

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: P453228

Luminaire Tested: **GALN-SA4B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453228
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18668 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

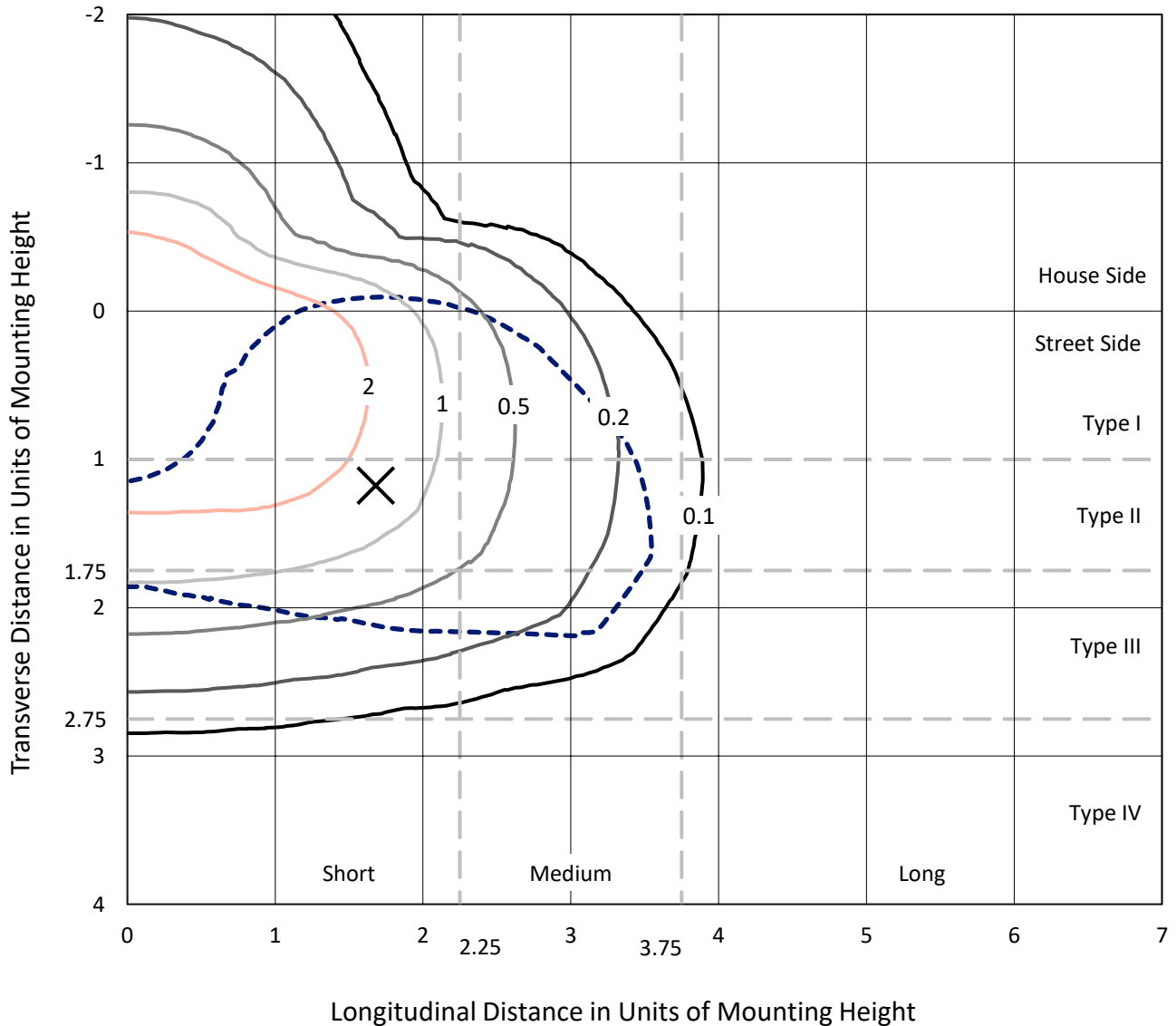
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

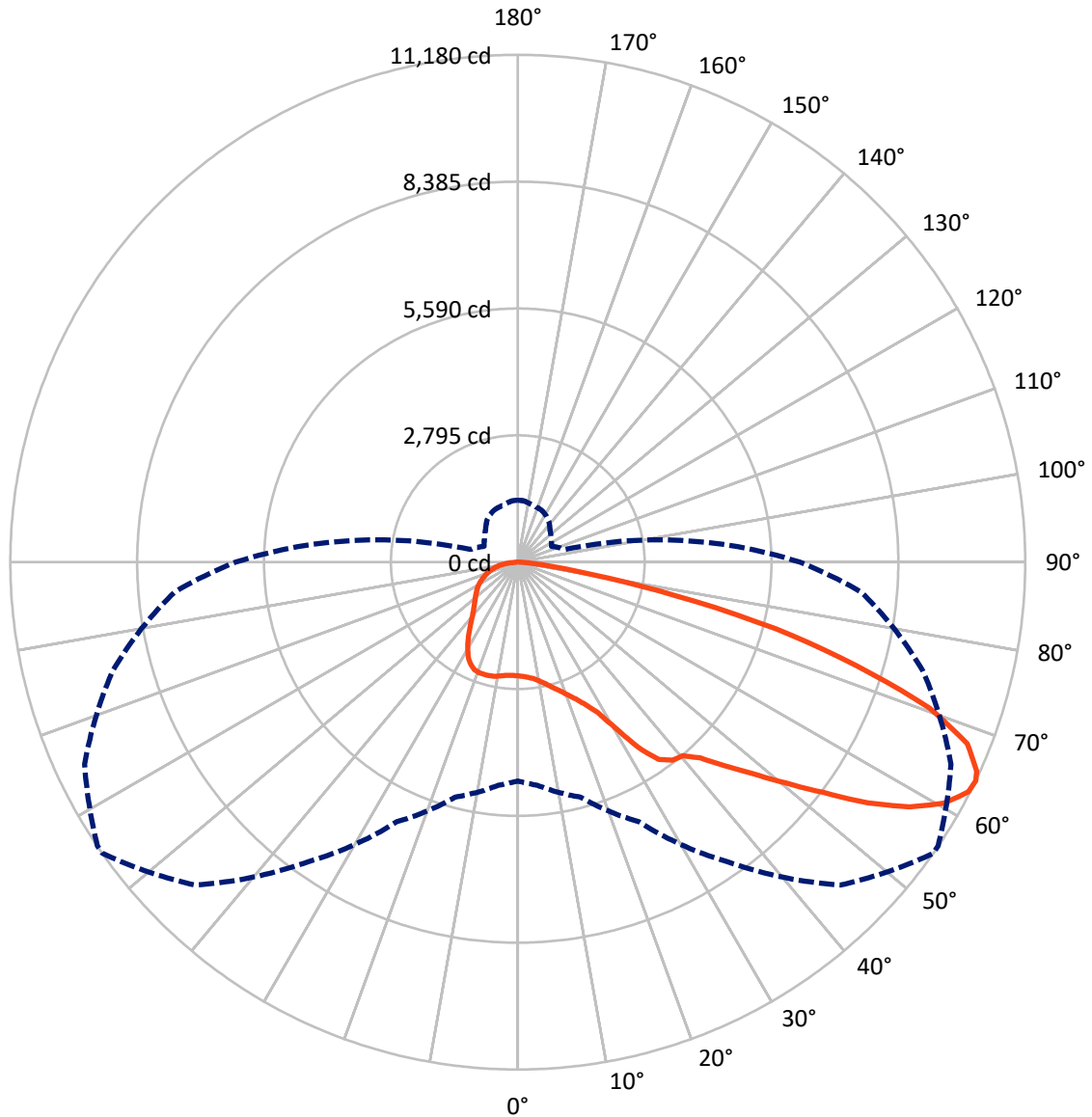
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	4534.8	0.0	4534.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14133.2	0.0	14133.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	18668.0	0.0	18668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.3
10°-20°	768.8	4.1
20°-30°	1368.6	7.3
30°-40°	2105.7	11.3
40°-50°	2985.0	16.0
50°-60°	4320.7	23.1
60°-70°	4471.5	24.0
70°-80°	2094.0	11.2
80°-90°	310.0	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°	18668.0	100.0
0°-180°	18668.0	100.0



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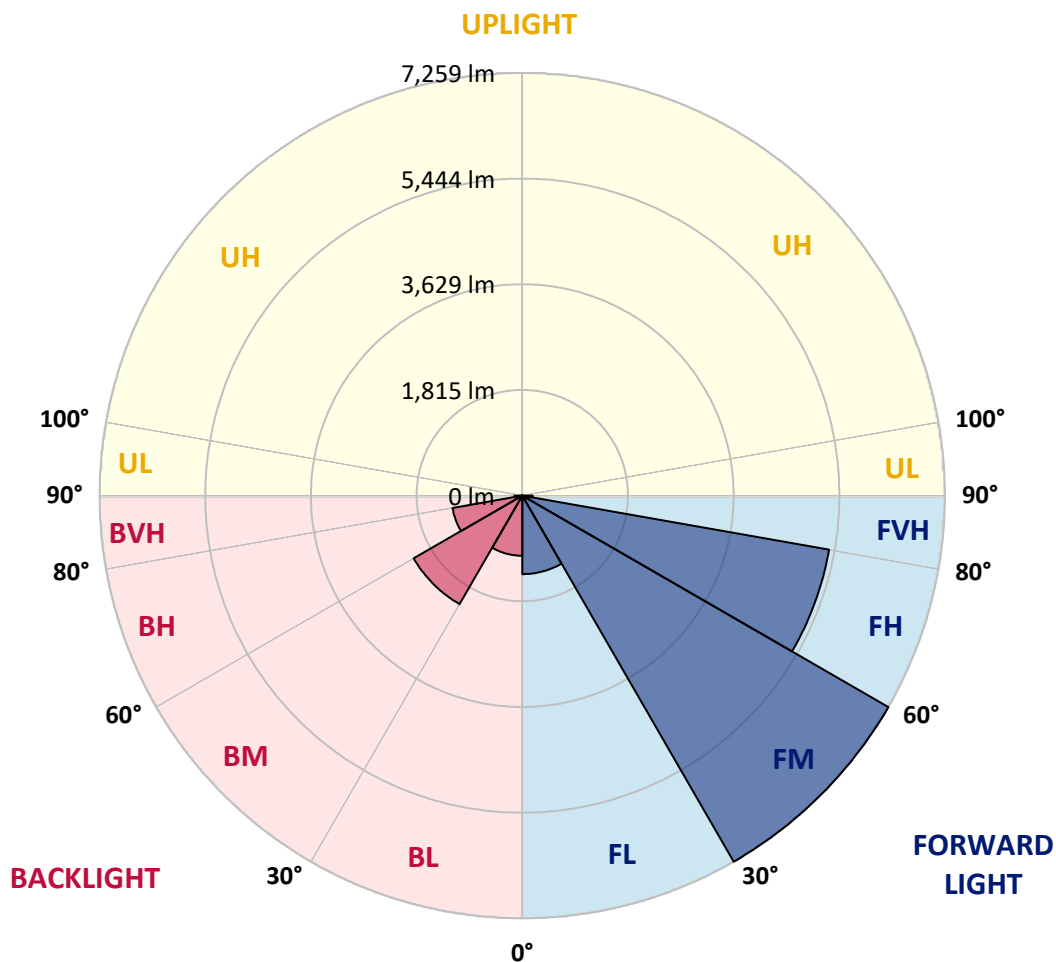
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.1	7.2			
FM (30°-60°)	7258.6	38.9			
FH (60°-80°)	5348.9	28.7			G3/7500
FVH (80°-90°)	177.5	1.0			G2/225
BL (0°-30°)	1032.9	5.5	B3/2500		
BM (30°-60°)	2152.9	11.5	B2/2500		
BH (60°-80°)	1216.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	132.5	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°	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7
2.5°	2532.8	2531.7	2534.9	2531.7	2533.8	2526.5	2523.4	2525.5	2522.4	2517.2	2507.8
5°	2564.0	2563.0	2564.0	2559.8	2561.9	2557.8	2550.5	2552.5	2547.3	2535.9	2522.4
7.5°	2617.1	2612.9	2612.9	2611.9	2607.7	2601.5	2596.3	2594.2	2589.0	2574.4	2553.6
10°	2685.7	2685.7	2686.8	2678.5	2683.7	2672.2	2667.0	2666.0	2648.3	2629.6	2600.4
12.5°	2776.3	2781.5	2778.4	2774.2	2772.1	2767.9	2750.3	2754.4	2734.7	2702.4	2667.0
15°	2888.7	2897.0	2891.8	2889.7	2884.5	2868.9	2861.6	2858.5	2832.5	2785.6	2738.8
17.5°	3037.5	3027.1	3022.9	3017.7	2995.8	2984.4	2971.9	2969.8	2946.9	2891.8	2818.9
20°	3167.5	3182.1	3173.8	3168.6	3146.7	3124.9	3115.5	3112.4	3092.6	3032.3	2915.7
22.5°	3322.6	3325.7	3328.8	3316.3	3305.9	3289.3	3272.6	3267.4	3260.1	3197.7	3055.2
25°	3488.0	3500.5	3490.1	3477.6	3465.1	3464.1	3479.7	3477.6	3474.5	3414.2	3240.4
27.5°	3757.5	3769.0	3772.1	3758.6	3710.7	3714.9	3750.3	3761.7	3809.6	3709.7	3478.7
30°	3909.5	3920.9	3946.9	3997.9	4073.9	4140.5	4225.8	4251.8	4297.6	4109.3	3761.7
32.5°	4003.1	4007.3	4054.1	4148.8	4376.7	4625.4	4857.4	4866.8	4895.9	4631.6	4020.8
35°	4150.9	4154.0	4191.5	4295.5	4563.0	4977.1	5336.1	5347.6	5323.6	4794.0	4141.5
37.5°	4333.0	4341.3	4365.2	4451.6	4771.1	5271.6	5534.9	5526.5	5314.3	4923.0	4354.8
40°	4598.3	4598.3	4570.2	4686.8	4990.6	5440.2	5604.6	5590.0	5533.8	5296.6	4679.5
42.5°	4832.5	4828.3	4894.9	4974.0	5265.3	5700.3	5897.0	5920.9	6013.5	5765.9	5048.9
45°	5137.4	5156.1	5193.5	5337.1	5732.6	6144.6	6398.5	6421.4	6552.5	6318.4	5480.7
47.5°	5445.4	5451.6	5569.2	5760.7	6311.1	6747.1	6955.3	6992.7	7112.4	6964.6	5945.9
50°	5663.9	5723.2	5911.5	6213.3	6907.4	7481.8	7644.1	7688.9	7900.1	7668.1	6488.0
52.5°	5894.9	5953.2	6183.1	6643.1	7592.1	8233.1	8432.9	8463.1	8682.6	8379.8	7042.7
55°	6092.6	6146.7	6407.9	7023.9	8137.4	9000.0	9362.1	9326.7	9431.8	8928.2	7470.3
57.5°	6124.9	6168.6	6497.4	7267.4	8547.3	9657.6	10176.9	10197.7	10076.0	9338.2	7823.1
60°	5875.1	5964.6	6342.4	7241.4	8731.5	10115.5	10784.6	10799.2	10453.7	9548.4	7963.6
62.5°	5432.9	5423.5	5880.3	6823.1	8473.5	10219.6	11142.6	11126.9	10601.5	9447.4	7827.3
64°	4822.1	4934.4	5361.1	6309.1	8057.2	10059.3	11180.0	11171.7	10530.7	9237.3	7595.2
65°	4449.5	4443.3	4864.7	5888.7	7643.1	9817.9	11113.4	11102.0	10382.9	9048.9	7415.2
67.5°	3212.3	3226.8	3643.1	4544.2	6213.3	8874.1	10679.5	10636.8	9800.2	8424.6	6730.5
70°	1945.9	1954.2	2281.0	3014.6	4459.9	7173.8	9626.4	9628.5	8908.4	7492.2	5728.4
72.5°	1025.0	1046.8	1177.9	1711.8	2708.6	5033.3	7809.6	7994.8	7648.3	6394.4	4525.5
75°	570.2	573.4	666.0	843.9	1381.9	2816.9	5869.9	5923.0	6055.1	5146.7	3346.5
77.5°	435.0	441.2	470.3	545.3	752.3	1305.9	3552.5	3818.9	4267.4	3628.5	1909.5
80°	352.8	359.0	384.0	428.7	500.5	619.1	1650.4	1794.0	2284.1	1610.8	745.1
82.5°	274.7	270.6	302.8	331.9	364.2	366.3	677.4	749.2	930.3	693.0	322.6
85°	204.0	204.0	230.0	223.7	235.2	214.4	298.6	329.9	372.5	294.5	149.8
87.5°	81.2	89.5	150.9	135.3	105.1	84.3	110.3	116.5	129.0	115.5	62.4
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°	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7	2504.7
2.5°	2508.8	2512.0	2504.7	2499.5	2497.4	2494.3	2491.2	2492.2	2496.4	2500.5	2499.5
5°	2521.3	2522.4	2509.9	2503.6	2499.5	2495.3	2495.3	2498.4	2506.8	2513.0	2513.0
7.5°	2552.5	2552.5	2534.9	2523.4	2517.2	2509.9	2507.8	2508.8	2515.1	2523.4	2524.5
10°	2601.5	2597.3	2574.4	2556.7	2545.3	2527.6	2512.0	2503.6	2506.8	2512.0	2512.0
12.5°	2660.8	2649.3	2620.2	2596.3	2568.2	2534.9	2502.6	2486.0	2484.9	2490.1	2488.0
15°	2724.2	2711.8	2671.2	2627.5	2578.6	2529.7	2491.2	2467.2	2448.5	2443.3	2454.7
17.5°	2798.1	2772.1	2715.9	2655.6	2582.7	2519.3	2458.9	2410.0	2376.7	2367.3	2370.4
20°	2887.6	2853.3	2777.3	2682.6	2579.6	2481.8	2388.1	2322.6	2268.5	2251.8	2253.9
22.5°	3011.4	2952.1	2840.8	2696.1	2553.6	2411.0	2281.0	2195.6	2130.1	2104.1	2119.7
25°	3151.9	3087.4	2901.1	2693.0	2486.0	2297.6	2154.0	2042.7	1983.4	1944.8	1953.2
27.5°	3345.5	3231.0	2965.7	2664.9	2389.2	2159.2	1992.7	1887.6	1833.5	1813.7	1823.1
30°	3593.1	3417.3	3035.4	2589.0	2236.2	1984.4	1830.4	1761.7	1729.4	1704.5	1712.8
32.5°	3772.1	3548.4	3051.0	2461.0	2070.8	1825.2	1720.1	1669.1	1633.7	1609.8	1615.0
35°	3900.1	3659.7	3043.7	2303.8	1898.0	1694.1	1632.7	1591.1	1533.8	1481.8	1472.4
37.5°	4071.8	3799.2	2990.6	2132.2	1727.4	1605.6	1561.9	1484.9	1402.7	1333.0	1329.9
40°	4335.1	3962.5	2877.2	1930.3	1581.7	1540.1	1487.0	1387.1	1298.6	1242.5	1238.3
42.5°	4606.7	4113.4	2723.2	1718.0	1462.0	1471.4	1406.9	1308.0	1253.9	1217.5	1213.3
45°	4938.6	4276.8	2556.7	1533.8	1373.6	1406.9	1337.1	1279.9	1247.7	1223.7	1217.5
47.5°	5297.6	4444.3	2369.4	1368.4	1298.6	1347.6	1308.0	1282.0	1264.3	1247.7	1240.4
50°	5684.7	4631.6	2193.5	1235.2	1231.0	1286.2	1304.9	1295.5	1285.1	1279.9	1273.7
52.5°	6109.3	4823.1	2045.8	1141.5	1171.7	1242.5	1305.9	1313.2	1313.2	1310.1	1305.9
55°	6396.5	4956.3	1895.9	1065.6	1111.3	1207.1	1303.8	1331.9	1342.4	1338.2	1334.0
57.5°	6608.7	5029.1	1707.6	1000.0	1060.4	1172.7	1292.4	1334.0	1344.4	1349.6	1347.6
60°	6652.4	4961.5	1461.0	931.3	1005.2	1122.8	1250.8	1302.8	1316.3	1348.6	1351.7
62.5°	6455.8	4753.4	1215.4	863.7	937.6	1046.8	1194.6	1267.4	1294.5	1344.4	1349.6
64°	6214.4	4520.3	1079.1	821.0	893.9	1004.2	1166.5	1258.1	1293.4	1360.0	1364.2
65°	6037.5	4350.7	993.8	794.0	865.8	976.1	1150.9	1261.2	1302.8	1384.0	1390.2
67.5°	5386.1	3766.9	822.1	730.5	799.2	928.2	1154.0	1287.2	1300.7	1393.3	1392.3
70°	4456.8	2999.0	688.9	672.2	734.7	889.7	1141.5	1245.6	1246.6	1308.0	1293.4
72.5°	3337.1	2216.4	597.3	611.9	662.9	798.1	1078.0	1189.4	1171.7	1180.0	1165.5
75°	2292.4	1466.2	514.0	547.3	587.9	705.5	988.6	1080.1	1052.0	1041.6	1031.2
77.5°	1223.7	810.6	427.7	483.9	510.9	609.8	862.6	951.1	922.0	881.4	867.8
80°	495.3	381.9	344.4	400.6	416.2	491.2	718.0	773.2	751.3	680.5	657.6
82.5°	248.7	228.9	270.6	315.3	316.3	350.7	533.8	585.8	536.9	450.6	430.8
85°	130.1	134.2	186.3	221.6	195.6	189.4	320.5	354.8	325.7	283.0	254.9
87.5°	46.8	54.1	97.8	96.8	68.7	36.4	70.8	34.3	18.7	11.4	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)