

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: P650823

Luminaire Tested: **GALN-SA3C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17502.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

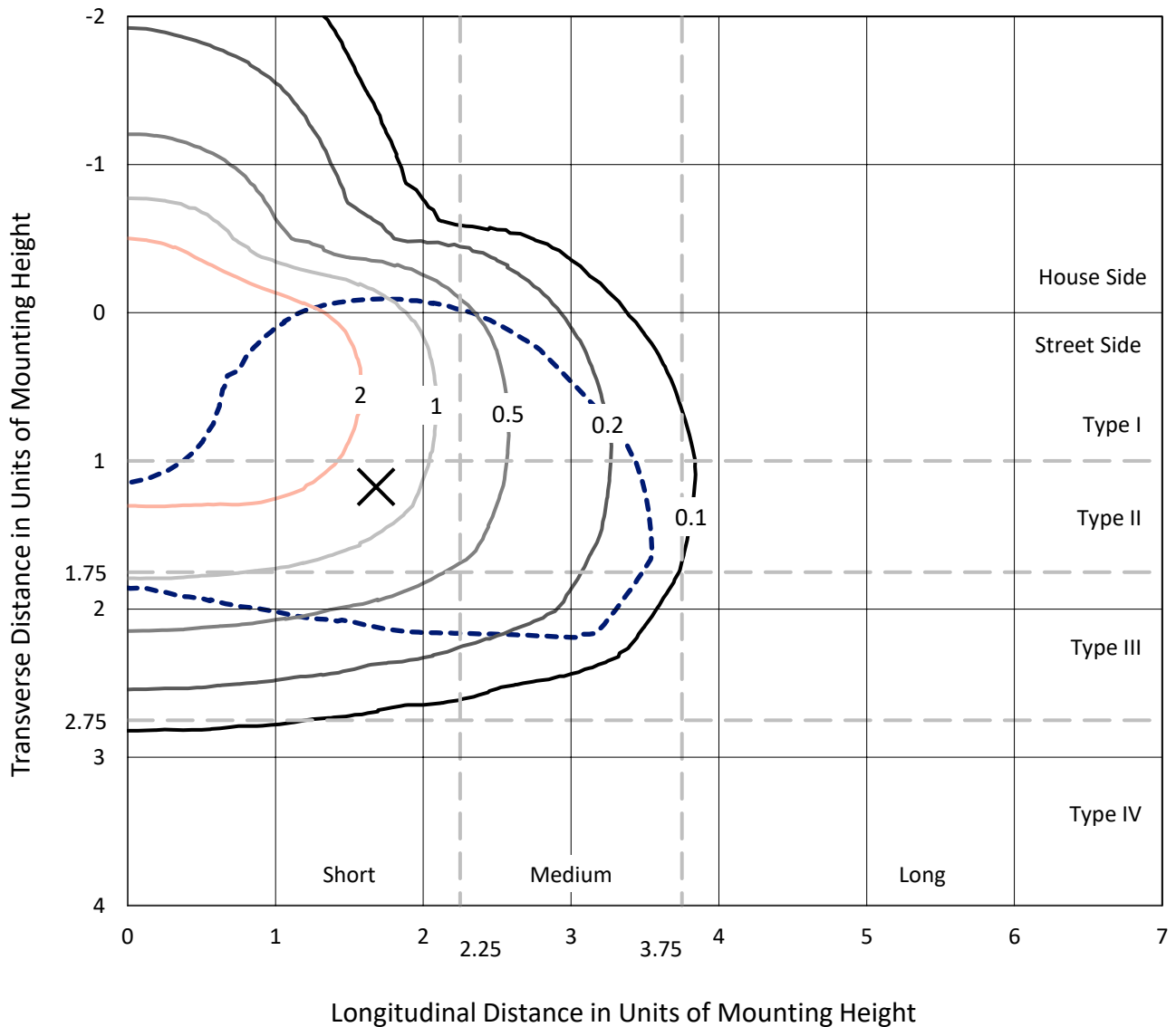
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

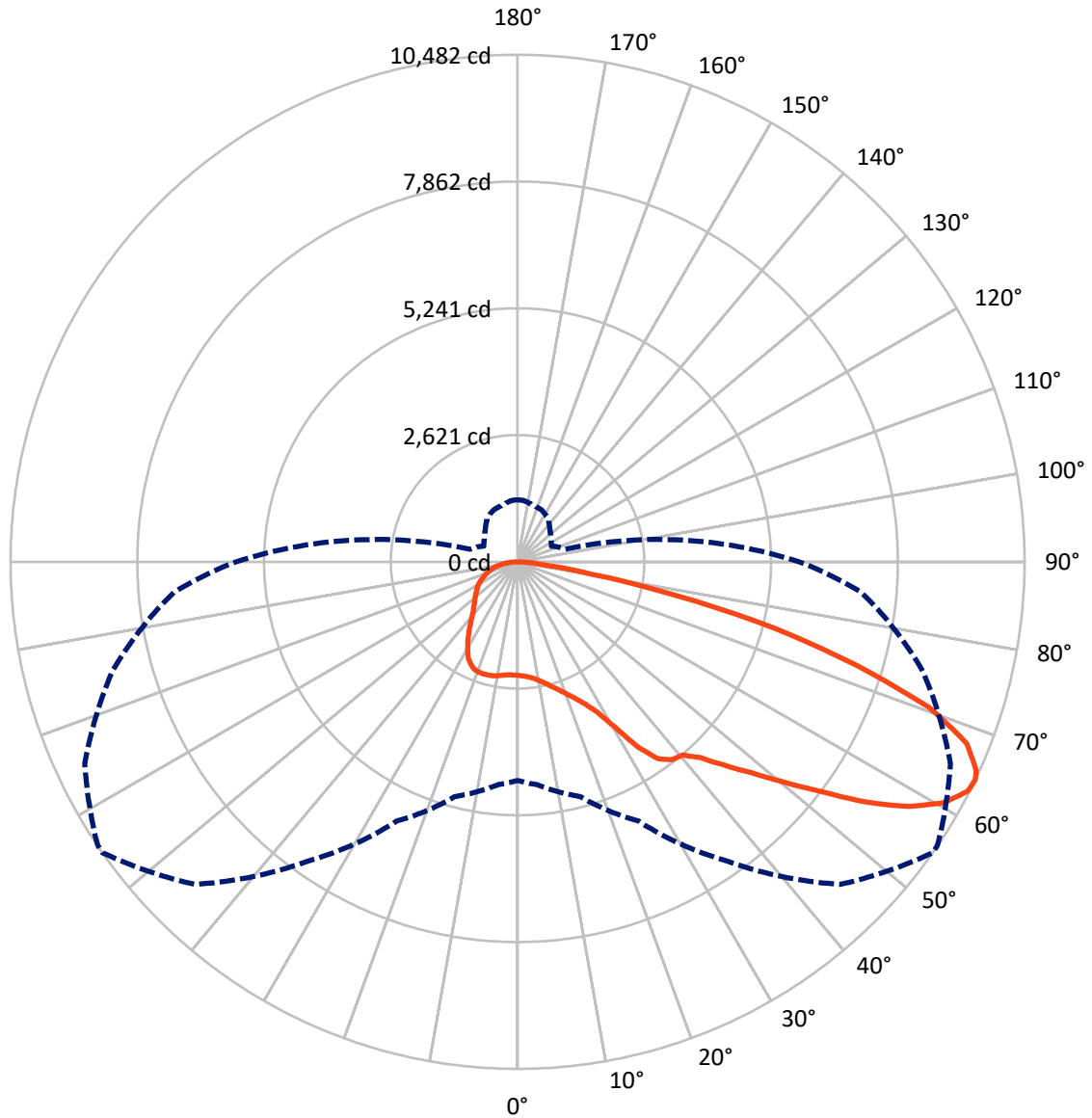
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4251.8	0.0	4251.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13251.1	0.0	13251.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	17502.9	0.0	17502.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.3
10°-20°	720.8	4.1
20°-30°	1283.2	7.3
30°-40°	1974.3	11.3
40°-50°	2798.7	16.0
50°-60°	4051.1	23.1
60°-70°	4192.4	24.0
70°-80°	1963.3	11.2
80°-90°	290.6	1.7
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°	17502.9	100.0
0°-180°	17502.9	100.0

Coefficient of Utilization

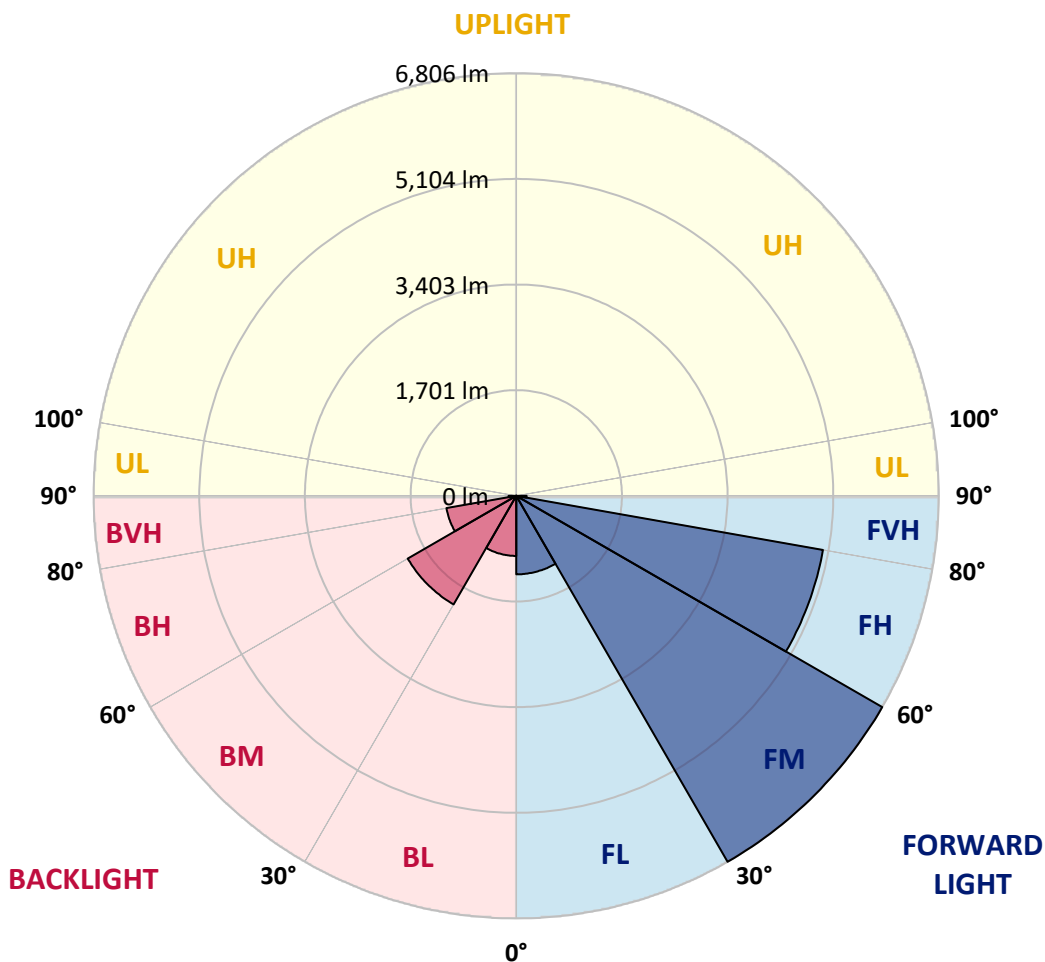


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.0	7.2			
FM (30°-60°)	6805.6	38.9			
FH (60°-80°)	5015.1	28.7			G3/7500
FVH (80°-90°)	166.4	1.0			G2/225
BL (0°-30°)	968.4	5.5	B2/1000		
BM (30°-60°)	2018.5	11.5	B2/2500		
BH (60°-80°)	1140.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	124.2	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	2374.7	2373.7	2376.7	2373.7	2375.7	2368.8	2365.9	2367.8	2365.0	2360.1	2351.3
5°	2404.0	2403.0	2404.0	2400.0	2402.0	2398.1	2391.3	2393.2	2388.4	2377.6	2365.0
7.5°	2453.7	2449.8	2449.8	2448.8	2445.0	2439.1	2434.2	2432.3	2427.4	2413.8	2394.2
10°	2518.1	2518.1	2519.1	2511.3	2516.2	2505.4	2500.5	2499.6	2483.0	2465.5	2438.1
12.5°	2603.0	2607.9	2604.9	2601.0	2599.1	2595.2	2578.6	2582.5	2564.0	2533.8	2500.5
15°	2708.4	2716.2	2711.3	2709.4	2704.5	2689.9	2683.0	2680.1	2655.7	2611.8	2567.9
17.5°	2847.9	2838.1	2834.3	2829.4	2808.9	2798.1	2786.4	2784.5	2763.0	2711.3	2643.0
20°	2969.8	2983.5	2975.7	2970.8	2950.3	2929.9	2921.0	2918.1	2899.6	2843.0	2733.8
22.5°	3115.2	3118.2	3121.0	3109.3	3099.6	3084.0	3068.4	3063.5	3056.7	2998.2	2864.4
25°	3270.3	3282.1	3272.2	3260.6	3248.9	3247.9	3262.5	3260.6	3257.6	3201.1	3038.1
27.5°	3523.0	3533.8	3536.7	3524.0	3479.1	3483.0	3516.2	3526.9	3571.8	3478.1	3261.6
30°	3665.5	3676.2	3700.6	3748.4	3819.7	3882.1	3962.0	3986.4	4029.4	3852.8	3526.9
32.5°	3753.3	3757.2	3801.1	3889.9	4103.5	4336.7	4554.3	4563.1	4590.3	4342.6	3769.9
35°	3891.8	3894.8	3929.9	4027.5	4278.2	4666.5	5003.1	5013.8	4991.3	4494.7	3883.1
37.5°	4062.5	4070.4	4092.8	4173.8	4473.3	4942.6	5189.4	5181.7	4982.6	4615.7	4083.1
40°	4311.3	4311.3	4285.0	4394.3	4679.2	5100.7	5254.8	5241.1	5188.5	4966.0	4387.4
42.5°	4530.9	4526.9	4589.4	4663.5	4936.8	5344.6	5528.9	5551.4	5638.2	5406.0	4733.8
45°	4816.7	4834.3	4869.4	5004.0	5374.7	5761.1	5999.2	6020.6	6143.6	5924.1	5138.7
47.5°	5105.5	5111.3	5221.6	5401.2	5917.3	6326.0	6521.2	6556.3	6668.5	6529.9	5574.8
50°	5310.4	5366.0	5542.6	5825.5	6476.3	7014.9	7167.0	7209.0	7407.0	7189.5	6083.1
52.5°	5527.0	5581.6	5797.3	6228.4	7118.2	7719.3	7906.6	7934.8	8140.7	7856.8	6603.1
55°	5712.3	5763.1	6007.9	6585.5	7629.5	8438.3	8777.9	8744.6	8843.2	8371.0	7004.1
57.5°	5742.6	5783.6	6091.9	6813.9	8013.9	9054.9	9541.7	9561.2	9447.1	8755.4	7334.9
60°	5508.5	5592.3	5946.5	6789.5	8186.5	9484.2	10111.5	10125.1	9801.3	8952.4	7466.6
62.5°	5093.8	5085.0	5513.3	6397.2	7944.6	9581.8	10447.2	10432.5	9939.8	8857.8	7338.7
64°	4521.1	4626.5	5026.5	5915.3	7554.4	9431.5	10482.2	10474.5	9873.4	8660.7	7121.2
65°	4171.9	4166.0	4561.1	5521.2	7166.1	9205.2	10419.8	10409.1	9734.9	8484.2	6952.4
67.5°	3011.8	3025.4	3415.7	4260.6	5825.5	8320.3	10012.9	9973.0	9188.5	7898.8	6310.4
70°	1824.5	1832.3	2138.6	2826.4	4181.6	6726.1	9025.6	9027.5	8352.5	7024.6	5370.9
72.5°	961.0	981.5	1104.4	1605.0	2539.6	4719.2	7322.2	7495.8	7171.0	5995.3	4243.0
75°	534.6	537.6	624.4	791.2	1295.6	2641.1	5503.6	5553.3	5677.3	4825.5	3137.7
77.5°	407.8	413.7	441.0	511.2	705.3	1224.4	3330.9	3580.6	4001.1	3402.0	1790.3
80°	330.8	336.6	360.0	402.0	469.3	580.5	1547.4	1682.0	2141.5	1510.3	698.5
82.5°	257.6	253.6	283.9	311.3	341.4	343.5	635.1	702.5	872.2	649.8	302.4
85°	191.2	191.2	215.6	209.7	220.5	201.0	280.0	309.2	349.3	276.1	140.5
87.5°	76.1	83.9	141.5	126.8	98.6	79.1	103.4	109.2	121.0	108.3	58.5
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°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	2352.3	2355.2	2348.3	2343.4	2341.5	2338.6	2335.7	2336.6	2340.6	2344.5	2343.4
5°	2364.0	2365.0	2353.2	2347.4	2343.4	2339.6	2339.6	2342.5	2350.3	2356.1	2356.1
7.5°	2393.2	2393.2	2376.7	2365.9	2360.1	2353.2	2351.3	2352.3	2358.1	2365.9	2366.9
10°	2439.1	2435.2	2413.8	2397.1	2386.4	2369.9	2355.2	2347.4	2350.3	2355.2	2355.2
12.5°	2494.7	2484.0	2456.6	2434.2	2407.9	2376.7	2346.4	2330.8	2329.8	2334.7	2332.8
15°	2554.2	2542.5	2504.5	2463.5	2417.6	2371.8	2335.7	2313.3	2295.7	2290.8	2301.6
17.5°	2623.5	2599.1	2546.4	2489.9	2421.5	2362.0	2305.4	2259.6	2228.4	2219.6	2222.5
20°	2707.4	2675.2	2604.0	2515.2	2418.6	2326.9	2239.1	2177.6	2126.9	2111.2	2113.3
22.5°	2823.5	2767.9	2663.5	2527.9	2394.2	2260.5	2138.6	2058.6	1997.1	1972.7	1987.4
25°	2955.2	2894.7	2720.0	2524.9	2330.8	2154.2	2019.6	1915.2	1859.5	1823.5	1831.3
27.5°	3136.7	3029.4	2780.6	2498.6	2240.1	2024.5	1868.4	1769.8	1719.1	1700.5	1709.3
30°	3368.9	3204.0	2845.9	2427.4	2096.6	1860.5	1716.1	1651.7	1621.5	1598.1	1605.9
32.5°	3536.7	3326.9	2860.6	2307.4	1941.5	1711.3	1612.7	1564.9	1531.7	1509.3	1514.2
35°	3656.7	3431.3	2853.8	2160.0	1779.6	1588.3	1530.8	1491.8	1438.1	1389.3	1380.5
37.5°	3817.6	3562.1	2804.0	1999.1	1619.6	1505.4	1464.4	1392.3	1315.2	1249.8	1246.9
40°	4064.5	3715.2	2697.7	1809.8	1482.9	1443.9	1394.2	1300.5	1217.6	1165.0	1161.0
42.5°	4319.1	3856.7	2553.3	1610.8	1370.7	1379.6	1319.0	1226.3	1175.6	1141.5	1137.6
45°	4630.4	4009.9	2397.1	1438.1	1287.8	1319.0	1253.7	1200.0	1169.8	1147.4	1141.5
47.5°	4966.9	4167.0	2221.5	1282.9	1217.6	1263.4	1226.3	1202.0	1185.4	1169.8	1162.9
50°	5329.9	4342.6	2056.7	1158.1	1154.2	1205.9	1223.5	1214.7	1204.9	1200.0	1194.2
52.5°	5728.0	4522.1	1918.1	1070.3	1098.6	1165.0	1224.4	1231.2	1231.2	1228.4	1224.4
55°	5997.3	4646.9	1777.6	999.0	1042.0	1131.7	1222.5	1248.8	1258.6	1254.7	1250.7
57.5°	6196.2	4715.2	1601.0	937.5	994.1	1099.5	1211.7	1250.7	1260.5	1265.4	1263.4
60°	6237.3	4651.8	1369.8	873.2	942.4	1052.7	1172.7	1221.5	1234.2	1264.4	1267.4
62.5°	6052.8	4456.7	1139.6	809.8	879.0	981.5	1120.0	1188.3	1213.7	1260.5	1265.4
64°	5826.5	4238.1	1011.7	769.8	838.1	941.5	1093.7	1179.6	1212.7	1275.1	1279.1
65°	5660.7	4079.1	931.7	744.5	811.7	915.2	1079.1	1182.4	1221.5	1297.6	1303.5
67.5°	5049.9	3531.8	770.8	684.9	749.3	870.3	1081.9	1206.8	1219.5	1306.4	1305.4
70°	4178.7	2811.8	645.9	630.2	688.8	834.2	1070.3	1167.8	1168.8	1226.3	1212.7
72.5°	3128.9	2078.1	560.0	573.6	621.5	748.3	1010.8	1115.2	1098.6	1106.3	1092.7
75°	2149.3	1374.7	482.0	513.2	551.3	661.4	926.9	1012.7	986.4	976.7	966.9
77.5°	1147.4	760.0	401.0	453.6	479.0	571.7	808.8	891.7	864.4	826.4	813.7
80°	464.4	358.1	322.9	375.6	390.2	460.5	673.2	724.9	704.4	638.1	616.6
82.5°	233.2	214.6	253.6	295.6	296.6	328.8	500.5	549.3	503.4	422.4	403.9
85°	121.9	125.9	174.7	207.8	183.4	177.5	300.5	332.7	305.4	265.3	239.0
87.5°	43.9	50.7	91.7	90.7	64.4	34.1	66.4	32.2	17.6	10.8	13.6
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)