

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: P453928

Luminaire Tested: **GALN-SA5A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19111 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

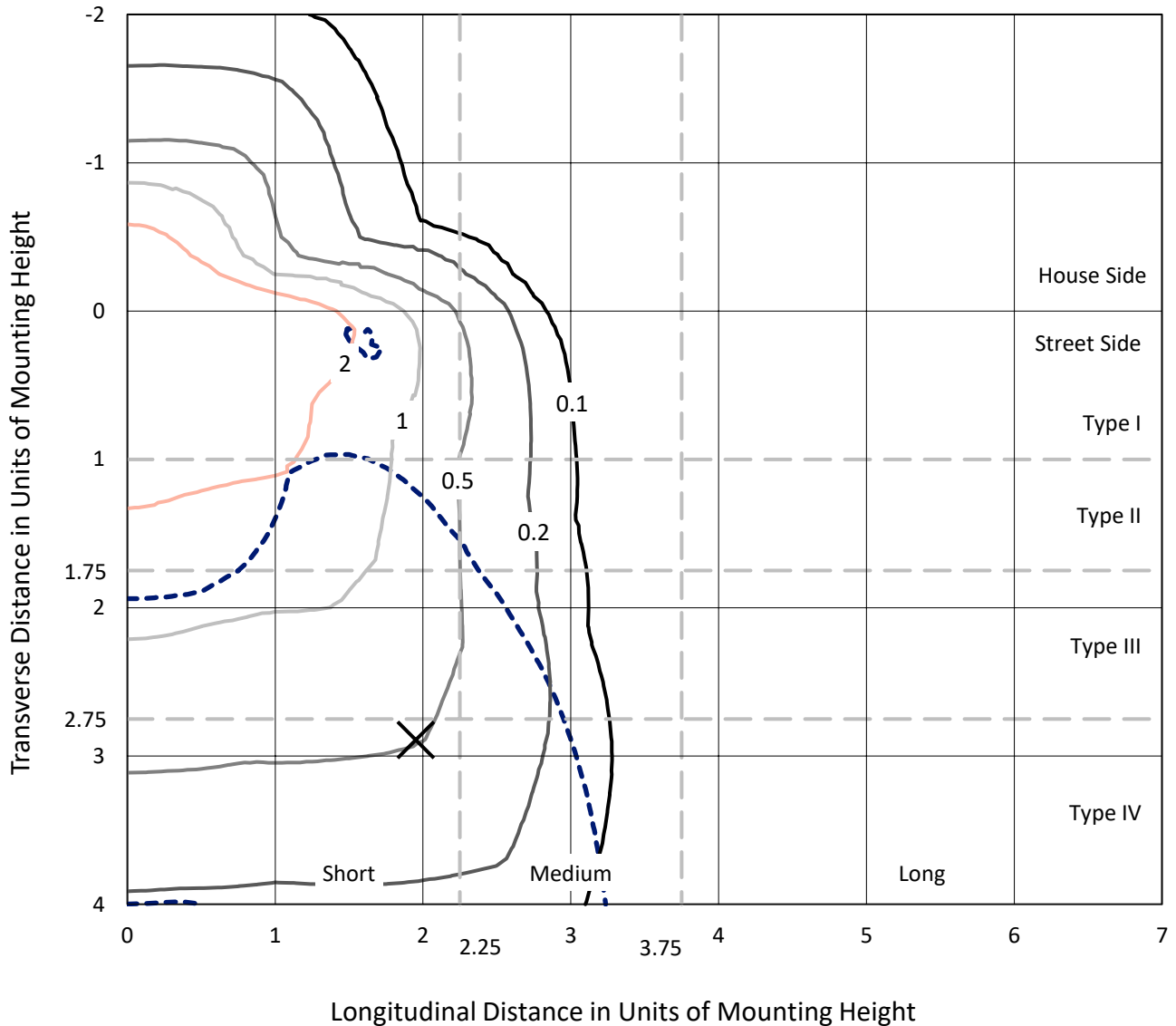
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

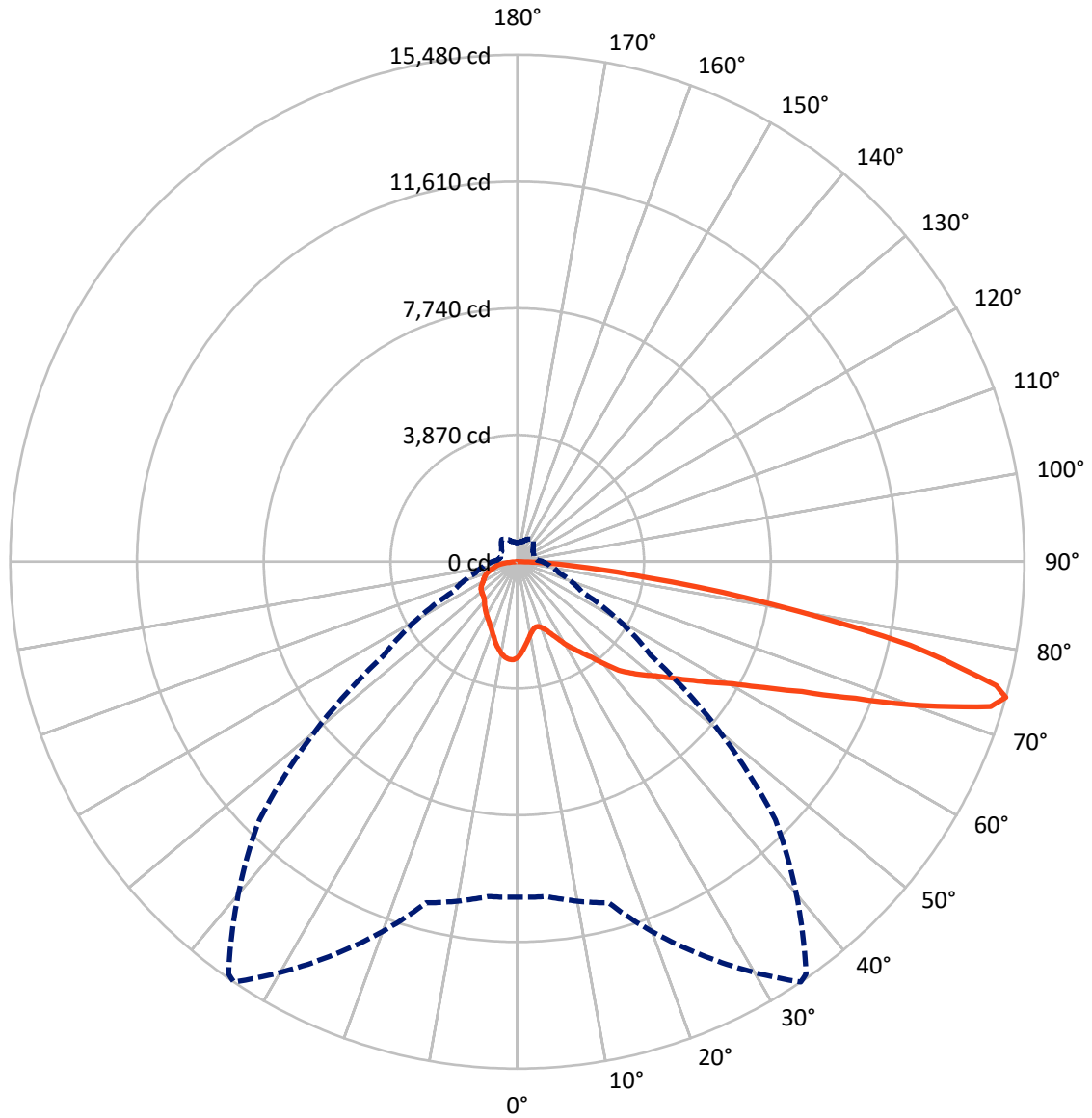
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4067.0	0.0	4067.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	15044.0	0.0	15044.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	19111.0	0.0	19111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.4
10°-20°	726.4	3.8
20°-30°	1197.7	6.3
30°-40°	1794.0	9.4
40°-50°	2608.0	13.6
50°-60°	3642.8	19.1
60°-70°	4560.6	23.9
70°-80°	3771.2	19.7
80°-90°	544.9	2.9
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°	19111.0	100.0
0°-180°	19111.0	100.0

Coefficient of Utilization



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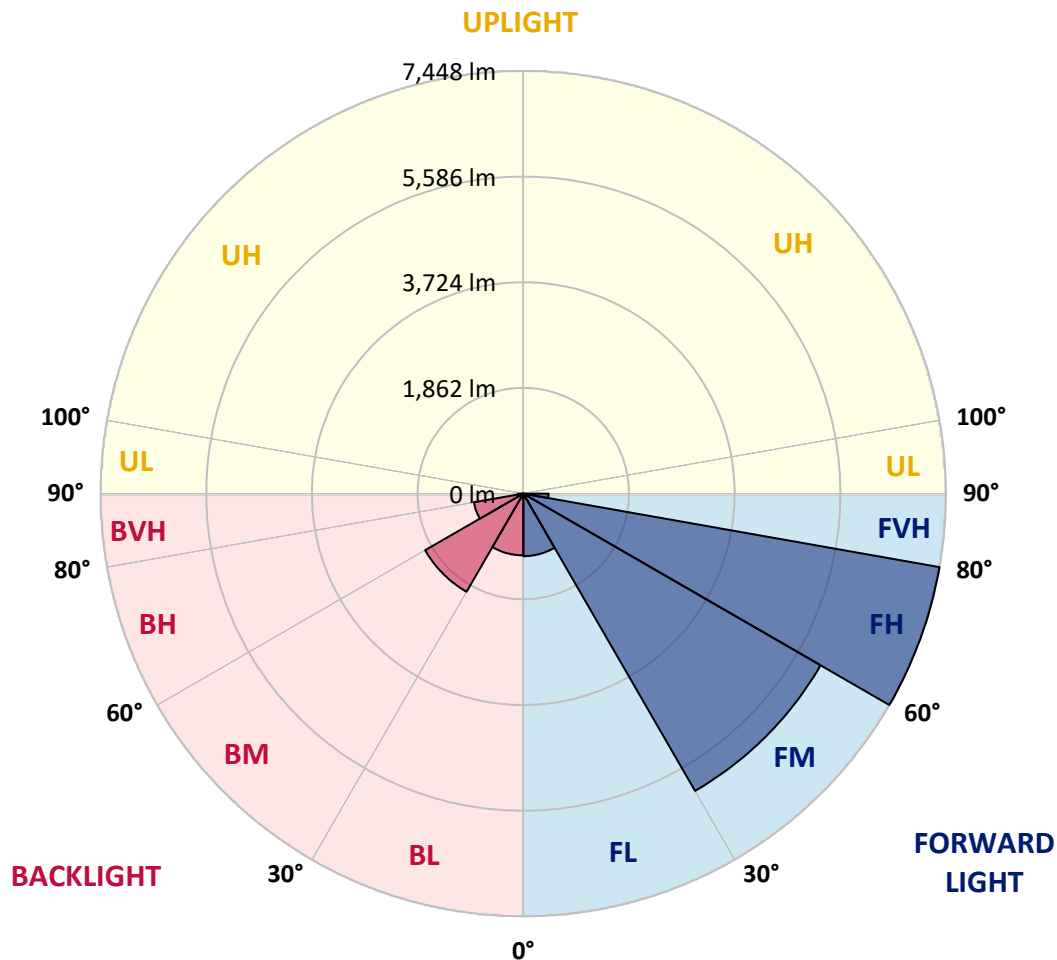
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.7	5.8			
FM (30°-60°)	6047.5	31.6			
FH (60°-80°)	7448.5	39.0			G3/7500
FVH (80°-90°)	446.4	2.3			G3/500
BL (0°-30°)	1087.8	5.7	B3/2500		
BM (30°-60°)	1997.3	10.5	B2/2500		
BH (60°-80°)	883.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	98.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9
2.5°	2696.6	2710.4	2717.8	2744.2	2750.6	2759.1	2781.3	2810.9	2849.1	2882.9	2912.6
5°	2472.1	2493.3	2506.0	2529.3	2574.8	2579.1	2638.4	2706.1	2783.4	2855.4	2914.7
7.5°	2259.3	2282.6	2293.2	2335.6	2395.9	2405.4	2492.3	2599.2	2728.4	2837.4	2928.5
10°	2099.5	2111.1	2134.4	2166.2	2238.2	2244.5	2357.8	2500.7	2668.0	2828.9	2951.8
12.5°	2012.7	2019.0	2024.3	2058.2	2129.1	2138.6	2257.2	2419.2	2620.4	2835.3	2989.9
15°	2025.4	2027.5	2004.2	2010.5	2067.7	2081.5	2199.0	2365.2	2590.7	2851.2	3047.0
17.5°	2132.3	2124.9	2067.7	2038.1	2078.3	2084.6	2187.3	2344.0	2577.0	2880.8	3106.3
20°	2300.6	2290.0	2191.6	2125.9	2149.2	2154.5	2225.5	2359.9	2590.7	2929.5	3198.4
22.5°	2510.3	2506.0	2356.7	2277.3	2276.3	2276.3	2313.3	2417.1	2632.0	2996.2	3294.8
25°	2803.5	2781.3	2586.5	2483.8	2455.2	2453.1	2448.9	2511.3	2685.0	3067.2	3409.1
27.5°	3104.2	3066.1	2892.5	2734.7	2673.3	2665.9	2638.4	2644.7	2752.7	3147.6	3539.3
30°	3374.2	3349.8	3186.8	3012.1	2939.0	2922.1	2845.9	2810.9	2866.0	3292.7	3746.9
32.5°	3580.6	3565.8	3438.8	3280.0	3172.0	3168.8	3057.6	3029.0	3042.8	3468.4	3984.0
35°	3747.9	3753.2	3688.6	3551.0	3427.1	3409.1	3335.0	3299.0	3258.8	3722.5	4282.6
37.5°	3976.6	3988.3	3984.0	3865.4	3714.0	3718.3	3701.3	3642.0	3535.1	4006.3	4614.0
40°	4228.6	4237.1	4236.0	4190.5	4111.1	4115.3	4108.9	4041.2	3881.3	4367.3	4982.4
42.5°	4576.9	4536.7	4431.9	4477.4	4524.0	4544.1	4587.5	4522.9	4303.8	4752.7	5328.6
45°	4966.5	4890.3	4653.1	4674.3	4846.9	4885.0	5124.3	5035.3	4762.2	5195.2	5736.2
47.5°	5212.1	5137.0	4936.9	4932.6	5161.3	5198.4	5621.9	5589.1	5179.3	5672.7	6233.8
50°	5431.3	5420.7	5195.2	5249.2	5472.6	5527.7	6164.0	6133.2	5595.4	6235.9	6775.9
52.5°	5756.3	5670.6	5490.6	5601.8	5897.2	5969.1	6701.8	6611.8	5977.6	6733.6	7302.1
55°	5902.4	5882.3	5871.7	5968.1	6373.6	6425.5	7224.8	7018.3	6303.7	7154.9	7702.3
57.5°	6293.1	6256.1	6360.9	6426.5	6934.7	7014.1	7771.1	7442.9	6589.6	7489.5	7897.1
60°	6799.2	6779.1	6875.4	6994.0	7561.5	7682.2	8393.6	7805.0	6819.3	7657.8	7790.2
62.5°	7555.1	7553.0	7535.0	7789.1	8449.8	8560.9	9108.3	8157.5	6855.3	7531.8	7237.5
65°	8639.3	8601.2	8444.5	8721.9	9555.1	9685.3	9852.6	8354.5	6638.3	6884.9	6094.1
67.5°	9773.2	9771.1	9644.0	10004.0	11142.1	11276.6	10783.2	8311.1	6035.8	5577.4	4328.1
70°	10713.3	10667.8	10829.8	11789.0	13169.6	13325.2	11597.4	7799.7	4807.7	3683.3	2571.7
72.5°	10938.8	10941.0	11277.6	13165.4	15116.6	15141.0	11890.6	6321.7	3217.5	2031.7	1286.4
74°	10244.3	10262.3	10784.3	13234.2	15479.8	15369.6	11141.1	4968.6	2175.7	1326.6	927.5
75°	9350.7	9237.5	9992.3	12775.7	15102.8	14984.3	10263.4	3987.2	1660.1	1059.8	812.0
77.5°	4999.3	5114.7	6279.4	9533.9	12269.7	12133.1	6959.1	1912.1	896.7	737.9	584.4
80°	1779.7	1962.9	2759.1	4988.8	7866.4	7908.7	3321.2	876.6	631.0	544.2	412.9
82.5°	726.3	746.4	1184.7	2213.8	3994.6	4032.7	1356.2	520.9	451.0	374.8	246.7
85°	283.7	292.2	524.1	995.2	1704.6	1815.7	469.0	275.3	277.4	214.9	126.0
87.5°	95.3	108.0	214.9	331.4	579.1	567.5	136.6	81.5	99.5	93.2	39.2
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°	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9
2.5°	2927.4	2947.5	2961.3	2976.1	2989.9	2994.1	2990.9	3000.5	3001.5	3002.6	3003.6
5°	2944.3	2971.9	2998.3	3013.2	3019.5	3014.2	2996.2	2986.7	2978.2	2971.9	2974.0
7.5°	2967.6	3006.8	3031.2	3037.5	3020.6	2996.2	2951.8	2916.8	2894.6	2879.8	2878.7
10°	3003.6	3041.7	3061.9	3043.9	2997.3	2938.0	2868.1	2802.5	2752.7	2737.9	2736.8
12.5°	3049.2	3092.6	3091.5	3038.6	2957.0	2851.2	2737.9	2661.7	2593.9	2560.0	2573.8
15°	3108.4	3141.3	3110.6	3015.3	2886.1	2741.1	2601.3	2497.6	2421.3	2385.3	2387.4
17.5°	3177.3	3205.8	3124.3	2974.0	2786.6	2600.3	2438.3	2339.8	2279.5	2253.0	2250.9
20°	3263.0	3271.5	3124.3	2902.0	2658.5	2436.1	2281.6	2212.8	2178.9	2165.1	2169.3
22.5°	3355.1	3338.2	3107.4	2800.4	2490.1	2264.6	2160.9	2130.2	2113.2	2111.1	2113.2
25°	3458.9	3411.2	3072.4	2662.7	2314.4	2116.4	2056.1	2061.4	2064.5	2064.5	2071.9
27.5°	3585.9	3490.6	3014.2	2489.1	2109.0	1978.8	1961.8	1998.9	2015.8	2019.0	2024.3
30°	3753.2	3577.5	2917.9	2272.0	1934.3	1854.9	1884.5	1934.3	1953.4	1965.0	1962.9
32.5°	3952.3	3672.7	2787.6	2055.0	1793.5	1768.1	1804.1	1854.9	1876.1	1882.4	1874.0
35°	4186.2	3780.7	2616.1	1851.7	1670.7	1685.5	1727.9	1743.7	1762.8	1762.8	1767.0
37.5°	4438.2	3867.6	2406.5	1665.4	1575.4	1629.4	1660.1	1645.3	1636.8	1626.2	1631.5
40°	4694.4	3932.1	2134.4	1481.2	1480.1	1571.2	1579.6	1537.3	1503.4	1492.8	1487.5
42.5°	4917.8	3972.4	1888.8	1338.2	1390.1	1514.0	1520.3	1452.6	1398.6	1366.8	1356.2
45°	5181.4	4019.0	1648.4	1219.7	1306.5	1468.5	1484.3	1393.3	1313.9	1247.2	1230.2
47.5°	5542.5	4124.8	1458.9	1127.6	1246.1	1439.9	1462.1	1344.6	1239.8	1153.0	1139.2
50°	5950.1	4269.9	1311.8	1065.1	1199.5	1414.5	1442.0	1294.8	1171.0	1074.6	1064.0
52.5°	6323.8	4348.2	1184.7	1009.0	1154.0	1367.9	1415.5	1258.8	1103.2	996.3	986.7
55°	6528.2	4221.2	1059.8	953.9	1091.6	1307.5	1378.5	1209.1	1037.6	955.0	941.2
57.5°	6555.7	3958.6	946.5	894.6	1025.9	1233.4	1309.7	1148.7	995.2	926.4	914.7
60°	6342.9	3566.9	858.6	845.9	959.2	1149.8	1232.4	1095.8	951.8	894.6	883.0
62.5°	5813.5	3141.3	797.2	801.5	891.5	1061.9	1175.2	1045.0	910.5	859.7	849.1
65°	4903.0	2592.8	737.9	755.9	831.1	993.1	1123.3	1002.6	869.2	833.2	823.7
67.5°	3405.9	1871.8	689.2	708.3	773.9	923.2	1063.0	957.1	822.6	803.6	788.8
70°	1885.6	1151.9	632.1	654.3	714.6	844.9	995.2	888.3	754.9	746.4	725.2
72.5°	991.0	733.7	567.5	591.8	634.2	744.3	891.5	813.1	688.2	652.2	624.7
74°	773.9	601.4	524.1	549.5	578.1	685.0	830.0	759.1	640.5	598.2	577.0
75°	674.4	535.7	487.0	519.8	545.2	644.8	782.4	721.0	614.1	573.8	554.8
77.5°	476.4	401.3	398.1	437.3	451.0	565.4	705.1	656.4	547.4	505.0	487.0
80°	334.6	300.7	315.5	339.9	358.9	499.7	654.3	567.5	448.9	399.1	392.8
82.5°	218.1	196.9	225.5	247.7	254.1	368.4	528.3	430.9	327.1	265.7	246.7
85°	100.6	98.5	129.2	126.0	124.9	180.0	313.4	252.0	188.5	140.8	132.3
87.5°	25.4	24.4	31.8	26.5	31.8	27.5	28.6	7.4	1.1	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)