

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: P452331

Luminaire Tested: **GALN-SA3B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15831 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

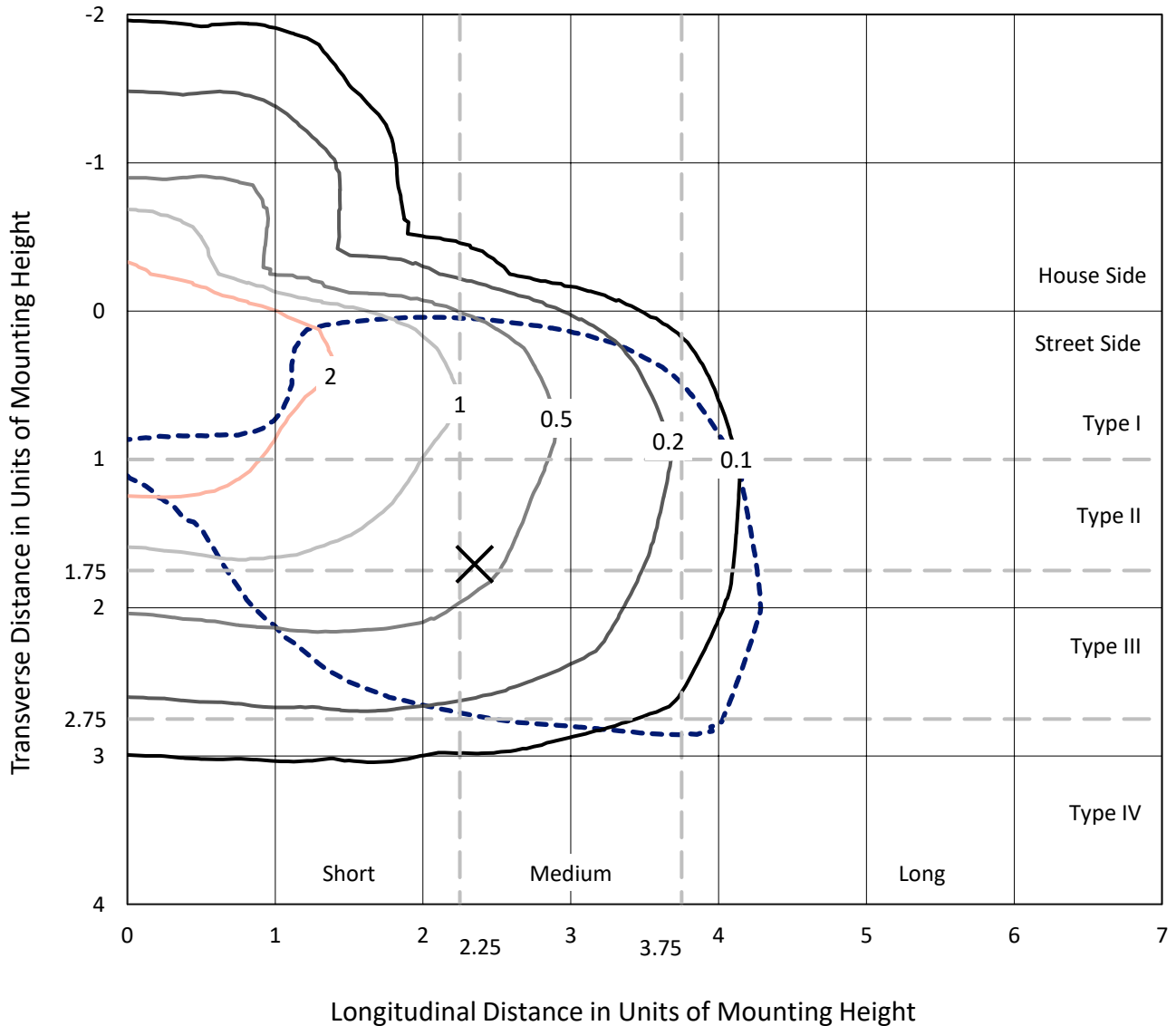
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452331
 CATALOG NUMBER: GALN-SA3B-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

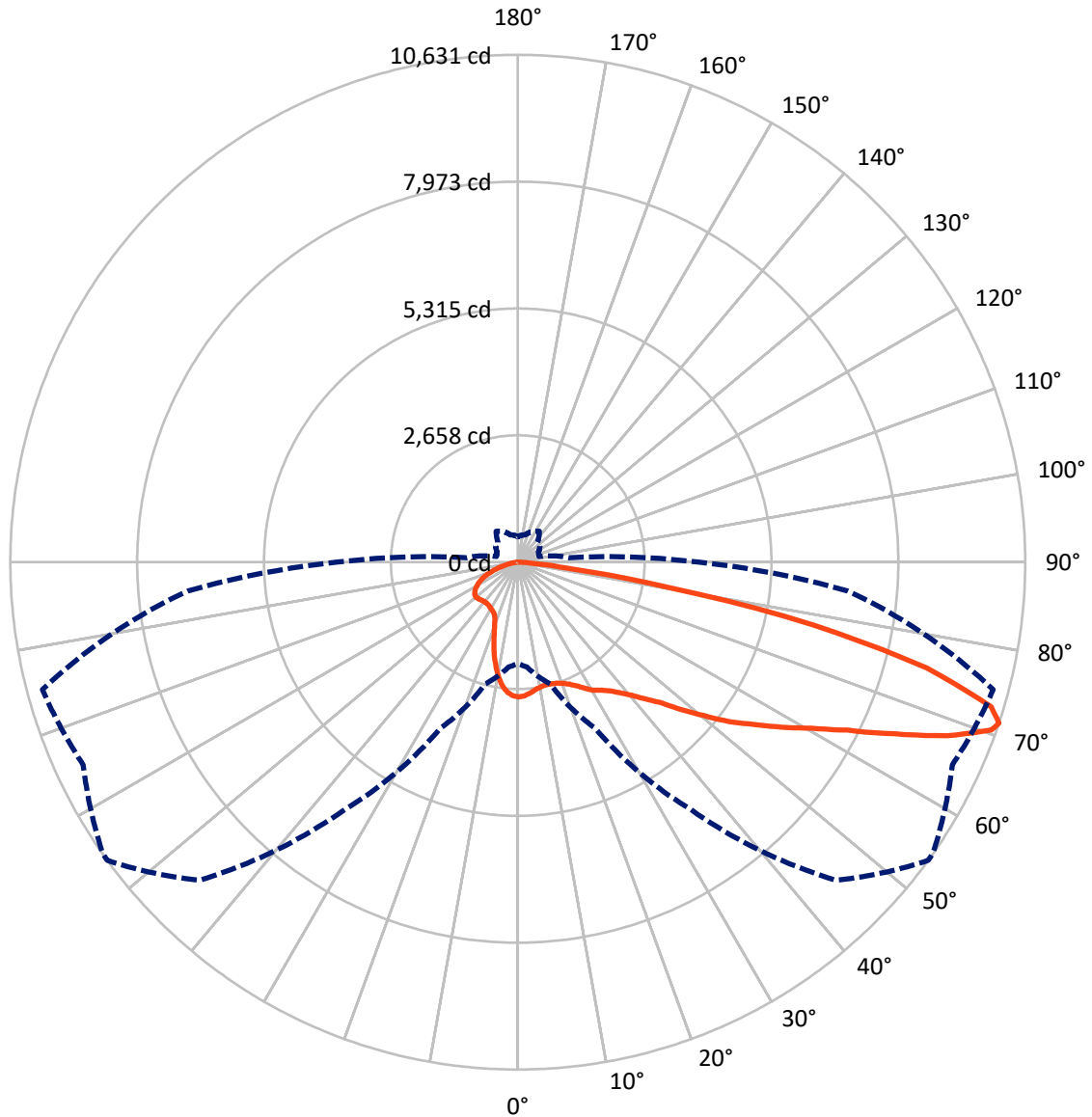
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P452331
CATALOG NUMBER: GALN-SA3B-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452331

CATALOG NUMBER: GALN-SA3B-730-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.2	0.0	2858.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12972.8	0.0	12972.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	15831.0	0.0	15831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.6
10°-20°	664.6	4.2
20°-30°	1106.6	7.0
30°-40°	1636.3	10.3
40°-50°	2304.8	14.6
50°-60°	3086.3	19.5
60°-70°	3890.0	24.6
70°-80°	2656.9	16.8
80°-90°	233.7	1.5
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°	15831.0	100.0
0°-180°	15831.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452331

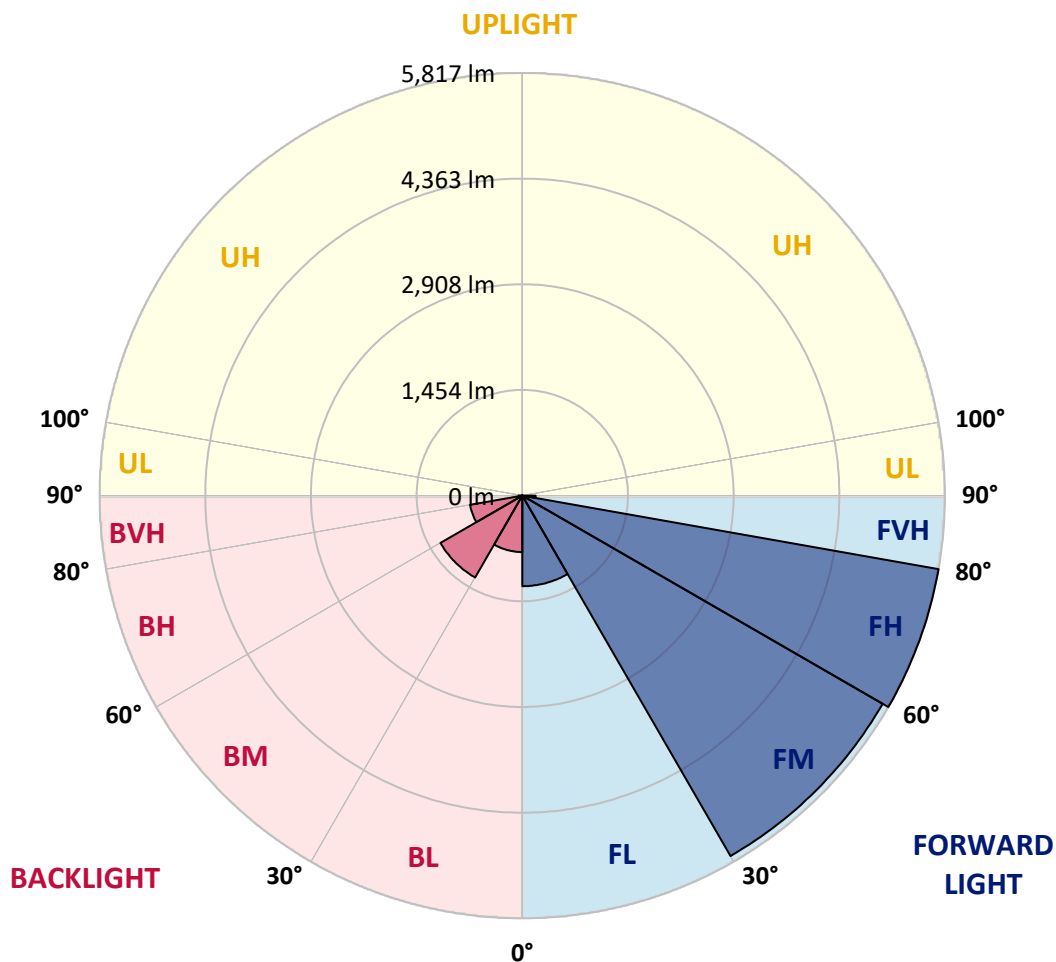
CATALOG NUMBER: GALN-SA3B-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.2	7.9			
FM	(30°-60°)	5727.1	36.2			
FH	(60°-80°)	5816.9	36.7			G3/7500
FVH	(80°-90°)	182.6	1.2			G2/225
BL	(0°-30°)	776.8	4.9	B2/1000		
BM	(30°-60°)	1300.4	8.2	B2/2500		
BH	(60°-80°)	730.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	51.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





REPORT NUMBER: P452331

CATALOG NUMBER: GALN-SA3B-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5
2.5°	2728.7	2741.5	2745.0	2753.5	2771.5	2786.0	2800.5	2798.8	2819.4	2827.9	2835.6
5°	2607.3	2610.7	2623.5	2640.6	2672.3	2712.5	2751.8	2752.7	2803.1	2843.3	2863.0
7.5°	2518.3	2529.5	2538.0	2556.0	2589.3	2632.9	2695.4	2700.5	2790.3	2869.8	2911.7
10°	2460.2	2473.0	2482.4	2504.7	2538.0	2586.8	2654.3	2663.7	2780.9	2911.7	2985.2
12.5°	2407.2	2420.0	2428.6	2457.6	2501.2	2561.1	2637.2	2648.3	2784.3	2960.5	3065.6
15°	2439.7	2449.9	2446.5	2455.1	2484.1	2552.6	2644.1	2655.2	2797.1	3007.5	3145.2
17.5°	2584.2	2592.7	2564.5	2532.0	2518.3	2568.8	2665.4	2677.4	2822.8	3056.2	3226.4
20°	2797.1	2820.2	2758.6	2686.0	2620.1	2627.0	2709.9	2722.7	2858.7	3105.0	3309.3
22.5°	3074.2	3091.3	3016.0	2896.3	2774.9	2712.5	2776.6	2784.3	2912.6	3168.2	3400.0
25°	3400.0	3410.2	3305.9	3152.0	2976.7	2858.7	2868.1	2881.8	3001.5	3240.1	3480.4
27.5°	3716.4	3748.9	3628.3	3440.2	3209.3	3012.6	2993.8	3002.4	3098.1	3280.3	3536.0
30°	4091.8	4089.2	3961.8	3743.7	3447.9	3180.2	3112.7	3111.0	3150.3	3299.9	3576.1
32.5°	4391.1	4426.1	4301.3	4063.6	3720.7	3353.8	3194.8	3191.3	3190.5	3334.1	3636.0
35°	4731.4	4736.5	4622.0	4382.5	4015.7	3571.9	3309.3	3292.2	3272.6	3407.7	3717.2
37.5°	5035.8	5059.8	4954.6	4686.1	4305.6	3798.5	3466.7	3455.6	3395.7	3535.1	3847.2
40°	5273.6	5291.5	5228.2	4972.6	4591.2	4043.0	3666.8	3646.3	3573.6	3743.7	4020.8
42.5°	5351.4	5388.2	5413.0	5287.3	4919.5	4332.9	3913.1	3887.4	3831.8	4060.1	4220.9
45°	5357.4	5415.5	5546.4	5552.3	5249.6	4680.1	4200.4	4182.4	4178.2	4465.5	4502.2
47.5°	5312.0	5371.1	5590.8	5709.7	5543.8	5030.7	4615.1	4586.9	4589.5	4966.6	4817.8
50°	5202.6	5272.7	5539.5	5810.6	5773.8	5395.0	5052.9	5043.5	5096.6	5538.7	5145.3
52.5°	4996.5	5081.2	5486.5	5873.9	5944.8	5708.8	5550.6	5524.1	5658.4	6159.5	5503.6
55°	4426.1	4553.6	5292.4	5908.9	6107.3	6009.0	5998.7	6046.6	6224.5	6836.7	5897.8
57.5°	4128.6	4224.3	4870.8	5914.9	6312.5	6357.9	6522.1	6534.0	6845.3	7555.9	6343.3
60°	3966.1	4050.7	4639.9	5875.6	6599.0	6789.7	7057.4	7100.1	7451.6	8334.9	6805.1
62.5°	3824.1	3896.8	4501.4	5739.6	6922.3	7430.2	7750.9	7771.4	8140.0	9195.2	7260.9
65°	3489.8	3572.7	4222.6	5603.6	7201.0	8230.6	8671.0	8647.0	8872.8	9937.4	7546.5
67.5°	3039.1	3144.3	3701.8	5134.2	7338.7	9105.4	9707.4	9677.5	9596.2	10424.0	7628.6
70°	2463.6	2520.1	3035.7	4322.7	6788.9	9564.6	10525.8	10494.1	10044.3	10488.1	7240.4
71°	2119.9	2207.9	2643.2	3839.5	6331.4	9424.4	10630.9	10622.4	10045.2	10311.1	6947.9
72.5°	1654.7	1708.5	2093.4	2975.0	5381.3	8627.4	10371.0	10403.5	9827.1	9819.4	6345.0
75°	1046.7	1070.6	1313.5	1751.3	2952.8	6109.9	8853.1	8941.2	8725.7	8037.3	4718.6
77.5°	608.0	638.8	786.7	1032.1	1275.8	3316.2	6334.8	6430.6	6062.9	4425.3	1931.7
80°	354.0	388.2	518.2	599.4	585.8	1230.5	3225.5	3388.9	2625.2	1117.7	542.2
82.5°	196.7	219.8	364.3	365.1	312.1	401.9	1015.0	1062.1	749.1	450.7	221.5
85°	142.8	161.6	235.2	212.9	149.6	172.7	353.2	370.3	302.7	189.8	71.8
87.5°	50.5	71.8	129.1	102.6	41.0	35.9	101.8	82.9	77.0	53.0	16.2
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: P452331
 CATALOG NUMBER: GALN-SA3B-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5	2824.5
2.5°	2839.9	2841.6	2833.0	2817.6	2802.3	2782.6	2760.4	2743.2	2735.6	2734.7	2733.8
5°	2870.7	2874.9	2842.4	2794.6	2741.5	2676.5	2621.0	2557.7	2541.4	2515.8	2523.5
7.5°	2920.3	2917.7	2853.6	2751.8	2627.8	2490.1	2373.8	2306.3	2236.2	2216.5	2217.3
10°	2991.2	2975.0	2853.6	2664.6	2457.6	2253.3	2090.8	1988.2	1932.6	1886.4	1869.3
12.5°	3066.5	3025.4	2826.2	2542.3	2238.7	1988.2	1813.7	1675.2	1639.3	1601.7	1602.5
15°	3138.3	3069.9	2772.3	2370.4	2002.7	1705.1	1535.8	1452.9	1441.7	1446.0	1445.2
17.5°	3203.3	3101.5	2690.2	2178.9	1727.4	1462.3	1372.5	1378.5	1408.4	1429.8	1432.3
20°	3269.2	3120.4	2567.9	1922.3	1467.4	1315.2	1318.6	1365.6	1411.0	1440.0	1444.3
22.5°	3331.6	3128.9	2424.3	1674.3	1279.3	1252.8	1303.2	1353.7	1398.1	1426.4	1430.6
25°	3372.6	3109.2	2220.8	1415.2	1186.9	1230.5	1283.5	1326.3	1363.9	1393.0	1399.8
27.5°	3383.7	3046.0	1968.5	1205.7	1144.2	1209.1	1257.9	1289.5	1318.6	1346.0	1351.1
30°	3377.8	2952.8	1691.4	1082.6	1119.4	1184.4	1222.0	1245.1	1280.1	1301.5	1305.8
32.5°	3368.3	2844.2	1402.4	1016.7	1098.8	1161.3	1183.5	1204.0	1203.2	1194.6	1200.6
35°	3371.8	2714.2	1168.1	977.4	1080.9	1144.2	1163.0	1137.3	1063.8	1060.4	1056.9
37.5°	3389.7	2585.9	997.9	950.0	1071.5	1141.6	1151.9	1033.8	968.9	938.9	931.2
40°	3435.9	2436.3	885.9	929.5	1070.6	1161.3	1101.4	981.7	856.8	798.7	794.4
42.5°	3497.5	2289.2	817.5	916.7	1080.9	1191.2	1080.9	908.1	772.2	738.0	732.8
45°	3589.0	2120.7	779.9	910.7	1096.3	1202.3	1074.0	854.3	738.0	710.6	710.6
47.5°	3692.4	1960.0	759.4	906.4	1115.9	1194.6	1013.3	837.2	721.7	725.1	741.4
50°	3795.1	1820.6	744.0	897.0	1133.0	1190.3	988.5	836.3	726.0	769.6	798.7
52.5°	3913.9	1722.2	725.1	881.6	1133.0	1163.0	980.8	853.4	738.0	750.8	763.6
55°	4057.6	1691.4	701.2	848.3	1112.5	1094.6	976.6	878.2	746.5	716.6	721.7
57.5°	4247.4	1741.0	678.1	806.4	1065.5	1023.6	974.8	885.1	726.9	702.1	696.9
60°	4468.0	1839.4	671.3	763.6	1001.4	962.9	964.6	865.4	699.5	673.8	678.1
62.5°	4622.8	1898.4	667.0	731.1	931.2	896.2	939.8	841.4	687.5	665.3	669.6
65°	4622.8	1826.6	627.7	681.5	840.6	815.8	909.9	811.5	672.1	646.5	642.2
67.5°	4447.5	1617.0	567.8	607.1	740.5	724.3	868.0	775.6	649.0	629.4	619.1
70°	3990.9	1226.3	492.6	519.9	614.0	628.5	814.1	726.9	610.6	586.6	571.2
71°	3789.9	1068.1	460.9	475.5	565.2	586.6	788.4	706.3	593.5	559.3	531.9
72.5°	3402.6	899.6	413.0	419.0	483.1	521.6	734.6	667.0	561.0	512.2	481.4
75°	2585.0	656.7	332.6	329.2	357.4	413.9	621.7	594.3	491.7	425.9	407.9
77.5°	1116.8	357.4	248.8	251.4	242.9	313.8	489.1	510.5	421.6	346.3	330.1
80°	338.6	206.1	170.2	173.6	162.5	210.4	344.6	400.2	338.6	269.4	247.1
82.5°	173.6	123.1	116.3	114.6	103.5	118.9	208.7	273.6	242.0	168.5	148.8
85°	75.3	65.8	57.3	55.6	48.7	42.8	74.4	136.8	128.3	94.1	89.8
87.5°	18.8	17.1	11.1	10.3	6.0	0.9	0.0	0.0	0.0	0.0	0.0
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)