1276.2	1273.6
57.5°	5232.9	2305.2	1285.2	1137.7	1263.2	1463.9	1449.6	1352.5	1273.6	1256.8	1255.5
60°	6021.1	2526.5	1176.5	1053.6	1190.8	1379.7	1397.8	1308.5	1232.2	1228.3	1227.0
62.5°	7057.8	2837.1	1063.9	966.8	1106.6	1271.0	1322.8	1249.0	1188.2	1207.6	1210.2
65°	8489.3	3098.6	947.4	893.1	1013.4	1166.2	1251.6	1193.3	1139.0	1176.5	1176.5
67.5°	9422.5	3103.7	841.3	816.7	919.0	1078.2	1176.5	1127.3	1075.6	1139.0	1141.6
70°	9228.4	2719.3	753.3	736.5	827.1	983.7	1093.7	1054.9	995.3	1052.3	1031.6
71°	8915.1	2505.8	718.3	705.4	790.8	938.4	1054.9	1022.5	963.0	1000.5	988.8
72.5°	8415.5	2175.7	661.4	664.0	736.5	881.4	1000.5	966.8	907.3	928.0	924.1
75°	7113.5	1900.0	565.6	577.3	632.9	784.3	891.8	865.9	805.1	805.1	801.2
77.5°	4447.2	1328.0	469.8	476.3	537.1	671.7	766.2	744.2	686.0	666.6	661.4
80°	1659.3	686.0	367.6	375.3	412.9	529.4	634.2	613.5	554.0	532.0	511.2
82.5°	627.7	344.3	270.5	264.0	304.2	403.8	497.0	472.4	425.8	372.8	357.2
85°	236.9	170.8	165.7	160.5	178.6	239.4	308.0	302.9	253.7	216.1	212.3
87.5°	62.1	55.7	64.7	47.9	50.5	45.3	46.6	19.4	9.1	3.9	2.6
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)