

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: P453953

Luminaire Tested: **GALN-SA5A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453953
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-SA5A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20683 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

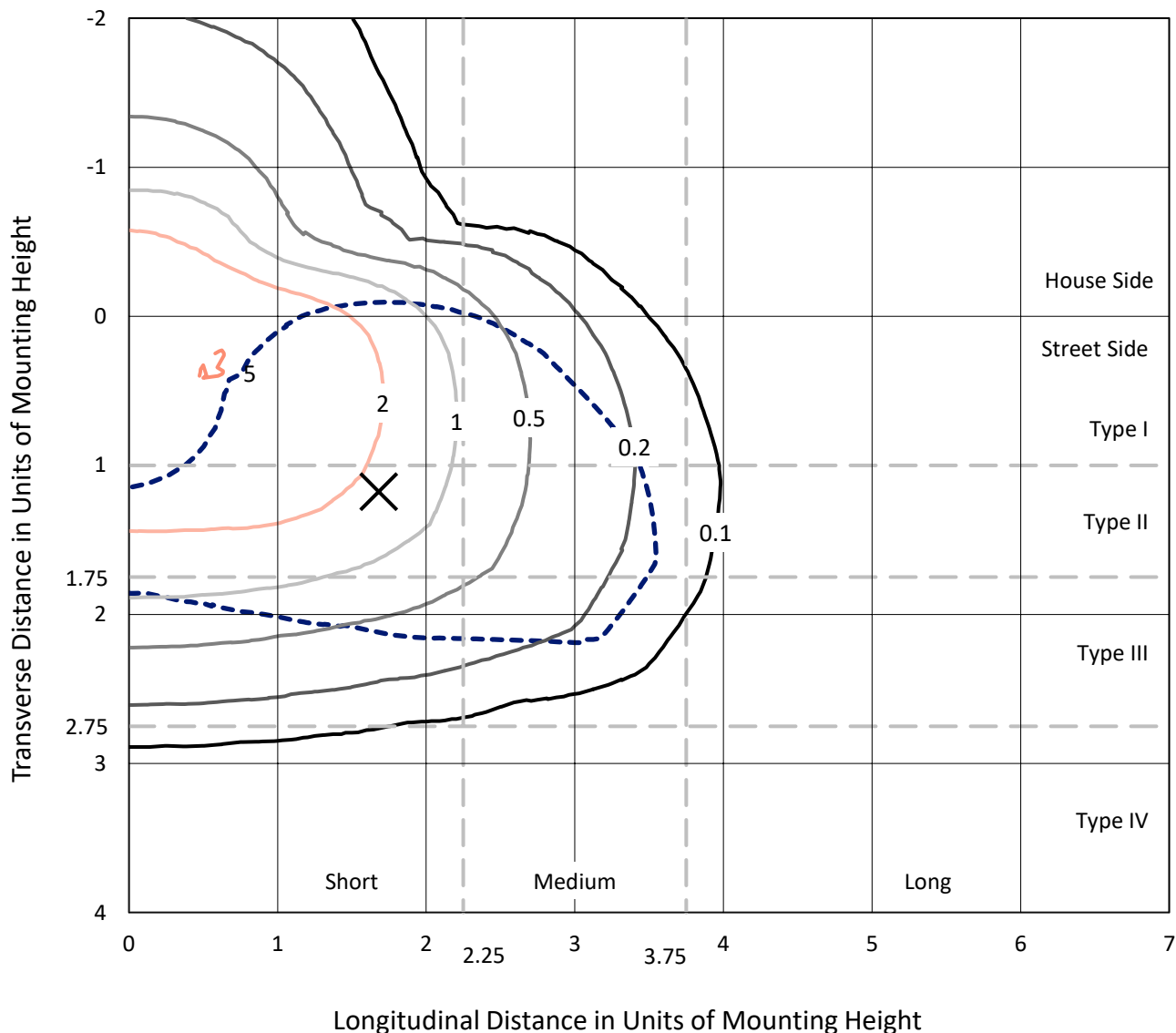
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453953
 CATALOG NUMBER: GALN-SA5A-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

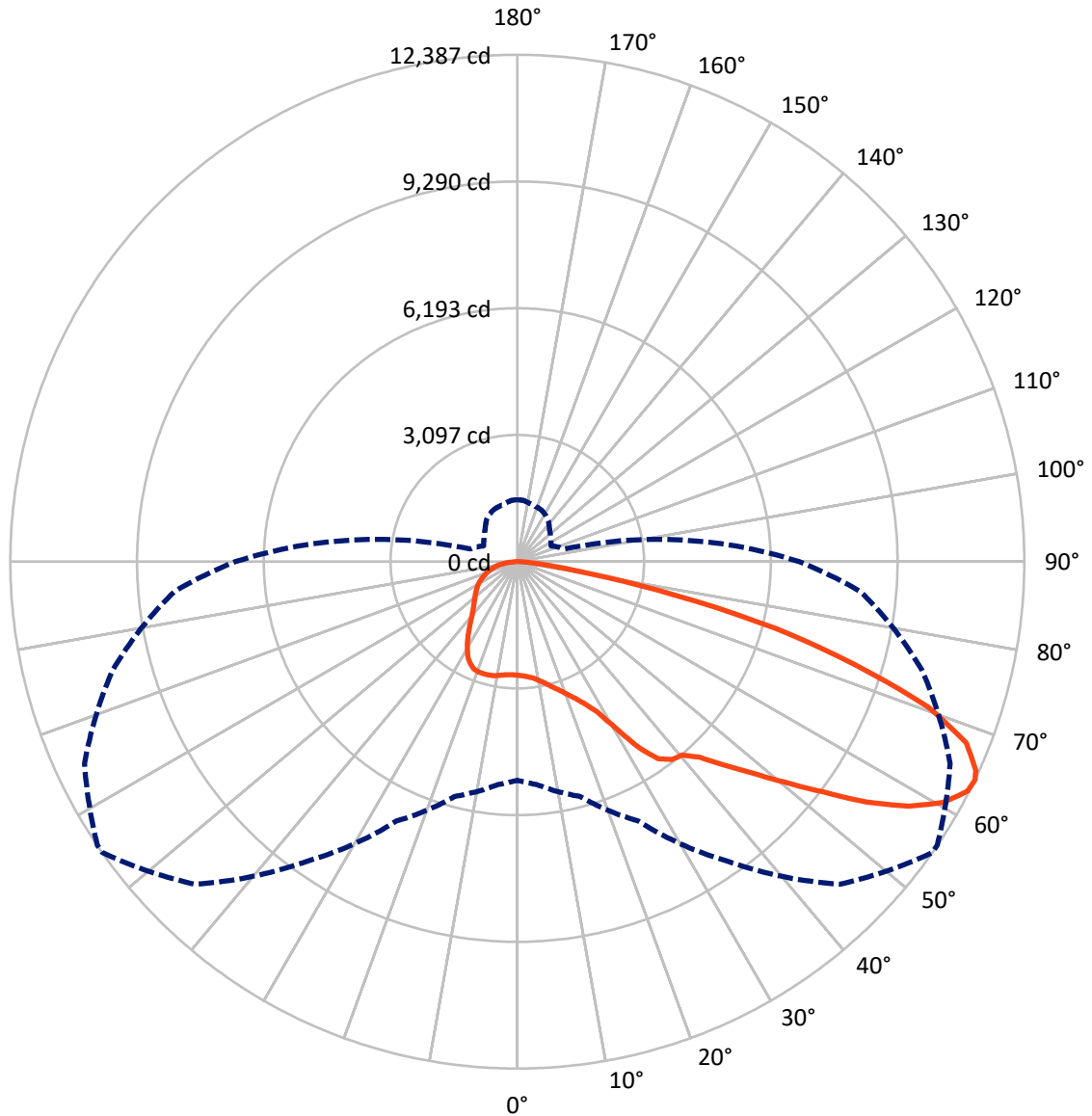
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P453953
CATALOG NUMBER: GALN-SA5A-730-U-T3

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	5024.3	0.0	5024.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	15658.7	0.0	15658.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	20683.0	0.0	20683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.3
10°-20°	851.7	4.1
20°-30°	1516.3	7.3
30°-40°	2333.0	11.3
40°-50°	3307.2	16.0
50°-60°	4787.1	23.1
60°-70°	4954.2	24.0
70°-80°	2320.0	11.2
80°-90°	343.5	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°	20683.0	100.0
0°-180°	20683.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453953

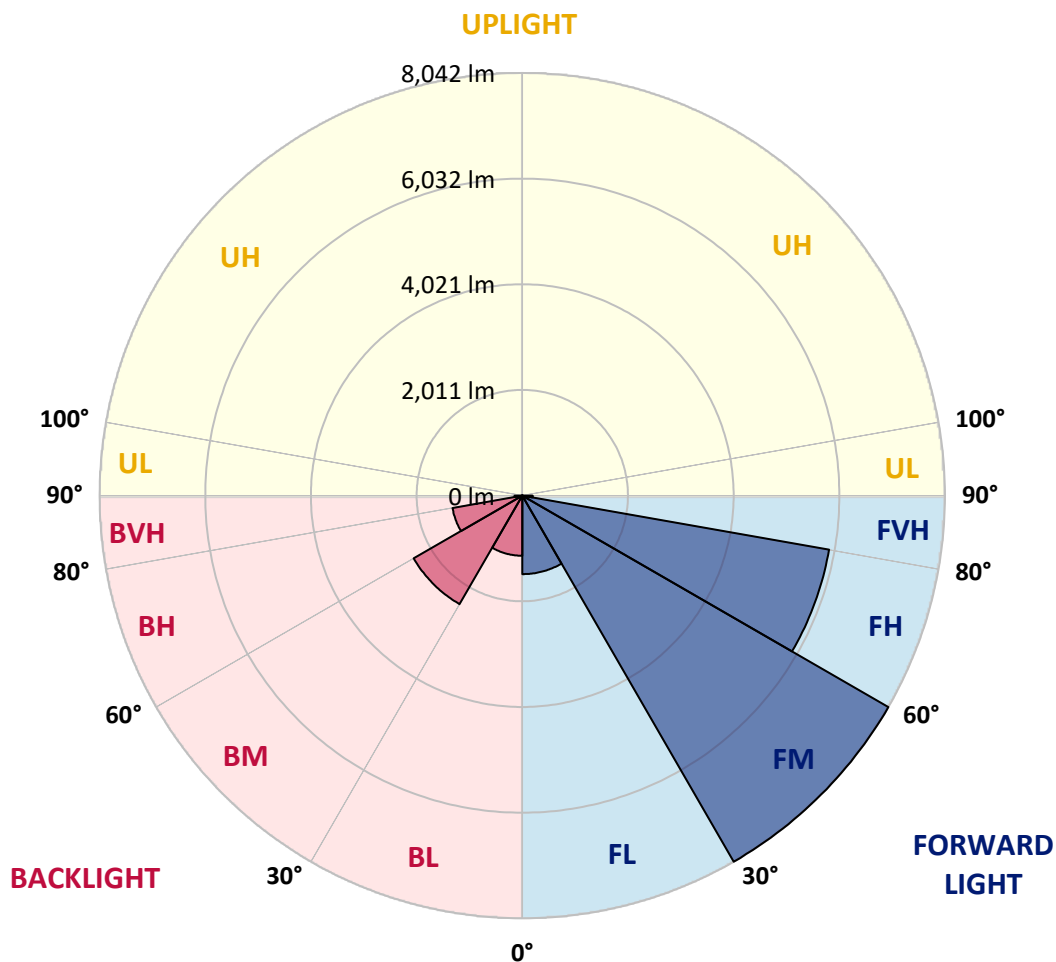
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.6	7.2			
FM	(30°-60°)	8042.1	38.9			
FH	(60°-80°)	5926.3	28.7			G3/7500
FVH	(80°-90°)	196.7	1.0			G2/225
BL	(0°-30°)	1144.3	5.5	B3/2500		
BM	(30°-60°)	2385.2	11.5	B2/2500		
BH	(60°-80°)	1347.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	146.8	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: P453953

CATALOG NUMBER: GALN-SA5A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2.5°	2806.2	2805.0	2808.5	2805.0	2807.3	2799.2	2795.8	2798.1	2794.6	2788.9	2778.5
5°	2840.7	2839.6	2840.7	2836.1	2838.4	2833.8	2825.8	2828.1	2822.3	2809.6	2794.6
7.5°	2899.5	2894.9	2894.9	2893.8	2889.2	2882.3	2876.5	2874.2	2868.4	2852.3	2829.2
10°	2975.6	2975.6	2976.8	2967.6	2973.3	2960.7	2954.9	2953.7	2934.1	2913.4	2881.1
12.5°	3075.9	3081.7	3078.2	3073.6	3071.3	3066.7	3047.1	3051.7	3029.8	2994.1	2954.9
15°	3200.5	3209.7	3203.9	3201.6	3195.8	3178.5	3170.5	3167.0	3138.2	3086.3	3034.4
17.5°	3365.3	3353.8	3349.2	3343.4	3319.2	3306.5	3292.7	3290.4	3265.0	3203.9	3123.2
20°	3509.4	3525.6	3516.4	3510.6	3486.4	3462.2	3451.8	3448.3	3426.4	3359.6	3230.4
22.5°	3681.2	3684.7	3688.1	3674.3	3662.8	3644.3	3625.9	3620.1	3612.0	3542.9	3384.9
25°	3864.5	3878.4	3866.8	3853.0	3839.2	3838.0	3855.3	3853.0	3849.5	3782.7	3590.1
27.5°	4163.1	4175.8	4179.3	4164.3	4111.2	4115.9	4155.1	4167.7	4220.8	4110.1	3854.2
30°	4331.5	4344.1	4373.0	4429.4	4513.6	4587.4	4681.9	4710.8	4761.5	4552.8	4167.7
32.5°	4435.2	4439.8	4491.7	4596.6	4849.1	5124.6	5381.7	5392.1	5424.4	5131.6	4454.8
35°	4598.9	4602.4	4643.9	4759.2	5055.5	5514.3	5912.1	5924.8	5898.2	5311.4	4588.5
37.5°	4800.7	4809.9	4836.4	4932.1	5286.1	5840.6	6132.3	6123.1	5887.9	5454.4	4824.9
40°	5094.7	5094.7	5063.5	5192.7	5529.3	6027.4	6209.5	6193.4	6131.1	5868.3	5184.6
42.5°	5354.1	5349.5	5423.2	5510.9	5833.7	6315.6	6533.5	6560.0	6662.6	6388.2	5593.9
45°	5691.9	5712.6	5754.1	5913.2	6351.3	6807.9	7089.2	7114.6	7259.8	7000.4	6072.3
47.5°	6033.1	6040.1	6170.3	6382.5	6992.3	7475.4	7706.0	7747.5	7880.1	7716.4	6587.7
50°	6275.2	6341.0	6549.6	6884.0	7653.0	8289.4	8469.2	8518.8	8752.8	8495.7	7188.3
52.5°	6531.2	6595.8	6850.5	7360.1	8411.6	9121.8	9343.1	9376.5	9619.8	9284.3	7802.8
55°	6750.2	6810.2	7099.6	7782.1	9015.7	9971.4	10372.7	10333.5	10449.9	9891.9	8276.7
57.5°	6786.0	6834.4	7198.7	8051.9	9469.9	10700.1	11275.4	11298.4	11163.5	10346.1	8667.5
60°	6509.3	6608.4	7026.9	8023.0	9674.0	11207.4	11948.7	11964.8	11582.1	10579.0	8823.2
62.5°	6019.3	6008.9	6515.0	7559.6	9388.1	11322.6	12345.3	12328.0	11745.8	10467.2	8672.1
64°	5342.5	5467.1	5939.7	6990.0	8926.9	11145.1	12386.8	12377.6	11667.4	10234.3	8415.0
65°	4929.8	4922.9	5389.8	6524.3	8468.1	10877.6	12313.0	12300.3	11503.7	10025.6	8215.6
67.5°	3559.0	3575.1	4036.3	5034.7	6884.0	9831.9	11832.2	11785.0	10858.0	9333.9	7457.0
70°	2155.9	2165.1	2527.2	3340.0	4941.3	7948.1	10665.5	10667.8	9870.0	8300.9	6346.7
72.5°	1135.6	1159.8	1305.1	1896.5	3001.0	5576.6	8652.5	8857.7	8473.8	7084.6	5014.0
75°	631.8	635.2	737.9	935.0	1531.1	3120.9	6503.5	6562.3	6708.7	5702.3	3707.7
77.5°	481.9	488.8	521.1	604.1	833.5	1446.9	3936.0	4231.1	4728.0	4020.2	2115.6
80°	390.8	397.8	425.4	475.0	554.5	686.0	1828.5	1987.6	2530.6	1784.7	825.5
82.5°	304.4	299.8	335.5	367.8	403.5	405.8	750.5	830.1	1030.7	767.8	357.4
85°	226.0	226.0	254.8	247.9	260.6	237.5	330.9	365.5	412.7	326.3	166.0
87.5°	89.9	99.1	167.2	149.9	116.4	93.4	122.2	129.1	143.0	128.0	69.2
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: P453953

CATALOG NUMBER: GALN-SA5A-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0	2775.0
2.5°	2779.6	2783.1	2775.0	2769.3	2767.0	2763.5	2760.0	2761.2	2765.8	2770.4	2769.3
5°	2793.5	2794.6	2780.8	2773.9	2769.3	2764.7	2764.7	2768.1	2777.3	2784.3	2784.3
7.5°	2828.1	2828.1	2808.5	2795.8	2788.9	2780.8	2778.5	2779.6	2786.6	2795.8	2796.9
10°	2882.3	2877.6	2852.3	2832.7	2820.0	2800.4	2783.1	2773.9	2777.3	2783.1	2783.1
12.5°	2948.0	2935.3	2903.0	2876.5	2845.4	2808.5	2772.7	2754.3	2753.1	2758.9	2756.6
15°	3018.3	3004.5	2959.5	2911.1	2856.9	2802.7	2760.0	2733.5	2712.8	2707.0	2719.7
17.5°	3100.2	3071.3	3009.1	2942.2	2861.5	2791.2	2724.3	2670.1	2633.2	2622.9	2626.3
20°	3199.3	3161.3	3077.1	2972.2	2858.0	2749.7	2645.9	2573.3	2513.3	2494.9	2497.2
22.5°	3336.5	3270.8	3147.4	2987.2	2829.2	2671.3	2527.2	2432.6	2360.0	2331.2	2348.5
25°	3492.1	3420.7	3214.3	2983.7	2754.3	2545.6	2386.5	2263.1	2197.4	2154.8	2164.0
27.5°	3706.6	3579.8	3285.8	2952.6	2647.1	2392.3	2207.8	2091.4	2031.4	2009.5	2019.9
30°	3981.0	3786.1	3363.0	2868.4	2477.6	2198.6	2028.0	1951.9	1916.1	1888.5	1897.7
32.5°	4179.3	3931.4	3380.3	2726.6	2294.3	2022.2	1905.7	1849.3	1810.1	1783.5	1789.3
35°	4321.1	4054.8	3372.2	2552.5	2102.9	1876.9	1808.9	1762.8	1699.4	1641.7	1631.4
37.5°	4511.3	4209.2	3313.4	2362.3	1913.8	1778.9	1730.5	1645.2	1554.1	1476.9	1473.4
40°	4803.0	4390.2	3187.8	2138.6	1752.4	1706.3	1647.5	1536.8	1438.8	1376.6	1372.0
42.5°	5103.9	4557.4	3017.1	1903.4	1619.8	1630.2	1558.7	1449.2	1389.2	1348.9	1344.3
45°	5471.7	4738.4	2832.7	1699.4	1521.8	1558.7	1481.5	1418.1	1382.3	1355.8	1348.9
47.5°	5869.4	4924.0	2625.2	1516.1	1438.8	1493.0	1449.2	1420.4	1400.8	1382.3	1374.3
50°	6298.3	5131.6	2430.3	1368.5	1363.9	1425.0	1445.7	1435.4	1423.8	1418.1	1411.2
52.5°	6768.7	5343.7	2266.6	1264.7	1298.2	1376.6	1446.9	1455.0	1455.0	1451.5	1446.9
55°	7086.9	5491.3	2100.6	1180.6	1231.3	1337.4	1444.6	1475.7	1487.2	1482.6	1478.0
57.5°	7322.1	5572.0	1891.9	1107.9	1174.8	1299.3	1431.9	1478.0	1489.5	1495.3	1493.0
60°	7370.5	5497.0	1618.7	1031.8	1113.7	1244.0	1385.8	1443.4	1458.4	1494.2	1497.6
62.5°	7152.6	5266.5	1346.6	956.9	1038.8	1159.8	1323.5	1404.2	1434.2	1489.5	1495.3
64°	6885.1	5008.2	1195.6	909.6	990.3	1112.6	1292.4	1393.9	1433.1	1506.8	1511.5
65°	6689.1	4820.3	1101.0	879.7	959.2	1081.4	1275.1	1397.3	1443.4	1533.4	1540.3
67.5°	5967.4	4173.5	910.8	809.3	885.4	1028.4	1278.6	1426.1	1441.1	1543.7	1542.6
70°	4937.9	3322.7	763.2	744.8	813.9	985.7	1264.7	1380.0	1381.2	1449.2	1433.1
72.5°	3697.4	2455.7	661.8	677.9	734.4	884.3	1194.4	1317.8	1298.2	1307.4	1291.2
75°	2539.8	1624.4	569.5	606.4	651.4	781.7	1095.3	1196.7	1165.6	1154.1	1142.5
77.5°	1355.8	898.1	473.8	536.1	566.1	675.6	955.8	1053.8	1021.5	976.5	961.5
80°	548.8	423.1	381.6	443.9	461.2	544.2	795.5	856.6	832.4	754.0	728.6
82.5°	275.5	253.6	299.8	349.3	350.5	388.5	591.4	649.1	594.9	499.2	477.3
85°	144.1	148.7	206.4	245.6	216.7	209.8	355.1	393.1	360.9	313.6	282.5
87.5°	51.9	60.0	108.4	107.2	76.1	40.4	78.4	38.0	20.8	12.7	16.1
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)