

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: P458995

Luminaire Tested: **GALN-SA5A-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458995  
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-SA5A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21456 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

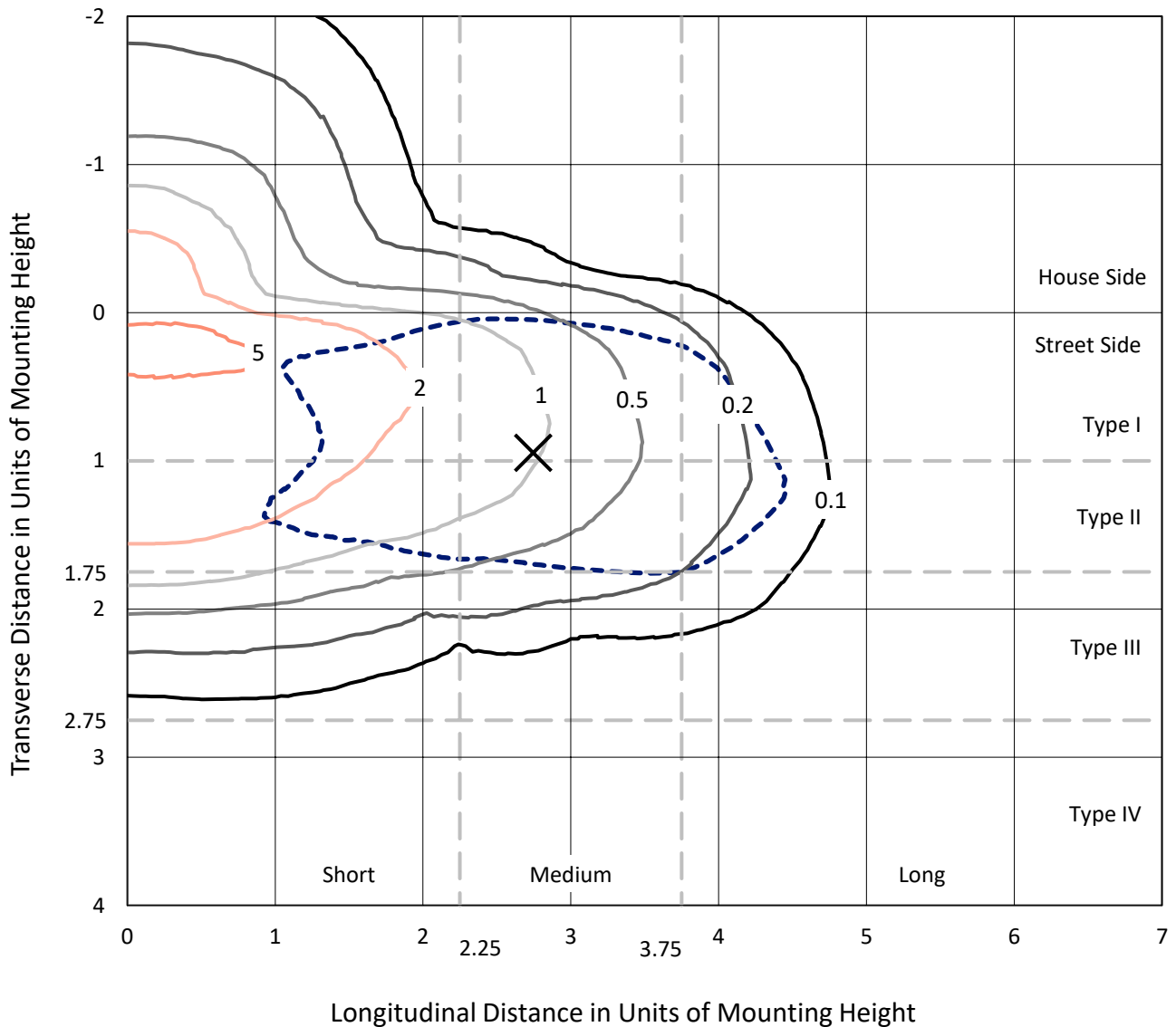
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

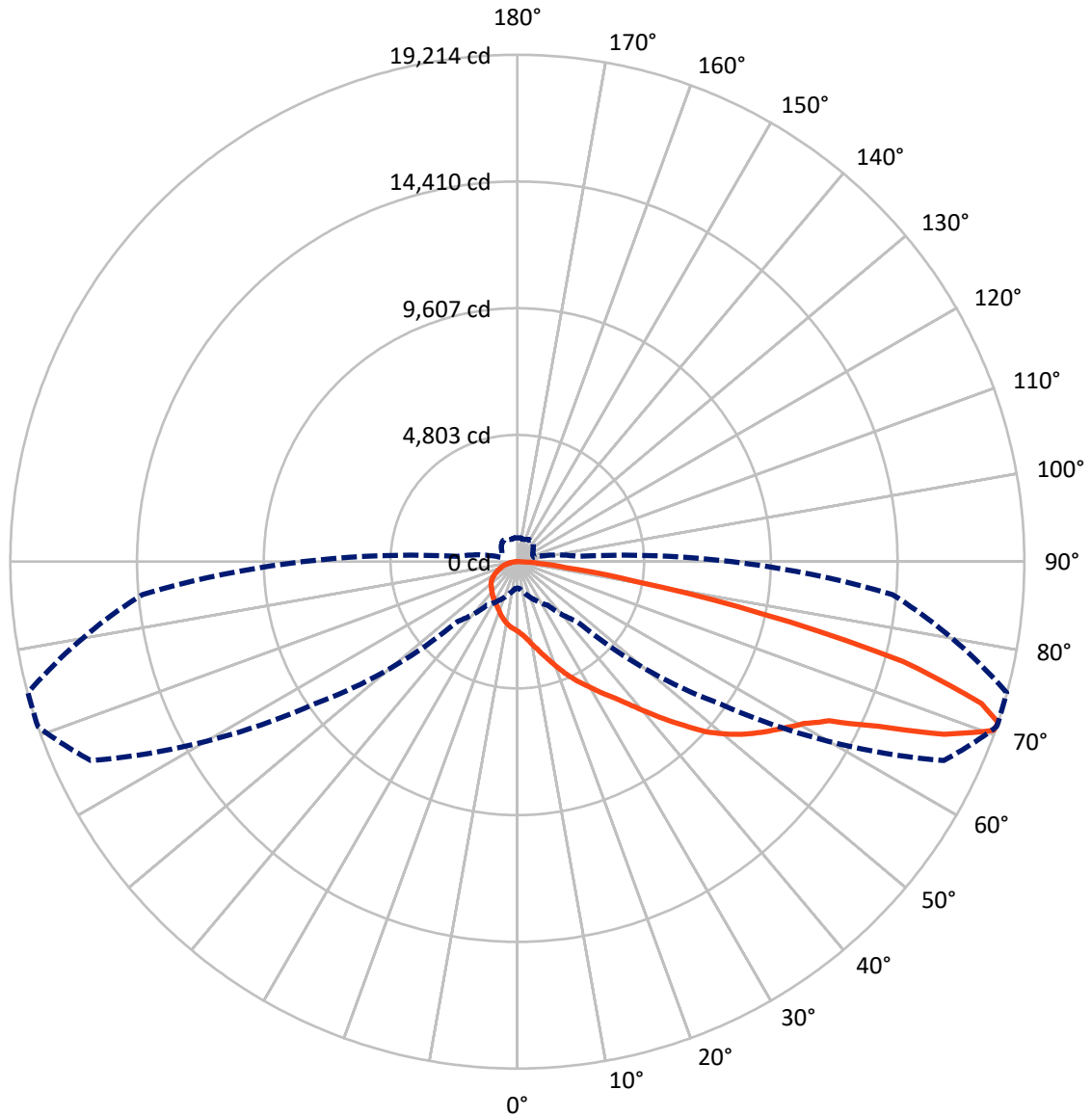
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3858.8	0.0	3858.8
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	17597.2	0.0	17597.2
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	21456.0	0.0	21456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.4	1.2
10°-20°	859.0	4.0
20°-30°	1501.2	7.0
30°-40°	2232.8	10.4
40°-50°	3289.8	15.3
50°-60°	4605.8	21.5
60°-70°	5151.4	24.0
70°-80°	3146.7	14.7
80°-90°	404.8	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°	21456.0	100.0
0°-180°	21456.0	100.0

**Coefficient of Utilization**



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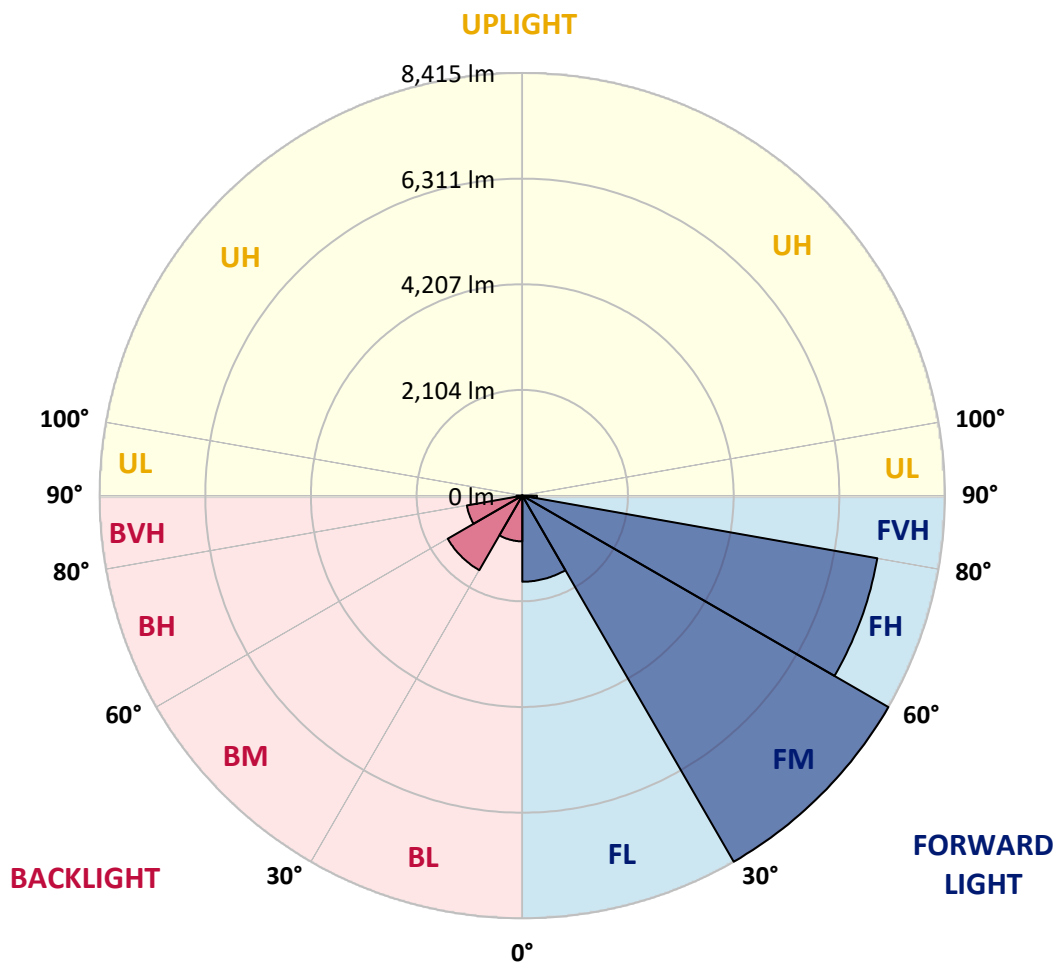
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.3	8.0			
FM (30°-60°)	8414.6	39.2			
FH (60°-80°)	7177.0	33.4			G3/7500
FVH (80°-90°)	291.3	1.4			G3/500
BL (0°-30°)	910.3	4.2	B2/1000		
BM (30°-60°)	1713.8	8.0	B2/2500		
BH (60°-80°)	1121.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	113.5	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3
2.5°	2923.4	2909.2	2910.4	2890.4	2864.4	2836.1	2796.0	2760.7	2732.4	2715.8	2667.5
5°	3239.4	3225.3	3207.6	3164.0	3145.1	3075.5	2987.1	2906.9	2845.6	2811.4	2714.7
7.5°	3495.3	3491.8	3487.1	3462.3	3414.0	3317.3	3241.8	3102.6	3011.8	2947.0	2781.9
10°	3653.4	3659.3	3662.8	3667.5	3647.5	3596.8	3493.0	3317.3	3201.7	3119.2	2869.2
12.5°	3733.6	3739.5	3759.5	3803.1	3830.3	3824.4	3739.5	3567.3	3408.1	3299.6	2962.3
15°	3783.1	3792.5	3827.9	3885.7	3976.5	4034.3	3993.0	3833.8	3659.3	3530.7	3073.2
17.5°	3837.3	3847.9	3886.9	3969.4	4088.5	4213.5	4258.3	4121.5	3931.7	3778.4	3197.0
20°	3868.0	3882.1	3937.6	4046.1	4185.2	4366.8	4515.4	4443.5	4235.9	4066.1	3339.7
22.5°	3917.5	3929.3	3976.5	4092.1	4258.3	4485.9	4772.5	4757.2	4574.4	4355.0	3496.5
25°	4052.0	4070.8	4094.4	4164.0	4324.4	4607.4	4985.9	5092.1	4902.2	4656.9	3640.4
27.5°	4305.5	4320.8	4319.7	4329.1	4419.9	4712.3	5171.1	5423.4	5227.7	4962.4	3779.5
30°	4594.4	4600.3	4605.0	4583.8	4603.9	4819.7	5340.9	5751.3	5555.5	5276.0	3901.0
32.5°	4945.8	4957.6	4917.5	4863.3	4846.8	4978.9	5481.2	6079.1	5943.5	5594.4	4021.3
35°	5360.9	5391.6	5310.2	5214.7	5147.5	5207.6	5669.9	6414.0	6340.9	6001.3	4180.5
37.5°	5835.0	5872.7	5797.3	5609.8	5514.2	5530.8	5916.4	6827.9	6843.3	6464.7	4417.5
40°	6223.0	6272.5	6274.9	6009.5	5864.5	5883.4	6228.9	7273.7	7449.4	7037.9	4697.0
42.5°	6478.9	6527.2	6577.9	6422.3	6270.2	6377.5	6593.3	7757.2	8131.0	7733.6	5087.4
45°	6759.6	6803.2	6831.5	6760.7	6675.8	6954.1	7033.1	8271.4	8857.5	8510.8	5514.2
47.5°	7085.0	7133.4	7160.5	7093.3	7061.4	7460.0	7507.2	8751.3	9633.4	9265.5	5986.0
50°	7519.0	7555.6	7541.4	7499.0	7491.9	7848.0	7962.4	9200.6	10273.8	10078.0	6475.3
52.5°	8059.1	8102.7	8118.1	8057.9	8030.8	8125.1	8329.2	9609.8	10856.3	10776.1	6997.8
55°	8385.8	8455.3	8688.8	8783.2	8848.0	8483.6	8724.2	10061.5	11378.7	11512.0	7559.1
57.5°	7967.1	8056.7	8579.2	9050.9	9660.5	9379.9	9284.4	10533.2	11901.2	12225.4	8231.3
60°	6945.9	6965.9	7639.3	8508.4	9734.8	10532.0	10453.0	11283.2	12467.2	12944.8	9116.9
62.5°	4818.5	4860.9	5656.9	7043.8	8817.4	10947.1	12441.3	12578.1	13278.5	14021.5	10415.3
65°	2484.7	2429.3	3154.5	4427.0	6647.5	9961.3	14052.1	14959.0	15038.0	15705.5	12243.1
67.5°	1529.5	1554.3	1893.9	2585.0	3930.5	7239.5	13883.5	17868.2	17452.0	17772.7	13940.1
70°	1148.6	1179.3	1412.8	1768.9	2396.3	4139.2	11165.3	18573.4	19154.8	19072.3	14456.6
71°	998.8	1030.7	1273.6	1609.7	2013.0	3194.6	9407.0	17835.2	19213.8	19199.6	14262.0
72.5°	851.4	871.5	1061.3	1363.2	1697.0	2239.4	7067.3	15995.6	18394.2	18864.7	13567.5
75°	668.6	684.0	768.9	1040.1	1336.1	1375.0	3792.5	11992.0	15107.6	16003.8	11295.0
77.5°	544.8	555.4	599.1	772.4	1030.7	974.1	1989.4	7805.6	9464.8	10366.9	6653.4
80°	432.8	444.6	470.5	523.6	772.4	694.6	949.3	3955.3	4572.0	4562.6	2655.7
82.5°	336.1	339.6	370.3	384.4	528.3	492.9	514.2	1674.6	1855.0	1916.3	958.7
85°	212.3	222.9	327.8	294.8	316.0	288.9	253.5	665.1	819.6	807.8	383.3
87.5°	64.9	68.4	110.9	125.0	140.3	126.2	93.2	195.8	239.4	259.4	95.5
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°	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3	2633.3
2.5°	2648.6	2635.7	2589.7	2551.9	2516.6	2477.6	2444.6	2435.2	2426.9	2423.4	2422.2
5°	2673.4	2634.5	2543.7	2469.4	2410.4	2356.2	2322.0	2306.6	2291.3	2291.3	2296.0
7.5°	2708.8	2638.0	2497.7	2386.8	2312.5	2261.8	2237.1	2234.7	2238.2	2241.8	2243.0
10°	2747.7	2635.7	2430.5	2292.5	2226.5	2202.9	2204.0	2224.1	2243.0	2257.1	2259.5
12.5°	2785.4	2621.5	2351.5	2204.0	2161.6	2166.3	2199.3	2244.1	2280.7	2300.7	2301.9
15°	2827.9	2599.1	2255.9	2120.3	2106.2	2142.7	2204.0	2272.4	2327.9	2360.9	2364.4
17.5°	2863.3	2561.4	2155.7	2039.0	2056.6	2123.9	2208.8	2297.2	2364.4	2405.7	2412.8
20°	2903.4	2513.0	2051.9	1961.1	2011.8	2102.6	2199.3	2294.9	2364.4	2404.5	2414.0
22.5°	2935.2	2444.6	1952.9	1897.4	1971.7	2076.7	2167.5	2244.1	2300.7	2322.0	2336.1
25°	2948.2	2358.5	1859.7	1845.6	1939.9	2034.2	2095.6	2139.2	2156.9	2154.5	2160.4
27.5°	2941.1	2259.5	1779.5	1804.3	1899.8	1968.2	1998.9	1995.3	1963.5	1934.0	1948.1
30°	2911.6	2141.5	1712.3	1761.8	1847.9	1885.6	1880.9	1834.9	1774.8	1719.4	1722.9
32.5°	2858.5	2014.2	1649.8	1713.5	1774.8	1791.3	1759.5	1699.3	1613.2	1541.3	1530.7
35°	2813.7	1892.7	1594.4	1658.0	1701.7	1693.4	1662.8	1584.9	1507.1	1443.4	1432.8
37.5°	2806.7	1788.9	1541.3	1595.5	1620.3	1608.5	1570.8	1504.7	1476.4	1428.1	1422.2
40°	2844.4	1715.8	1487.1	1529.5	1541.3	1531.9	1490.6	1452.9	1478.8	1467.0	1467.0
42.5°	2947.0	1676.9	1438.7	1463.5	1472.9	1480.0	1450.5	1418.7	1450.5	1396.3	1378.6
45°	3109.7	1678.1	1395.1	1398.6	1426.9	1451.7	1431.6	1384.5	1367.9	1259.5	1238.2
47.5°	3349.1	1718.2	1359.7	1337.3	1388.0	1429.3	1401.0	1332.6	1259.5	1187.5	1174.5
50°	3628.6	1790.1	1327.9	1273.6	1336.1	1401.0	1379.7	1299.6	1224.1	1180.4	1172.2
52.5°	3938.7	1880.9	1288.9	1202.9	1272.4	1388.0	1384.5	1294.8	1191.1	1161.6	1154.5
55°	4322.0	1970.6	1240.6	1120.3	1215.8	1377.4	1371.5	1255.9	1184.0	1162.8	1160.4
57.5°	4767.8	2100.3	1171.0	1036.6	1151.0	1333.7	1320.8	1232.3	1160.4	1145.1	1143.9
60°	5485.9	2301.9	1072.0	959.9	1084.9	1257.1	1273.6	1192.2	1122.7	1119.1	1117.9
62.5°	6430.5	2585.0	969.4	880.9	1008.3	1158.0	1205.2	1138.0	1082.6	1100.3	1102.6
65°	7734.8	2823.2	863.2	813.7	923.4	1062.5	1140.4	1087.3	1037.8	1072.0	1072.0
67.5°	8585.1	2827.9	766.5	744.1	837.3	982.3	1072.0	1027.1	980.0	1037.8	1040.1
70°	8408.2	2477.6	686.3	671.0	753.6	896.2	996.5	961.1	906.9	958.7	939.9
71°	8122.8	2283.1	654.5	642.7	720.5	855.0	961.1	931.6	877.4	911.6	901.0
72.5°	7667.6	1982.3	602.6	605.0	671.0	803.1	911.6	880.9	826.7	845.5	842.0
75°	6481.2	1731.2	515.3	526.0	576.7	714.6	812.5	788.9	733.5	733.5	730.0
77.5°	4052.0	1209.9	428.1	434.0	489.4	612.0	698.1	678.1	625.0	607.3	602.6
80°	1511.8	625.0	334.9	342.0	376.2	482.3	577.8	559.0	504.7	484.7	465.8
82.5°	571.9	313.7	246.5	240.6	277.1	367.9	452.8	430.4	388.0	339.6	325.5
85°	215.8	155.7	150.9	146.2	162.7	218.2	280.7	275.9	231.1	196.9	193.4
87.5°	56.6	50.7	59.0	43.6	46.0	41.3	42.5	17.7	8.3	3.5	2.4
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)