

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: P648505

Luminaire Tested: **GALN-SA6B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648505
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-SA6B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26571.1 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

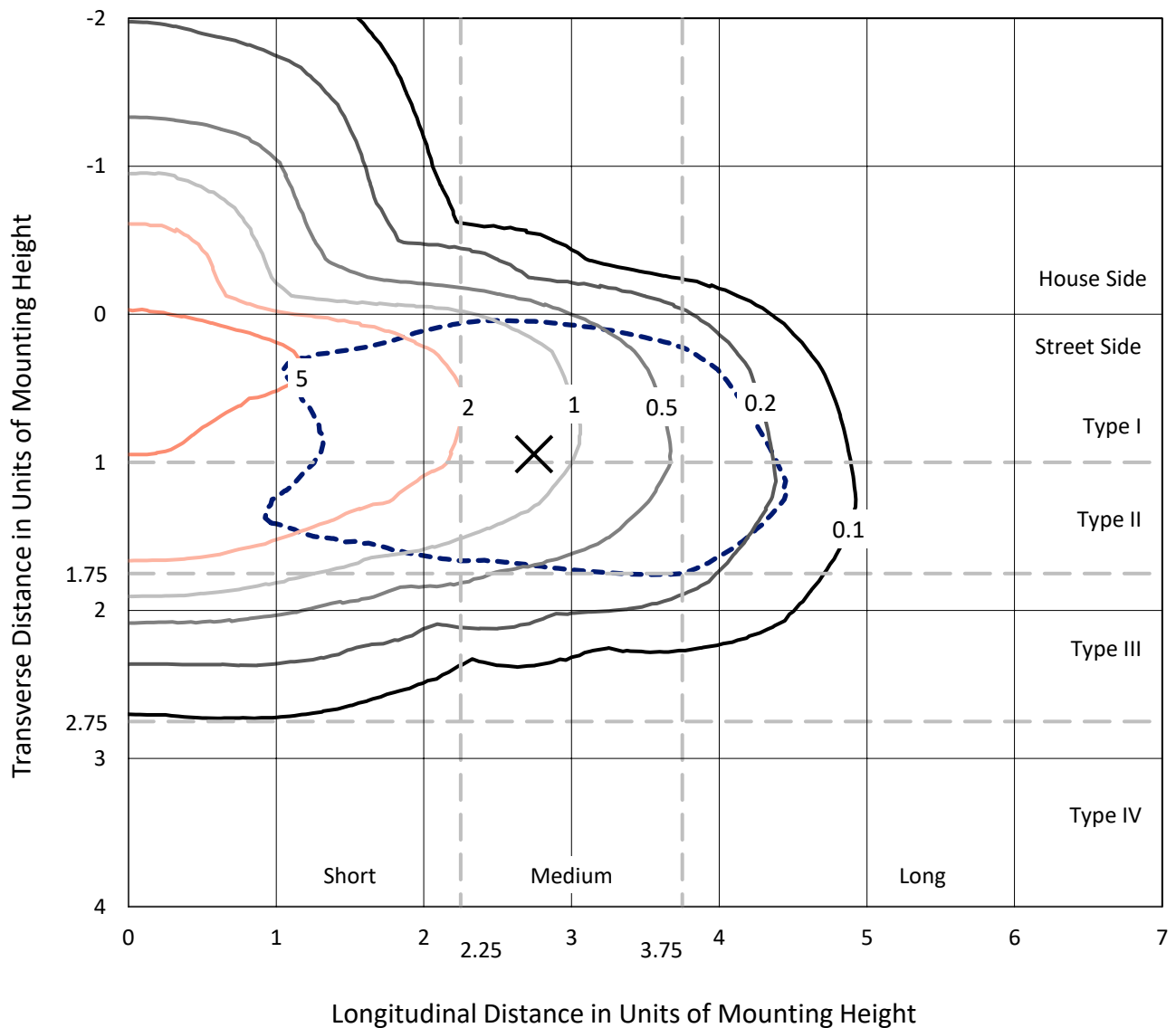
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

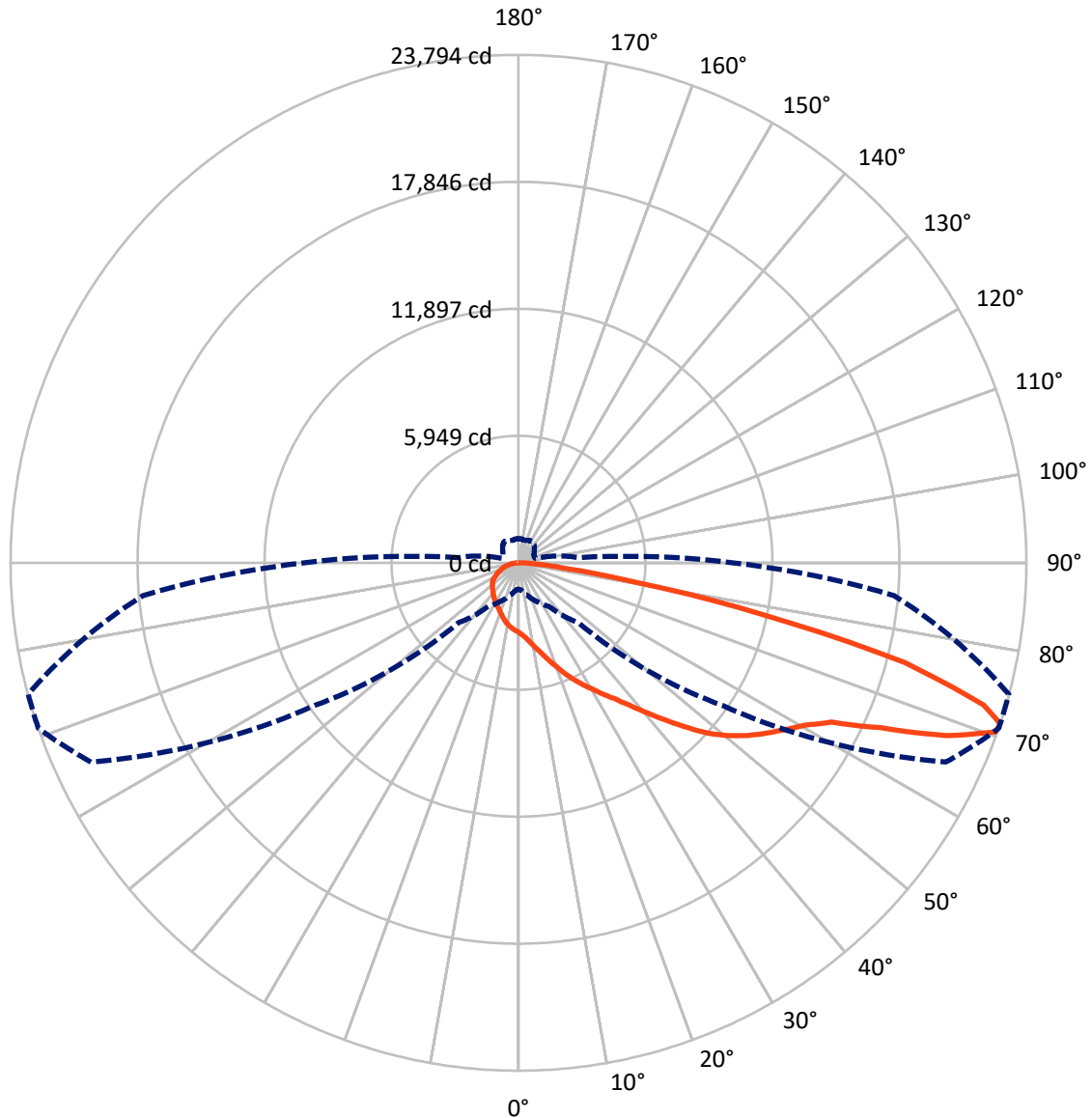
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	4778.7	0.0	4778.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	21792.4	0.0	21792.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	26571.1	0.0	26571.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.4	1.2
10°-20°	1063.8	4.0
20°-30°	1859.1	7.0
30°-40°	2765.2	10.4
40°-50°	4074.1	15.3
50°-60°	5703.8	21.5
60°-70°	6379.5	24.0
70°-80°	3896.9	14.7
80°-90°	501.3	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°	26571.1	100.0
0°-180°	26571.1	100.0

Coefficient of Utilization

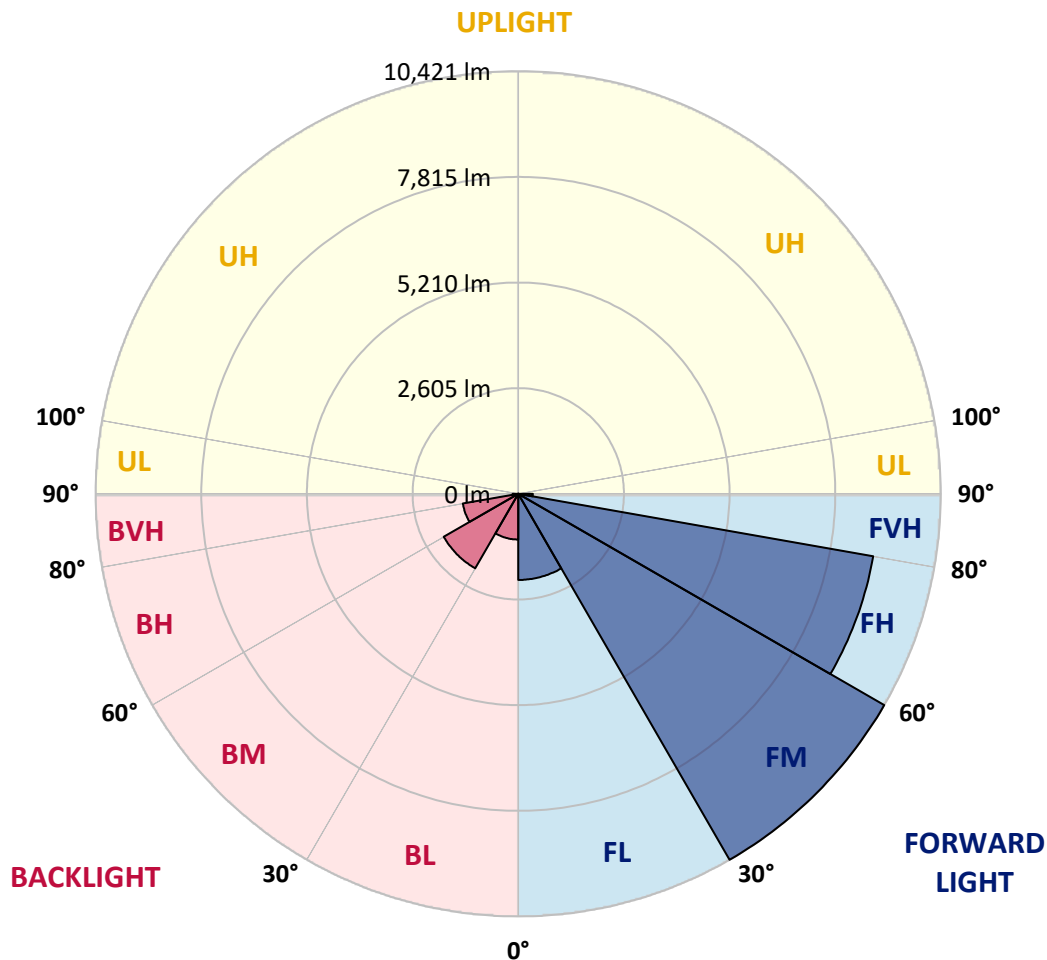


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.0	8.0			
FM (30°-60°)	10420.7	39.2			
FH (60°-80°)	8887.9	33.4			G4/12000
FVH (80°-90°)	360.7	1.4			G3/500
BL (0°-30°)	1127.3	4.2	B3/2500		
BM (30°-60°)	2122.4	8.0	B2/2500		
BH (60°-80°)	1388.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	140.6	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°	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1
2.5°	3620.4	3602.8	3604.3	3579.5	3547.3	3512.3	3462.6	3418.8	3383.7	3363.3	3303.4
5°	4011.7	3994.2	3972.3	3918.3	3894.9	3808.7	3699.2	3599.9	3524.0	3481.6	3361.8
7.5°	4328.7	4324.3	4318.4	4287.7	4227.9	4108.1	4014.7	3842.3	3729.9	3649.6	3445.1
10°	4524.3	4531.6	4536.0	4541.9	4517.0	4454.3	4325.7	4108.1	3965.0	3862.8	3553.2
12.5°	4623.6	4631.0	4655.8	4709.8	4743.4	4736.1	4631.0	4417.7	4220.5	4086.2	3668.5
15°	4685.0	4696.7	4740.4	4812.0	4924.4	4996.0	4945.0	4747.8	4531.6	4372.4	3805.8
17.5°	4752.2	4765.3	4813.5	4915.8	5063.2	5218.0	5273.5	5104.1	4869.0	4679.1	3959.2
20°	4790.2	4807.6	4876.3	5010.7	5183.0	5407.9	5591.9	5502.8	5245.8	5035.5	4135.9
22.5°	4851.5	4866.0	4924.4	5067.6	5273.5	5555.4	5910.2	5891.3	5664.9	5393.3	4330.1
25°	5017.9	5041.3	5070.6	5156.7	5355.3	5705.8	6174.6	6306.0	6070.9	5767.1	4508.3
27.5°	5331.9	5350.9	5349.5	5361.1	5473.6	5835.8	6403.8	6716.4	6474.0	6145.4	4680.6
30°	5689.7	5697.0	5702.9	5676.6	5701.4	5968.7	6614.2	7122.4	6880.0	6533.8	4831.0
32.5°	6124.9	6139.5	6089.9	6022.7	6002.2	6165.8	6788.0	7528.4	7360.4	6928.1	4980.0
35°	6639.0	6677.0	6576.2	6457.9	6374.6	6449.1	7021.6	7943.1	7852.6	7432.0	5177.1
37.5°	7226.1	7272.8	7179.3	6947.2	6828.9	6849.3	7326.8	8455.7	8474.7	8005.9	5470.7
40°	7706.5	7767.9	7770.8	7442.2	7262.6	7286.0	7713.9	9007.8	9225.4	8715.7	5816.8
42.5°	8023.5	8083.3	8146.1	7953.3	7764.9	7897.9	8165.1	9606.5	10069.5	9577.3	6300.2
45°	8371.1	8425.1	8460.1	8372.5	8267.3	8612.0	8709.9	10243.3	10969.0	10539.7	6828.9
47.5°	8774.1	8834.0	8867.6	8784.3	8744.9	9238.5	9297.0	10837.7	11930.0	11474.4	7413.0
50°	9311.5	9356.8	9339.3	9286.7	9277.9	9719.0	9860.6	11394.1	12723.0	12480.6	8019.1
52.5°	9980.4	10034.5	10053.4	9978.9	9945.4	10062.2	10314.9	11900.8	13444.5	13345.1	8666.0
55°	10384.9	10471.1	10760.2	10877.0	10957.4	10506.1	10804.1	12460.2	14091.4	14256.5	9361.2
57.5°	9866.5	9977.5	10624.4	11208.6	11963.6	11616.0	11497.7	13044.3	14738.4	15140.0	10193.6
60°	8601.8	8626.6	9460.5	10536.8	12055.6	13042.8	12945.0	13973.1	15439.4	16030.8	11290.4
62.5°	5967.2	6019.8	7005.6	8723.0	10919.4	13556.9	15407.2	15576.7	16444.1	17364.2	12898.3
65°	3077.0	3008.4	3906.5	5482.3	8232.3	12336.0	17402.2	18525.2	18623.0	19449.6	15161.9
67.5°	1894.2	1924.8	2345.4	3201.2	4867.5	8965.4	17193.3	22128.0	21612.5	22009.7	17263.4
70°	1422.4	1460.4	1749.5	2190.6	2967.6	5126.0	13827.1	23001.3	23721.3	23619.1	17903.1
71°	1237.0	1276.4	1577.2	1993.4	2492.9	3956.3	11649.6	22087.1	23794.4	23776.8	17662.1
72.5°	1054.4	1079.2	1314.3	1688.2	2101.5	2773.3	8752.2	19808.9	22779.3	23362.1	16801.9
75°	828.0	847.0	952.2	1288.1	1654.6	1702.9	4696.7	14850.8	18709.2	19819.1	13987.7
77.5°	674.7	687.9	741.9	956.6	1276.4	1206.3	2463.7	9666.4	11721.2	12838.4	8239.6
80°	536.0	550.6	582.7	648.4	956.6	860.2	1175.6	4898.2	5662.0	5650.3	3288.8
82.5°	416.2	420.6	458.6	476.1	654.3	610.4	636.7	2073.8	2297.2	2373.1	1187.3
85°	262.9	276.0	406.0	365.1	391.4	357.8	314.0	823.6	1015.0	1000.4	474.7
87.5°	80.3	84.7	137.3	154.8	173.8	156.3	115.3	242.4	296.4	321.3	118.3
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°	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1
2.5°	3280.1	3264.0	3207.0	3160.3	3116.5	3068.3	3027.4	3015.7	3005.5	3001.2	2999.7
5°	3310.8	3262.5	3150.1	3058.1	2985.0	2917.8	2875.6	2856.5	2837.6	2837.6	2843.4
7.5°	3354.5	3266.9	3093.2	2955.8	2863.8	2801.0	2770.4	2767.4	2771.8	2776.2	2777.7
10°	3402.8	3264.0	3009.9	2839.0	2757.3	2728.1	2729.5	2754.3	2777.7	2795.2	2798.1
12.5°	3449.5	3246.5	2912.1	2729.5	2676.9	2682.8	2723.7	2779.2	2824.4	2849.3	2850.7
15°	3502.0	3218.8	2793.7	2625.8	2608.3	2653.6	2729.5	2814.2	2882.8	2923.7	2928.1
17.5°	3545.9	3172.0	2669.6	2525.0	2546.9	2630.2	2735.3	2844.9	2928.1	2979.2	2988.0
20°	3595.5	3112.1	2541.1	2428.6	2491.4	2603.9	2723.7	2842.0	2928.1	2977.7	2989.4
22.5°	3634.9	3027.4	2418.5	2349.8	2441.8	2571.8	2684.2	2779.2	2849.3	2875.6	2893.0
25°	3651.0	2920.8	2303.0	2285.5	2402.4	2519.2	2595.1	2649.2	2671.0	2668.2	2675.4
27.5°	3642.3	2798.1	2203.8	2234.4	2352.7	2437.4	2475.4	2471.0	2431.6	2395.0	2412.6
30°	3605.7	2652.1	2120.5	2181.8	2288.5	2335.2	2329.3	2272.4	2197.9	2129.3	2133.7
32.5°	3540.0	2494.4	2043.1	2121.9	2197.9	2218.3	2178.9	2104.5	1997.8	1908.7	1895.6
35°	3484.5	2343.9	1974.5	2053.3	2107.4	2097.1	2059.1	1962.7	1866.4	1787.5	1774.4
37.5°	3475.7	2215.4	1908.7	1975.9	2006.6	1992.0	1945.3	1863.5	1828.5	1768.6	1761.3
40°	3522.5	2124.9	1841.5	1894.2	1908.7	1897.1	1845.9	1799.2	1831.4	1816.7	1816.7
42.5°	3649.6	2076.7	1781.7	1812.3	1824.1	1832.8	1796.3	1756.9	1796.3	1729.1	1707.2
45°	3851.1	2078.2	1727.7	1732.1	1767.1	1797.8	1772.9	1714.5	1694.1	1559.7	1533.4
47.5°	4147.6	2127.8	1683.8	1656.1	1718.9	1770.0	1735.0	1650.3	1559.7	1470.6	1454.6
50°	4493.6	2216.9	1644.4	1577.2	1654.6	1735.0	1708.7	1609.4	1515.9	1461.9	1451.6
52.5°	4877.8	2329.3	1596.2	1489.6	1575.8	1718.9	1714.5	1603.5	1475.0	1438.5	1429.8
55°	5352.4	2440.3	1536.3	1387.4	1505.7	1705.8	1698.5	1555.4	1466.2	1439.9	1437.0
57.5°	5904.4	2601.0	1450.2	1283.7	1425.4	1651.7	1635.7	1526.1	1437.0	1418.0	1416.6
60°	6793.8	2850.7	1327.5	1188.8	1343.5	1556.8	1577.2	1476.5	1390.3	1385.9	1384.5
62.5°	7963.6	3201.2	1200.4	1091.0	1248.7	1434.1	1492.6	1409.3	1340.7	1362.6	1365.5
65°	9578.8	3496.2	1069.0	1007.6	1143.5	1315.8	1412.2	1346.5	1285.1	1327.5	1327.5
67.5°	10631.7	3502.0	949.2	921.5	1036.8	1216.5	1327.5	1272.0	1213.6	1285.1	1288.1
70°	10412.6	3068.3	849.9	831.0	933.2	1109.9	1234.0	1190.2	1123.1	1187.3	1163.9
71°	10059.3	2827.3	810.6	795.9	892.3	1058.8	1190.2	1153.8	1086.6	1128.9	1115.8
72.5°	9495.5	2454.9	746.3	749.2	831.0	994.6	1128.9	1091.0	1023.8	1047.1	1042.7
75°	8026.4	2143.9	638.2	651.4	714.2	885.0	1006.2	977.0	908.4	908.4	904.0
77.5°	5017.9	1498.3	530.1	537.5	606.0	757.9	864.6	839.8	774.0	752.1	746.3
80°	1872.2	774.0	414.8	423.5	465.9	597.3	715.6	692.3	625.1	600.2	576.8
82.5°	708.3	388.4	305.2	297.9	343.2	455.6	560.8	533.1	480.4	420.6	403.1
85°	267.2	192.8	186.9	181.1	201.5	270.2	347.6	341.7	286.3	243.9	239.5
87.5°	70.1	62.8	73.1	54.0	56.9	51.1	52.5	21.9	10.3	4.4	2.9
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)