

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: P652363

Luminaire Tested: **GALN-SA4B-840-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652363  
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-SA4B-840-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18772.8 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

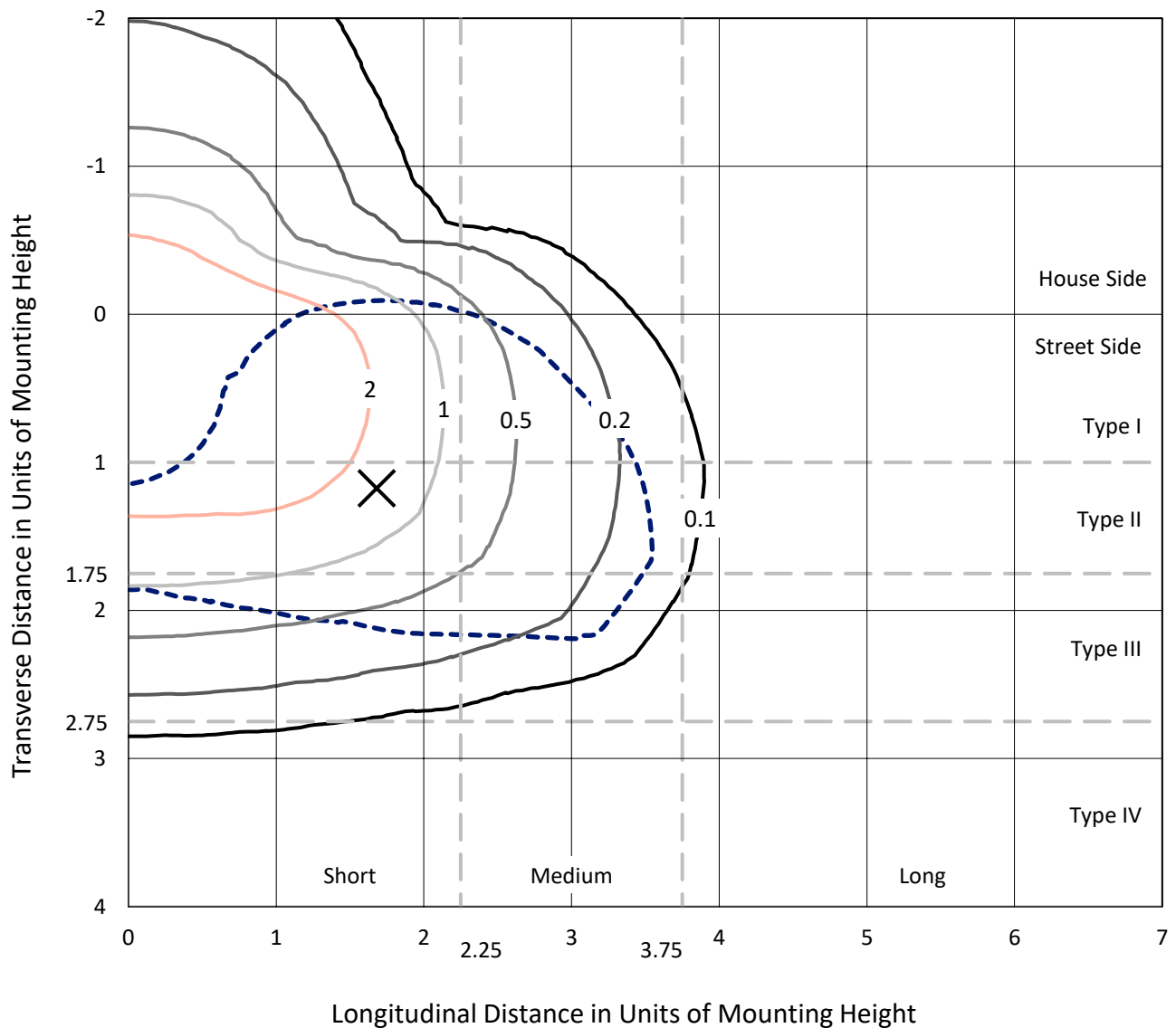
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

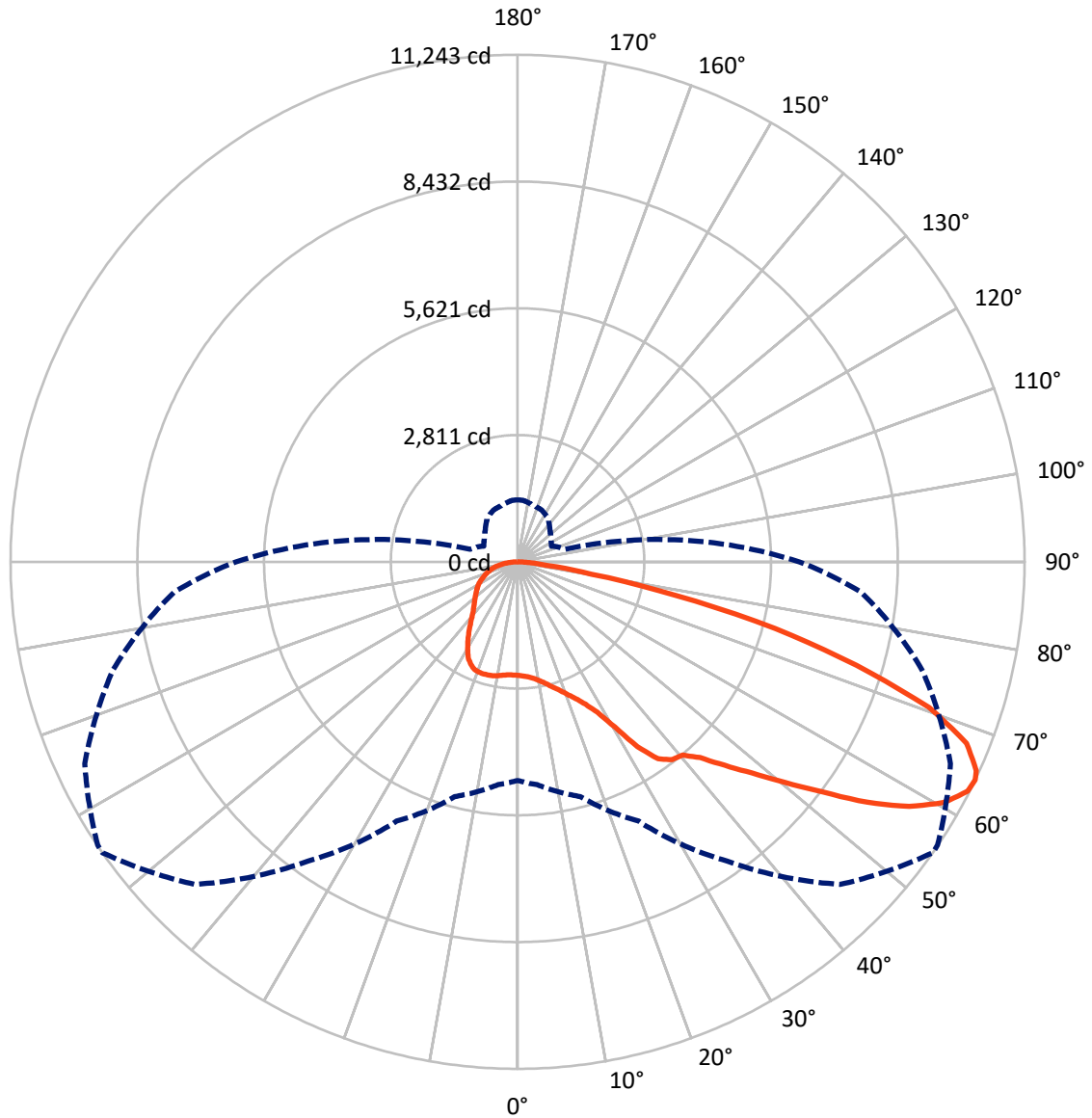
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	4560.3	0.0	4560.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	14212.5	0.0	14212.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	18772.8	0.0	18772.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	1.3
10°-20°	773.1	4.1
20°-30°	1376.3	7.3
30°-40°	2117.5	11.3
40°-50°	3001.8	16.0
50°-60°	4345.0	23.1
60°-70°	4496.6	24.0
70°-80°	2105.8	11.2
80°-90°	311.7	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°	18772.8	100.0
0°-180°	18772.8	100.0

**Coefficient of Utilization**



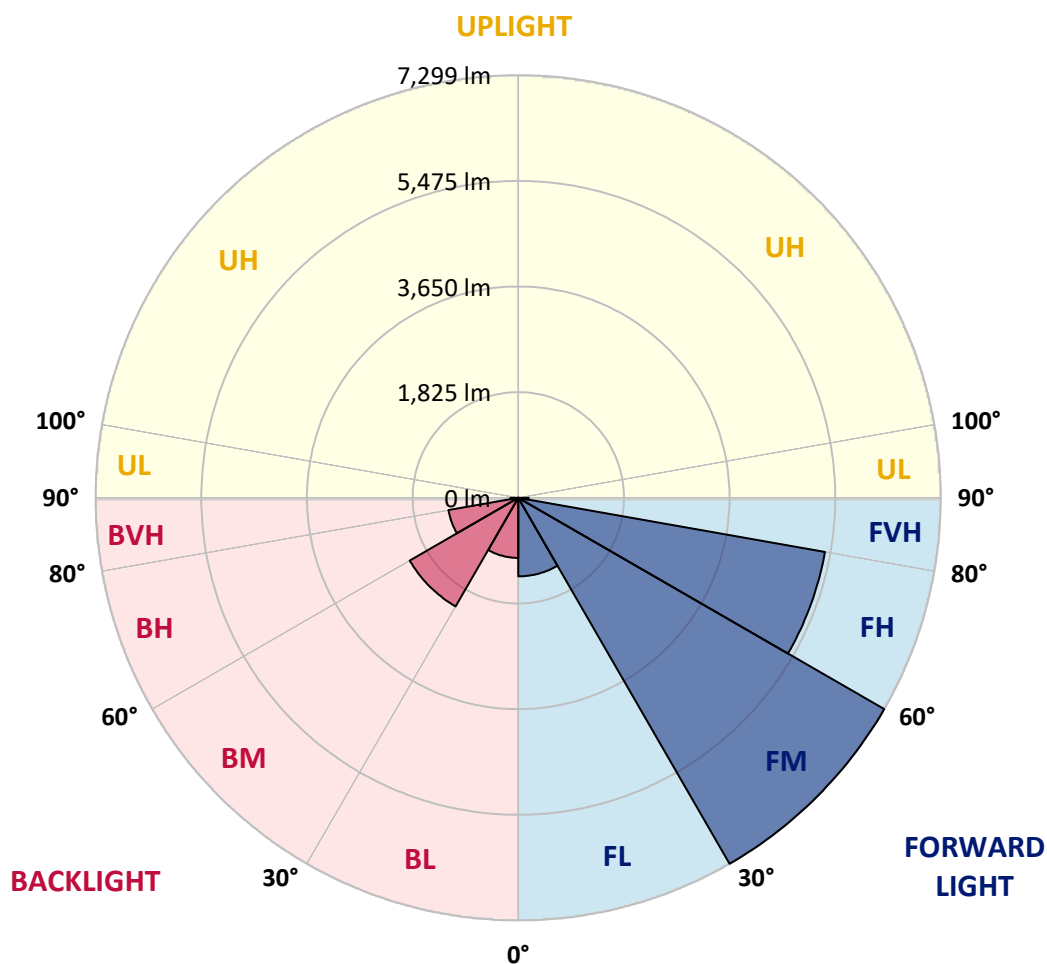
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.7	7.2			
FM (30°-60°)	7299.4	38.9			
FH (60°-80°)	5379.0	28.7			G3/7500
FVH (80°-90°)	178.5	1.0			G2/225
BL (0°-30°)	1038.7	5.5	B3/2500		
BM (30°-60°)	2164.9	11.5	B2/2500		
BH (60°-80°)	1223.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	133.2	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°	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7
2.5°	2547.0	2546.0	2549.1	2546.0	2548.1	2540.7	2537.5	2539.7	2536.5	2531.3	2521.9
5°	2578.4	2577.3	2578.4	2574.2	2576.3	2572.1	2564.8	2566.9	2561.7	2550.2	2536.5
7.5°	2631.7	2627.5	2627.5	2626.5	2622.3	2616.1	2610.8	2608.7	2603.5	2588.9	2567.9
10°	2700.8	2700.8	2701.9	2693.5	2698.8	2687.2	2681.9	2680.9	2663.1	2644.4	2615.0
12.5°	2791.9	2797.1	2794.0	2789.8	2787.7	2783.5	2765.7	2769.9	2750.0	2717.5	2681.9
15°	2904.9	2913.2	2908.0	2905.9	2900.7	2885.0	2877.6	2874.5	2848.4	2801.3	2754.2
17.5°	3054.5	3044.1	3039.9	3034.7	3012.6	3001.1	2988.6	2986.5	2963.4	2908.0	2834.8
20°	3185.3	3200.0	3191.6	3186.4	3164.3	3142.4	3133.0	3129.9	3109.9	3049.3	2932.1
22.5°	3341.2	3344.4	3347.5	3335.0	3324.5	3307.7	3291.0	3285.8	3278.5	3215.6	3072.3
25°	3507.6	3520.2	3509.7	3497.1	3484.6	3483.5	3499.2	3497.1	3494.0	3433.3	3258.5
27.5°	3778.6	3790.1	3793.2	3779.7	3731.5	3735.7	3771.3	3782.8	3830.9	3730.5	3498.2
30°	3931.4	3942.9	3969.1	4020.4	4096.8	4163.7	4249.5	4275.7	4321.7	4132.3	3782.8
32.5°	4025.6	4029.8	4076.8	4172.1	4401.3	4651.3	4884.7	4894.1	4923.5	4657.6	4043.4
35°	4174.2	4177.3	4215.0	4319.6	4588.6	5005.0	5366.1	5377.6	5353.5	4820.9	4164.8
37.5°	4357.3	4365.7	4389.8	4476.6	4797.8	5301.2	5565.9	5557.6	5344.1	4950.6	4379.3
40°	4624.2	4624.2	4595.9	4713.1	5018.7	5470.7	5636.0	5621.4	5564.9	5326.3	4705.7
42.5°	4859.6	4855.4	4922.4	5001.9	5294.9	5732.3	5930.1	5954.2	6047.3	5798.3	5077.3
45°	5166.2	5185.0	5222.7	5367.1	5764.7	6179.2	6434.5	6457.5	6589.3	6353.9	5511.5
47.5°	5475.9	5482.2	5600.5	5793.0	6346.5	6785.0	6994.3	7031.9	7152.3	7003.7	5979.3
50°	5695.7	5755.3	5944.8	6248.2	6946.2	7523.8	7687.0	7732.1	7944.4	7711.1	6524.5
52.5°	5928.0	5986.6	6217.8	6680.4	7634.7	8279.3	8480.2	8510.6	8731.3	8426.8	7082.2
55°	6126.9	6181.3	6443.9	7063.4	8183.0	9050.5	9414.7	9379.1	9484.8	8978.3	7512.3
57.5°	6159.2	6203.2	6533.9	7308.2	8595.4	9711.9	10234.0	10255.0	10132.5	9390.6	7867.1
60°	5908.1	5998.1	6378.0	7282.1	8780.5	10172.3	10845.1	10859.8	10512.4	9601.9	8008.3
62.5°	5463.4	5454.0	5913.3	6861.4	8521.0	10276.9	11205.1	11189.4	10660.9	9500.5	7871.2
64°	4849.1	4962.2	5391.1	6344.5	8102.4	10115.8	11242.8	11234.4	10589.8	9289.1	7637.9
65°	4474.5	4468.2	4892.0	5921.7	7686.0	9873.0	11175.8	11164.3	10441.2	9099.7	7456.8
67.5°	3230.3	3245.0	3663.6	4569.7	6248.2	8923.9	10739.5	10696.5	9855.3	8471.8	6768.3
70°	1956.8	1965.2	2293.7	3031.5	4485.0	7214.0	9680.5	9682.6	8958.4	7534.3	5760.6
72.5°	1030.7	1052.7	1184.5	1721.4	2723.8	5061.6	7853.4	8039.7	7691.2	6430.3	4550.9
75°	573.5	576.6	669.7	848.7	1389.7	2832.7	5902.9	5956.2	6089.2	5175.6	3365.3
77.5°	437.4	443.7	473.0	548.3	756.6	1313.2	3572.5	3840.3	4291.4	3648.8	1920.2
80°	354.7	361.0	386.1	431.1	503.3	622.6	1659.6	1804.0	2296.9	1619.9	749.2
82.5°	276.3	272.1	304.5	333.8	366.3	368.4	681.2	753.5	935.5	696.9	324.4
85°	205.1	205.1	231.3	225.0	236.5	215.5	300.3	331.7	374.6	296.1	150.7
87.5°	81.7	90.0	151.7	136.1	105.7	84.8	110.9	117.2	129.8	116.1	62.8
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°	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7	2518.7
2.5°	2522.9	2526.0	2518.7	2513.5	2511.4	2508.3	2505.2	2506.2	2510.4	2514.6	2513.5
5°	2535.4	2536.5	2524.0	2517.7	2513.5	2509.3	2509.3	2512.5	2520.8	2527.1	2527.1
7.5°	2566.9	2566.9	2549.1	2537.5	2531.3	2524.0	2521.9	2522.9	2529.2	2537.5	2538.6
10°	2616.1	2611.9	2588.9	2571.1	2559.6	2541.8	2526.0	2517.7	2520.8	2526.0	2526.0
12.5°	2675.7	2664.2	2634.9	2610.8	2582.5	2549.1	2516.7	2499.9	2498.9	2504.1	2502.0
15°	2739.6	2726.9	2686.2	2642.3	2593.1	2543.9	2505.2	2481.0	2462.2	2457.0	2468.5
17.5°	2813.8	2787.7	2731.1	2670.5	2597.3	2533.4	2472.7	2423.5	2390.0	2380.6	2383.7
20°	2903.8	2869.3	2792.9	2697.7	2594.1	2495.8	2401.6	2335.6	2281.2	2264.5	2266.6
22.5°	3028.4	2968.7	2856.7	2711.3	2567.9	2424.6	2293.7	2208.0	2142.0	2115.9	2131.6
25°	3169.6	3104.7	2917.4	2708.2	2499.9	2310.5	2166.1	2054.1	1994.5	1955.7	1964.2
27.5°	3364.3	3249.1	2982.3	2679.9	2402.6	2171.3	2003.9	1898.2	1843.8	1823.9	1833.3
30°	3613.3	3436.5	3052.4	2603.5	2248.7	1995.5	1840.7	1771.6	1739.2	1714.0	1722.5
32.5°	3793.2	3568.3	3068.1	2474.8	2082.4	1835.4	1729.8	1678.5	1642.9	1618.8	1624.1
35°	3922.0	3680.3	3060.8	2316.8	1908.6	1703.6	1641.8	1600.0	1542.4	1490.1	1480.7
37.5°	4094.7	3820.5	3007.4	2144.1	1737.1	1614.6	1570.7	1493.3	1410.6	1340.5	1337.4
40°	4359.4	3984.7	2893.4	1941.1	1590.6	1548.7	1495.4	1394.9	1305.9	1249.4	1245.3
42.5°	4632.5	4136.5	2738.5	1727.7	1470.2	1479.7	1414.7	1315.3	1260.9	1224.3	1220.1
45°	4966.4	4300.8	2571.1	1542.4	1381.3	1414.7	1344.7	1287.1	1254.7	1230.6	1224.3
47.5°	5327.3	4469.2	2382.7	1376.0	1305.9	1355.1	1315.3	1289.2	1271.4	1254.7	1247.4
50°	5716.6	4657.6	2205.9	1242.1	1238.0	1293.4	1312.2	1302.8	1292.4	1287.1	1280.8
52.5°	6143.6	4850.2	2057.3	1148.0	1178.2	1249.4	1313.2	1320.6	1320.6	1317.4	1313.2
55°	6432.4	4984.1	1906.5	1071.5	1117.6	1213.8	1311.2	1339.5	1349.9	1345.7	1341.5
57.5°	6645.8	5057.4	1717.2	1005.6	1066.3	1179.3	1299.7	1341.5	1352.0	1357.2	1355.1
60°	6689.8	4989.3	1469.1	936.5	1010.9	1129.1	1257.8	1310.1	1323.7	1356.2	1359.3
62.5°	6492.0	4780.1	1222.2	868.5	942.8	1052.7	1201.3	1274.5	1301.8	1352.0	1357.2
64°	6249.2	4545.7	1085.1	825.6	898.9	1009.8	1173.0	1265.1	1300.7	1367.7	1371.8
65°	6071.3	4375.1	999.4	798.4	870.6	981.5	1157.4	1268.2	1310.1	1391.8	1398.0
67.5°	5416.3	3788.0	826.7	734.6	803.7	933.4	1160.5	1294.5	1308.0	1401.2	1400.1
70°	4481.9	3015.8	692.7	676.0	738.7	894.7	1148.0	1252.6	1253.6	1315.3	1300.7
72.5°	3355.8	2228.9	600.6	615.3	666.6	802.6	1084.1	1196.1	1178.2	1186.7	1172.0
75°	2305.3	1474.4	517.0	550.4	591.2	709.5	994.1	1086.2	1057.9	1047.5	1037.0
77.5°	1230.6	815.2	430.1	486.6	513.8	613.2	867.5	956.5	927.1	886.3	872.7
80°	498.1	384.0	346.4	402.8	418.6	493.9	722.0	777.5	755.6	684.3	661.4
82.5°	250.1	230.2	272.1	317.1	318.2	352.6	536.8	589.1	539.9	453.1	433.2
85°	130.8	135.0	187.3	222.9	196.7	190.5	322.3	356.8	327.6	284.6	256.3
87.5°	47.1	54.4	98.4	97.3	69.0	36.6	71.1	34.6	18.8	11.5	14.6
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)