

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: P453257

Luminaire Tested: **GALN-SA4B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453257
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-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20329 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

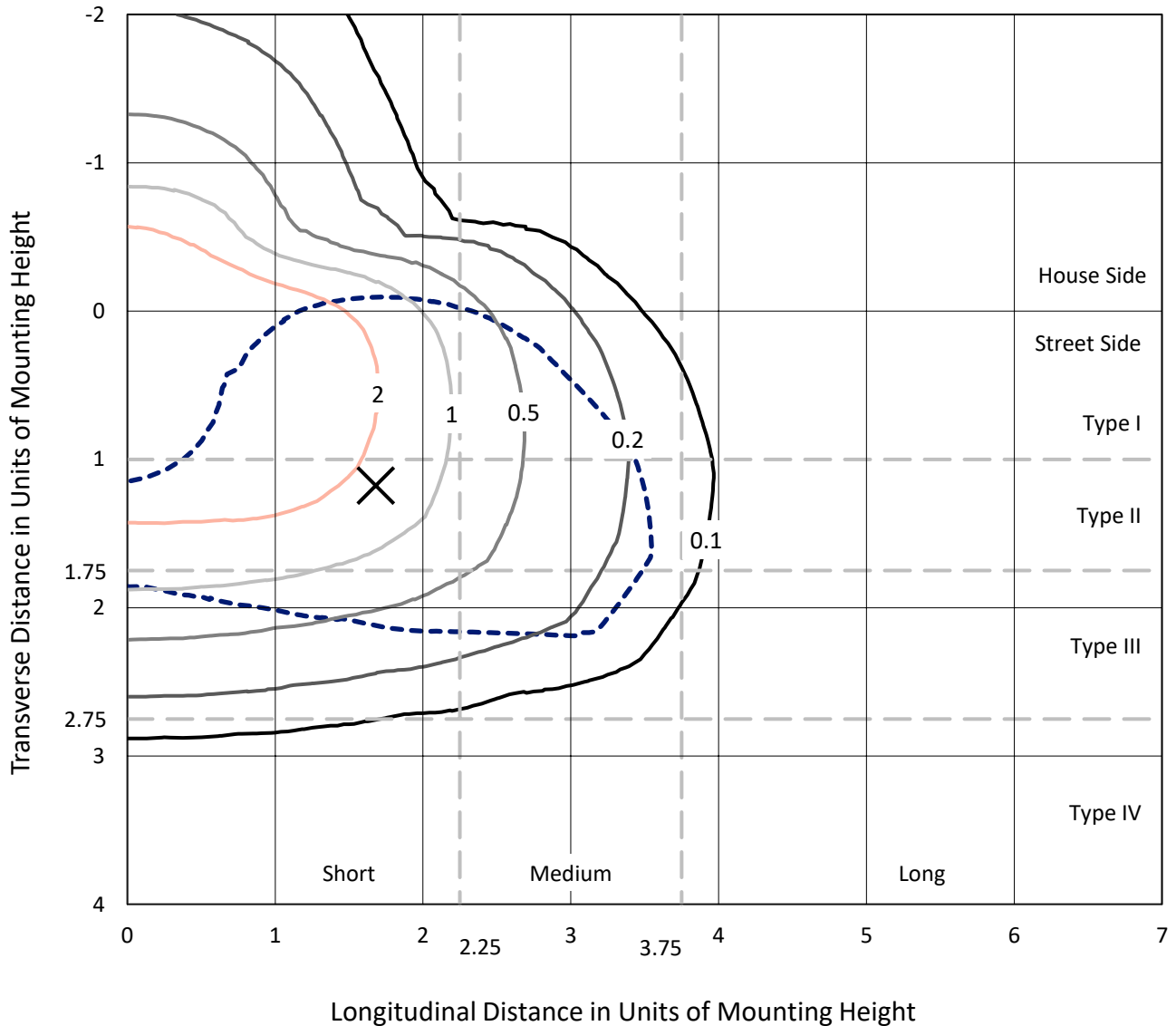
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453257
 CATALOG NUMBER: GALN-SA4B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

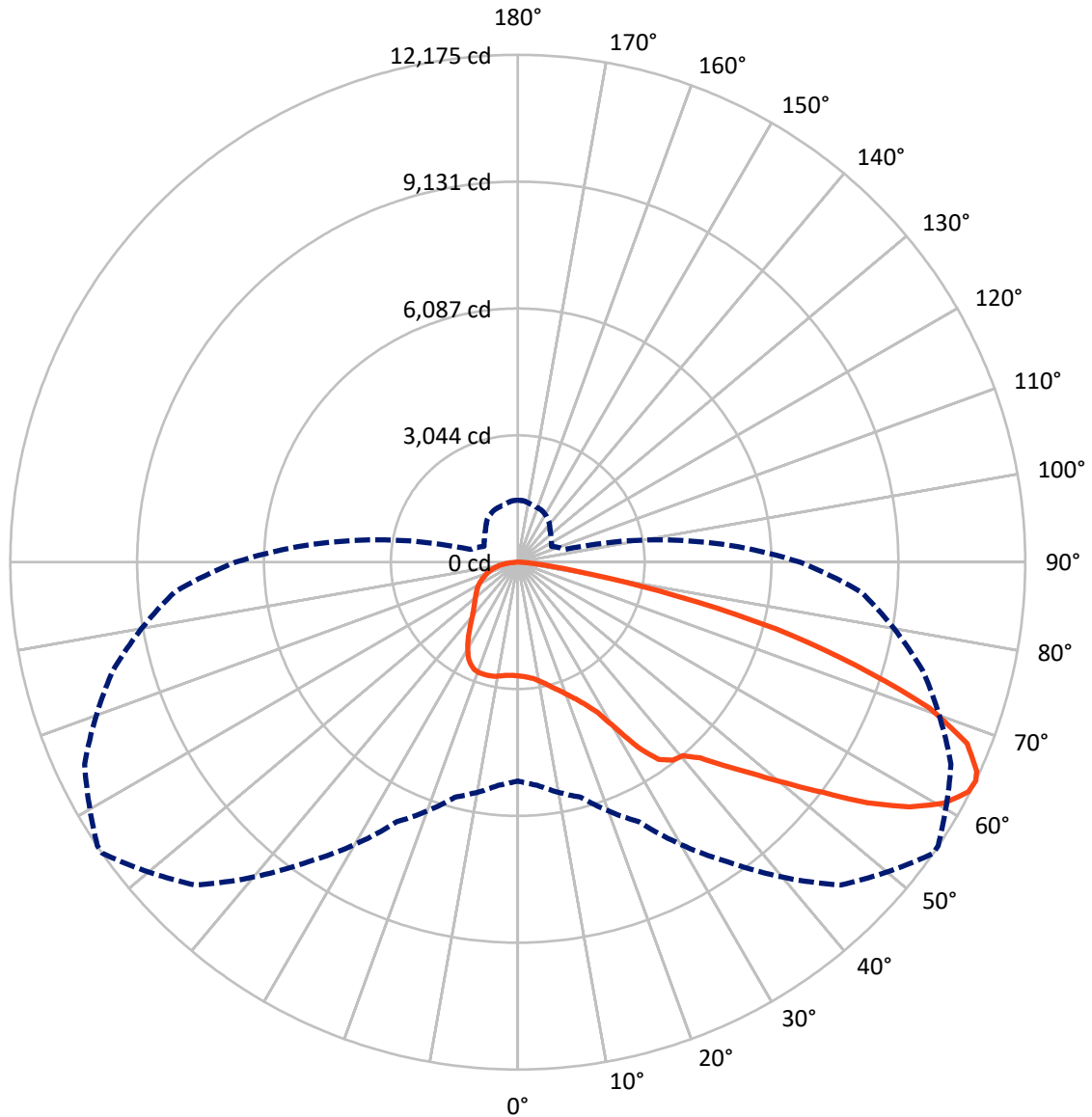
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

REPORT NUMBER: P453257
CATALOG NUMBER: GALN-SA4B-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453257

CATALOG NUMBER: GALN-SA4B-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4938.3	0.0	4938.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	15390.7	0.0	15390.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	20329.0	0.0	20329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	1.3
10°-20°	837.2	4.1
20°-30°	1490.4	7.3
30°-40°	2293.1	11.3
40°-50°	3250.6	16.0
50°-60°	4705.2	23.1
60°-70°	4869.4	24.0
70°-80°	2280.3	11.2
80°-90°	337.6	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°	20329.0	100.0
0°-180°	20329.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453257

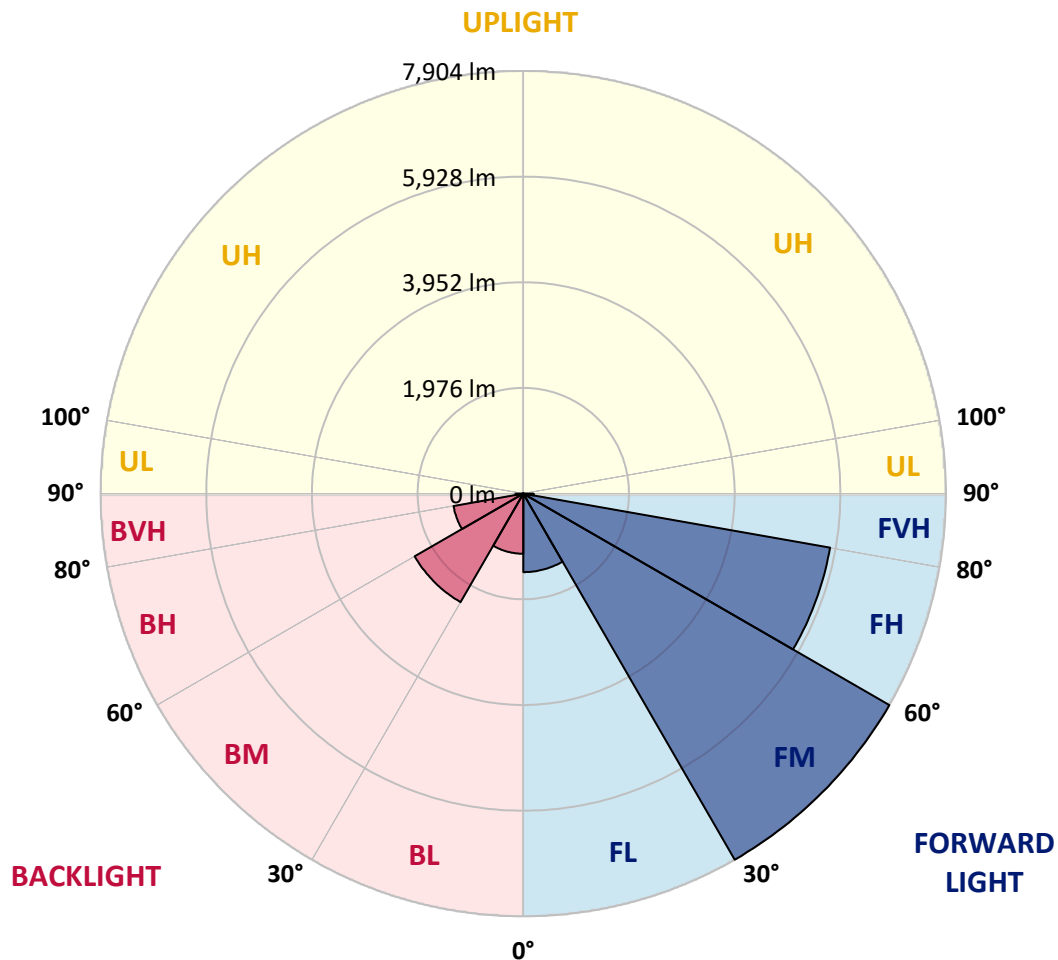
CATALOG NUMBER: GALN-SA4B-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.1	7.2			
FM	(30°-60°)	7904.5	38.9			
FH	(60°-80°)	5824.9	28.7			G3/7500
FVH	(80°-90°)	193.3	1.0			G2/225
BL	(0°-30°)	1124.8	5.5	B3/2500		
BM	(30°-60°)	2344.4	11.5	B2/2500		
BH	(60°-80°)	1324.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	144.3	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





REPORT NUMBER: P453257

CATALOG NUMBER: GALN-SA4B-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5
2.5°	2758.1	2757.0	2760.4	2757.0	2759.3	2751.3	2747.9	2750.2	2746.8	2741.1	2730.9
5°	2792.1	2791.0	2792.1	2787.6	2789.9	2785.3	2777.4	2779.7	2774.0	2761.5	2746.8
7.5°	2849.9	2845.4	2845.4	2844.3	2839.7	2832.9	2827.3	2825.0	2819.3	2803.5	2780.8
10°	2924.7	2924.7	2925.8	2916.8	2922.4	2910.0	2904.3	2903.2	2883.9	2863.5	2831.8
12.5°	3023.3	3029.0	3025.6	3021.0	3018.8	3014.2	2995.0	2999.5	2978.0	2942.8	2904.3
15°	3145.7	3154.7	3149.1	3146.8	3141.1	3124.1	3116.2	3112.8	3084.5	3033.5	2982.5
17.5°	3307.7	3296.4	3291.9	3286.2	3262.4	3249.9	3236.3	3234.1	3209.1	3149.1	3069.8
20°	3449.4	3465.2	3456.2	3450.5	3426.7	3402.9	3392.7	3389.3	3367.8	3302.1	3175.1
22.5°	3618.2	3621.6	3625.0	3611.4	3600.1	3581.9	3563.8	3558.2	3550.2	3482.2	3327.0
25°	3798.4	3812.0	3800.6	3787.1	3773.5	3772.3	3789.3	3787.1	3783.7	3717.9	3528.7
27.5°	4091.9	4104.3	4107.7	4093.0	4040.9	4045.4	4083.9	4096.4	4148.5	4039.7	3788.2
30°	4257.3	4269.8	4298.1	4353.6	4436.4	4508.9	4601.8	4630.1	4680.0	4474.9	4096.4
32.5°	4359.3	4363.8	4414.8	4517.9	4766.1	5036.9	5289.6	5299.8	5331.6	5043.7	4378.6
35°	4520.2	4523.6	4564.4	4677.7	4968.9	5419.9	5810.9	5823.4	5797.3	5220.5	4510.0
37.5°	4718.5	4727.6	4753.6	4847.7	5195.6	5740.6	6027.3	6018.3	5787.1	5361.0	4742.3
40°	5007.5	5007.5	4976.9	5103.8	5434.7	5924.2	6103.2	6087.4	6026.2	5767.8	5095.9
42.5°	5262.4	5257.9	5330.4	5416.5	5733.8	6207.5	6421.7	6447.7	6548.6	6278.9	5498.1
45°	5594.5	5614.9	5655.6	5812.0	6242.6	6691.4	6967.9	6992.8	7135.6	6880.6	5968.4
47.5°	5929.9	5936.7	6064.7	6273.2	6872.7	7347.5	7574.1	7614.9	7745.2	7584.3	6474.9
50°	6167.8	6232.4	6437.5	6766.2	7522.0	8147.5	8324.3	8373.0	8603.0	8350.3	7065.3
52.5°	6419.4	6482.9	6733.3	7234.2	8267.6	8965.6	9183.2	9216.1	9455.2	9125.4	7669.3
55°	6634.7	6693.6	6978.1	7648.9	8861.4	9800.8	10195.1	10156.6	10271.0	9722.6	8135.0
57.5°	6669.8	6717.4	7075.5	7914.1	9307.9	10516.9	11082.4	11105.1	10972.5	10169.1	8519.2
60°	6397.9	6495.3	6906.7	7885.7	9508.4	11015.5	11744.2	11760.0	11383.8	10398.0	8672.1
62.5°	5916.3	5906.1	6403.5	7430.2	9227.4	11128.9	12134.0	12117.0	11544.7	10288.0	8523.7
64°	5251.1	5373.5	5838.1	6870.4	8774.1	10954.3	12174.8	12165.7	11467.7	10059.1	8271.0
65°	4845.4	4838.6	5297.6	6412.6	8323.1	10691.5	12102.2	12089.8	11306.8	9854.0	8075.0
67.5°	3498.1	3514.0	3967.2	4948.5	6766.2	9663.7	11629.7	11583.3	10672.2	9174.1	7329.3
70°	2119.0	2128.1	2483.9	3282.8	4856.8	7812.1	10482.9	10485.2	9701.1	8158.8	6238.1
72.5°	1116.2	1140.0	1282.7	1864.1	2949.6	5481.1	8504.4	8706.1	8328.8	6963.3	4928.2
75°	621.0	624.4	725.2	919.0	1504.8	3067.5	6392.2	6450.0	6593.9	5604.7	3644.3
77.5°	473.7	480.5	512.2	593.8	819.3	1422.1	3868.6	4158.7	4647.1	3951.4	2079.4
80°	384.1	390.9	418.1	466.9	545.1	674.2	1797.2	1953.6	2487.3	1754.1	811.3
82.5°	299.2	294.6	329.8	361.5	396.6	398.9	737.7	815.9	1013.1	754.7	351.3
85°	222.1	222.1	250.4	243.6	256.1	233.4	325.2	359.2	405.7	320.7	163.2
87.5°	88.4	97.5	164.3	147.3	114.5	91.8	120.1	126.9	140.5	125.8	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453257
 CATALOG NUMBER: GALN-SA4B-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5	2727.5
2.5°	2732.1	2735.5	2727.5	2721.9	2719.6	2716.2	2712.8	2713.9	2718.5	2723.0	2721.9
5°	2745.7	2746.8	2733.2	2726.4	2721.9	2717.3	2717.3	2720.7	2729.8	2736.6	2736.6
7.5°	2779.7	2779.7	2760.4	2747.9	2741.1	2733.2	2730.9	2732.1	2738.9	2747.9	2749.1
10°	2832.9	2828.4	2803.5	2784.2	2771.7	2752.5	2735.5	2726.4	2729.8	2735.5	2735.5
12.5°	2897.5	2885.0	2853.3	2827.3	2796.7	2760.4	2725.3	2707.1	2706.0	2711.7	2709.4
15°	2966.6	2953.0	2908.8	2861.3	2808.0	2754.7	2712.8	2686.7	2666.3	2660.7	2673.1
17.5°	3047.1	3018.8	2957.6	2891.8	2812.5	2743.4	2677.7	2624.4	2588.2	2578.0	2581.4
20°	3144.5	3107.1	3024.4	2921.3	2809.1	2702.6	2600.6	2529.2	2470.3	2452.2	2454.4
22.5°	3279.4	3214.8	3093.6	2936.0	2780.8	2625.6	2483.9	2391.0	2319.6	2291.3	2308.3
25°	3432.4	3362.1	3159.3	2932.6	2707.1	2502.0	2345.7	2224.4	2159.8	2117.9	2127.0
27.5°	3643.1	3518.5	3229.5	2902.0	2601.8	2351.3	2170.0	2055.6	1996.6	1975.1	1985.3
30°	3912.8	3721.3	3305.5	2819.3	2435.2	2161.0	1993.2	1918.5	1883.3	1856.1	1865.2
32.5°	4107.7	3864.1	3322.5	2679.9	2255.0	1987.6	1873.1	1817.6	1779.1	1753.0	1758.7
35°	4247.1	3985.4	3314.5	2508.8	2066.9	1844.8	1777.9	1732.6	1670.3	1613.6	1603.4
37.5°	4434.1	4137.2	3256.7	2321.9	1881.1	1748.5	1700.9	1617.0	1527.5	1451.6	1448.2
40°	4720.8	4315.1	3133.2	2102.0	1722.4	1677.1	1619.3	1510.5	1414.2	1353.0	1348.5
42.5°	5016.5	4479.4	2965.5	1870.9	1592.1	1602.3	1532.0	1424.4	1365.5	1325.8	1321.3
45°	5378.0	4657.3	2784.2	1670.3	1495.8	1532.0	1456.1	1393.8	1358.7	1332.6	1325.8
47.5°	5769.0	4839.8	2580.2	1490.1	1414.2	1467.5	1424.4	1396.1	1376.8	1358.7	1350.7
50°	6190.5	5043.7	2388.7	1345.1	1340.5	1400.6	1421.0	1410.8	1399.5	1393.8	1387.0
52.5°	6652.8	5252.2	2227.8	1243.1	1275.9	1353.0	1422.1	1430.1	1430.1	1426.7	1422.1
55°	6965.6	5397.3	2064.6	1160.4	1210.2	1314.5	1419.9	1450.5	1461.8	1457.3	1452.7
57.5°	7196.8	5476.6	1859.5	1089.0	1154.7	1277.1	1407.4	1452.7	1464.1	1469.7	1467.5
60°	7244.4	5403.0	1591.0	1014.2	1094.6	1222.7	1362.1	1418.7	1433.5	1468.6	1472.0
62.5°	7030.2	5176.3	1323.5	940.5	1021.0	1140.0	1300.9	1380.2	1409.7	1464.1	1469.7
64°	6767.3	4922.5	1175.1	894.1	973.4	1093.5	1270.3	1370.0	1408.5	1481.1	1485.6
65°	6574.6	4737.8	1082.2	864.6	942.8	1062.9	1253.3	1373.4	1418.7	1507.1	1513.9
67.5°	5865.3	4102.1	895.2	795.5	870.3	1010.8	1256.7	1401.7	1416.5	1517.3	1516.2
70°	4853.4	3265.8	750.2	732.0	800.0	968.9	1243.1	1356.4	1357.5	1424.4	1408.5
72.5°	3634.1	2413.7	650.4	666.3	721.8	869.1	1174.0	1295.2	1275.9	1285.0	1269.1
75°	2496.4	1596.6	559.8	596.0	640.2	768.3	1076.5	1176.2	1145.6	1134.3	1123.0
77.5°	1332.6	882.7	465.7	526.9	556.4	664.0	939.4	1035.7	1004.0	959.8	945.1
80°	539.4	415.9	375.1	436.3	453.3	534.9	781.9	841.9	818.1	741.1	716.2
82.5°	270.8	249.3	294.6	343.4	344.5	381.9	581.3	638.0	584.7	490.7	469.1
85°	141.6	146.2	202.8	241.4	213.0	206.2	349.0	386.4	354.7	308.2	277.6
87.5°	51.0	58.9	106.5	105.4	74.8	39.7	77.1	37.4	20.4	12.5	15.9
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)