

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: P647955

Luminaire Tested: **GALN-SA5A-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647955  
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-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 18034.1 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

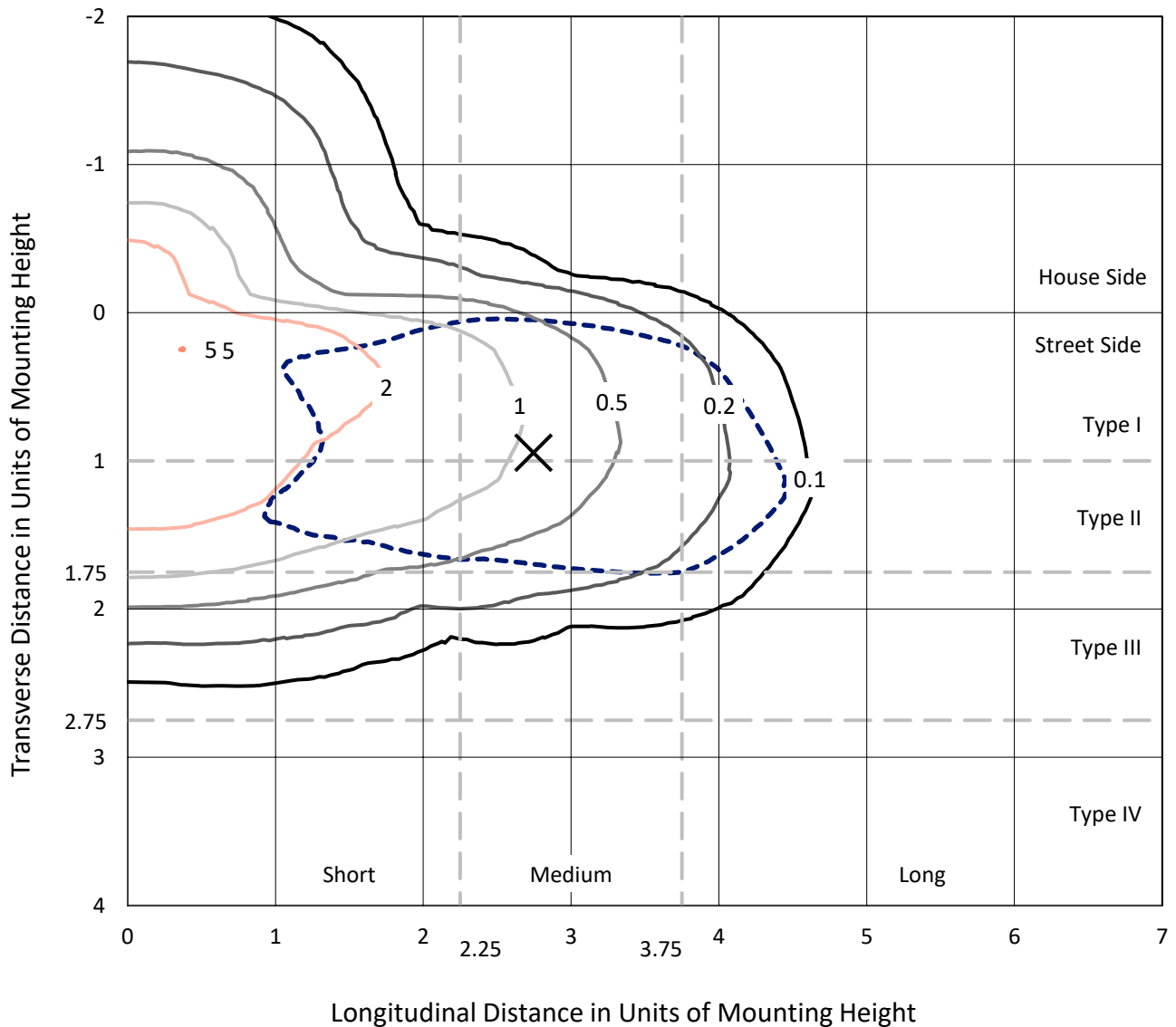
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

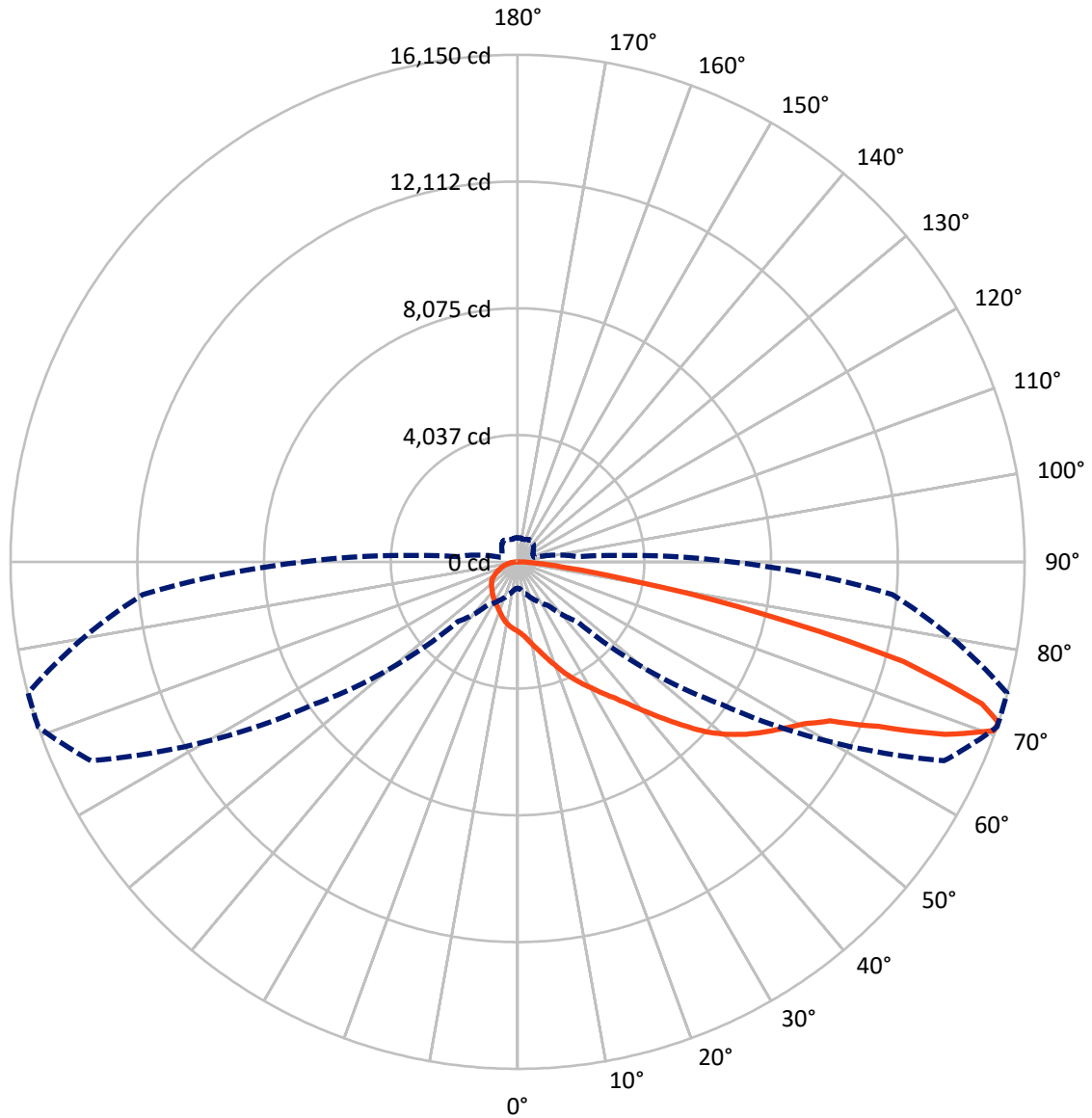
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	3243.4	0.0	3243.4
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	14790.7	0.0	14790.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	18034.1	0.0	18034.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	1.2
10°-20°	722.0	4.0
20°-30°	1261.8	7.0
30°-40°	1876.7	10.4
40°-50°	2765.1	15.3
50°-60°	3871.2	21.5
60°-70°	4329.8	24.0
70°-80°	2644.8	14.7
80°-90°	340.2	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°	18034.1	100.0
0°-180°	18034.1	100.0

**Coefficient of Utilization**

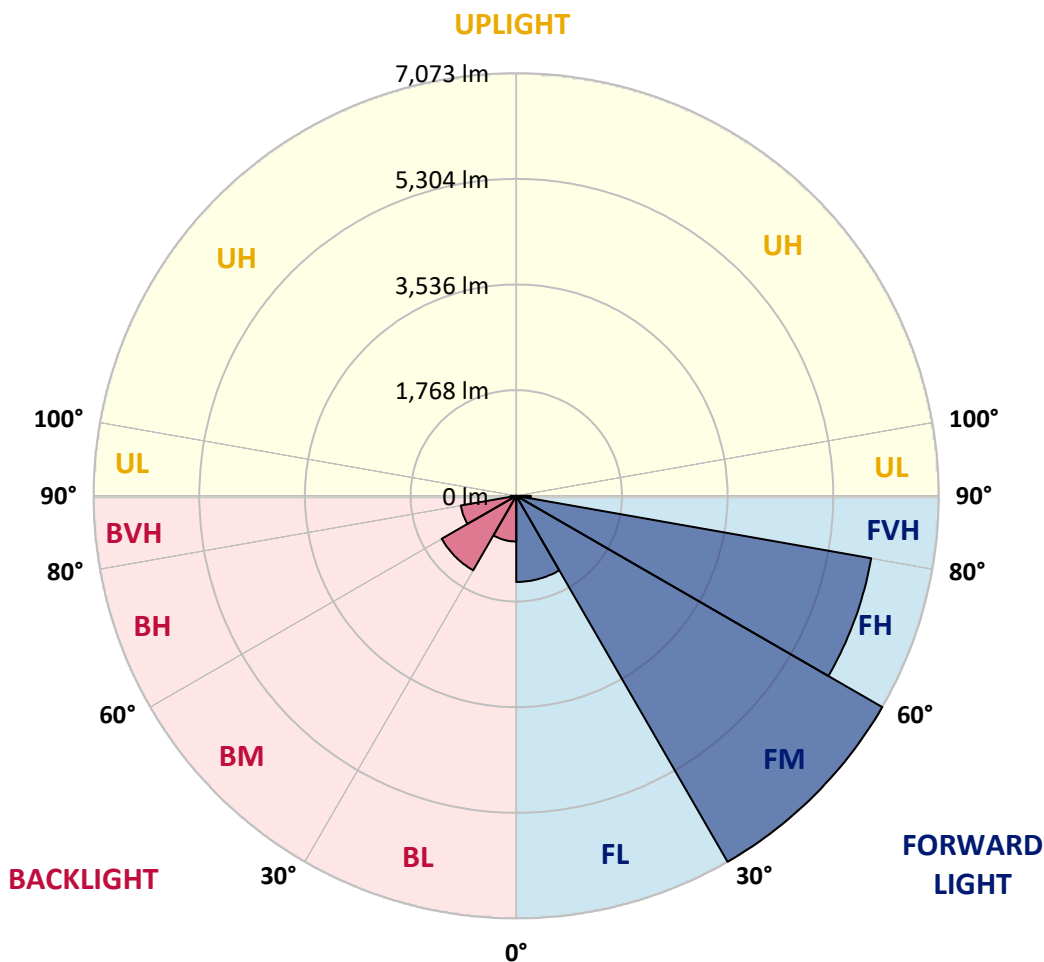


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.9	8.0			
FM (30°-60°)	7072.6	39.2			
FH (60°-80°)	6032.3	33.4			G3/7500
FVH (80°-90°)	244.8	1.4			G3/500
BL (0°-30°)	765.1	4.2	B2/1000		
BM (30°-60°)	1440.5	8.0	B2/2500		
BH (60°-80°)	942.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	95.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2457.1	2445.2	2446.2	2429.4	2407.6	2383.8	2350.1	2320.3	2296.6	2282.7	2242.0
5°	2722.8	2710.9	2696.0	2659.4	2643.5	2585.0	2510.7	2443.3	2391.8	2363.0	2281.7
7.5°	2937.9	2934.9	2930.9	2910.1	2869.5	2788.2	2724.8	2607.8	2531.5	2476.9	2338.2
10°	3070.7	3075.6	3078.6	3082.6	3065.8	3023.2	2935.9	2788.2	2691.1	2621.7	2411.6
12.5°	3138.1	3143.0	3159.9	3196.6	3219.4	3214.4	3143.0	2998.3	2864.5	2773.3	2489.9
15°	3179.8	3187.7	3217.4	3266.0	3342.3	3390.9	3356.2	3222.4	3075.6	2967.6	2583.0
17.5°	3225.3	3234.3	3267.0	3336.4	3436.4	3541.5	3579.2	3464.2	3304.7	3175.8	2687.1
20°	3251.1	3263.0	3309.6	3400.8	3517.7	3670.4	3795.3	3734.8	3560.4	3417.6	2807.1
22.5°	3292.7	3302.6	3342.3	3439.4	3579.2	3770.5	4011.3	3998.5	3844.8	3660.4	2938.9
25°	3405.7	3421.6	3441.4	3499.9	3634.7	3872.6	4190.8	4280.0	4120.4	3914.2	3059.8
27.5°	3618.9	3631.7	3630.7	3638.7	3714.9	3960.8	4346.4	4558.5	4394.0	4170.9	3176.8
30°	3861.7	3866.6	3870.6	3852.8	3869.6	4051.0	4489.1	4834.0	4669.5	4434.6	3278.9
32.5°	4157.0	4167.0	4133.2	4087.7	4073.8	4184.8	4607.0	5109.5	4995.6	4702.2	3380.0
35°	4505.9	4531.7	4463.3	4383.0	4326.5	4377.1	4765.7	5391.1	5329.6	5044.2	3513.8
37.5°	4904.4	4936.1	4872.7	4715.1	4634.8	4648.7	4972.8	5739.0	5751.8	5433.7	3713.0
40°	5230.5	5272.1	5274.1	5051.1	4929.2	4945.0	5235.5	6113.7	6261.3	5915.4	3947.9
42.5°	5445.6	5486.2	5528.8	5398.0	5270.1	5360.3	5541.8	6520.0	6834.3	6500.2	4276.0
45°	5681.5	5718.2	5742.0	5682.5	5611.1	5845.0	5911.4	6952.2	7444.8	7153.4	4634.8
47.5°	5955.0	5995.7	6018.5	5962.0	5935.2	6270.3	6309.9	7355.6	8097.0	7787.8	5031.2
50°	6319.8	6350.5	6338.6	6303.0	6297.0	6596.4	6692.5	7733.2	8635.2	8470.7	5442.6
52.5°	6773.8	6810.5	6823.4	6772.8	6750.0	6829.3	7000.8	8077.2	9124.8	9057.5	5881.7
55°	7048.3	7106.8	7303.0	7382.4	7436.9	7130.6	7332.8	8456.8	9564.0	9676.0	6353.5
57.5°	6696.5	6771.8	7210.9	7607.4	8119.8	7883.9	7803.6	8853.3	10003.1	10275.6	6918.5
60°	5838.1	5855.0	6420.9	7151.5	8182.3	8852.3	8785.9	9483.7	10478.8	10880.3	7662.9
62.5°	4050.0	4085.7	4754.8	5920.3	7411.1	9201.2	10457.0	10572.0	11160.8	11785.2	8754.2
65°	2088.4	2041.8	2651.4	3720.9	5587.3	8372.5	11811.0	12573.3	12639.7	13200.7	10290.5
67.5°	1285.6	1306.4	1591.8	2172.7	3303.6	6084.9	11669.3	15018.5	14668.6	14938.2	11716.8
70°	965.4	991.2	1187.4	1486.8	2014.1	3479.1	9384.6	15611.2	16099.9	16030.5	12151.0
71°	839.5	866.3	1070.5	1352.9	1692.0	2685.1	7906.7	14990.8	16149.5	16137.6	11987.4
72.5°	715.7	732.5	892.1	1145.8	1426.3	1882.3	5940.2	13444.5	15460.6	15856.1	11403.6
75°	562.0	574.9	646.3	874.2	1123.0	1155.7	3187.7	10079.4	12698.1	13451.4	9493.6
77.5°	457.9	466.8	503.5	649.3	866.3	818.7	1672.1	6560.7	7955.3	8713.5	5592.3
80°	363.8	373.6	395.5	440.1	649.3	583.8	797.9	3324.5	3842.8	3834.9	2232.2
82.5°	282.5	285.5	311.2	323.1	444.0	414.3	432.1	1407.5	1559.1	1610.7	805.9
85°	178.4	187.4	275.5	247.8	265.7	242.8	213.1	559.1	688.9	678.9	322.1
87.5°	54.5	57.5	93.2	105.1	117.9	106.0	78.3	164.5	201.2	218.1	80.3
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°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2226.2	2215.3	2176.7	2145.0	2115.2	2082.5	2054.7	2046.8	2039.9	2036.9	2035.9
5°	2247.1	2214.3	2138.0	2075.6	2026.0	1980.4	1951.6	1938.8	1925.9	1925.9	1929.9
7.5°	2276.7	2217.3	2099.3	2006.2	1943.7	1901.1	1880.3	1878.3	1881.3	1884.2	1885.2
10°	2309.5	2215.3	2042.8	1926.9	1871.4	1851.6	1852.5	1869.4	1885.2	1897.1	1899.1
12.5°	2341.2	2203.4	1976.4	1852.5	1816.9	1820.8	1848.6	1886.2	1916.9	1933.8	1934.8
15°	2376.9	2184.6	1896.1	1782.2	1770.3	1801.0	1852.5	1910.1	1956.6	1984.4	1987.3
17.5°	2406.6	2152.9	1811.9	1713.8	1728.6	1785.2	1856.5	1930.8	1987.3	2022.0	2028.0
20°	2440.3	2112.2	1724.6	1648.4	1691.0	1767.3	1848.6	1928.8	1987.3	2021.0	2029.0
22.5°	2467.1	2054.7	1641.4	1594.8	1657.3	1745.5	1821.8	1886.2	1933.8	1951.6	1963.5
25°	2478.0	1982.4	1563.1	1551.2	1630.5	1709.8	1761.4	1798.0	1812.9	1810.9	1815.9
27.5°	2472.0	1899.1	1495.7	1516.5	1596.8	1654.3	1680.1	1677.1	1650.3	1625.6	1637.4
30°	2447.3	1800.0	1439.2	1480.8	1553.2	1584.9	1581.0	1542.3	1491.8	1445.2	1448.2
32.5°	2402.6	1692.9	1386.7	1440.2	1491.8	1505.6	1478.9	1428.3	1355.9	1295.5	1286.5
35°	2365.0	1590.8	1340.1	1393.6	1430.3	1423.3	1397.6	1332.2	1266.7	1213.2	1204.3
37.5°	2359.0	1503.6	1295.5	1341.0	1361.9	1352.0	1320.3	1264.8	1241.0	1200.3	1195.4
40°	2390.7	1442.2	1249.9	1285.6	1295.5	1287.6	1252.9	1221.2	1242.9	1233.1	1233.1
42.5°	2476.9	1409.5	1209.3	1230.1	1238.0	1244.0	1219.1	1192.4	1219.1	1173.6	1158.7
45°	2613.7	1410.5	1172.5	1175.5	1199.3	1220.1	1203.3	1163.7	1149.8	1058.6	1040.8
47.5°	2815.0	1444.2	1142.9	1124.0	1166.6	1201.4	1177.6	1120.1	1058.6	998.1	987.2
50°	3049.9	1504.6	1116.1	1070.5	1123.0	1177.6	1159.7	1092.3	1028.9	992.2	985.2
52.5°	3310.6	1581.0	1083.4	1011.0	1069.5	1166.6	1163.7	1088.3	1001.1	976.3	970.4
55°	3632.7	1656.3	1042.7	941.6	1021.9	1157.7	1152.7	1055.6	995.1	977.3	975.3
57.5°	4007.4	1765.3	984.2	871.2	967.4	1121.0	1110.1	1035.8	975.3	962.5	961.4
60°	4611.0	1934.8	901.0	806.8	911.9	1056.6	1070.5	1002.1	943.6	940.6	939.7
62.5°	5405.0	2172.7	814.8	740.4	847.4	973.3	1013.0	956.5	909.9	924.8	926.8
65°	6501.2	2372.9	725.5	684.0	776.1	893.1	958.5	913.8	872.3	901.0	901.0
67.5°	7215.9	2376.9	644.3	625.5	703.8	825.7	901.0	863.3	823.7	872.3	874.2
70°	7067.2	2082.5	576.8	564.0	633.4	753.3	837.6	807.8	762.3	805.9	790.0
71°	6827.3	1919.0	550.1	540.2	605.7	718.6	807.8	783.1	737.4	766.2	757.2
72.5°	6444.7	1666.2	506.5	508.5	564.0	675.0	766.2	740.4	694.8	710.7	707.7
75°	5447.6	1455.0	433.2	442.1	484.7	600.6	682.9	663.1	616.5	616.5	613.6
77.5°	3405.7	1017.0	359.8	364.7	411.3	514.4	586.8	569.9	525.3	510.4	506.5
80°	1270.7	525.3	281.5	287.4	316.2	405.4	485.7	469.8	424.2	407.4	391.5
82.5°	480.8	263.6	207.2	202.2	232.9	309.3	380.6	361.7	326.1	285.5	273.6
85°	181.4	130.8	126.8	122.9	136.8	183.4	235.9	231.9	194.3	165.5	162.6
87.5°	47.6	42.6	49.6	36.6	38.7	34.7	35.7	14.9	7.0	3.0	2.0
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)