

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: P451591

Luminaire Tested: **GALN-SA2C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11719 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

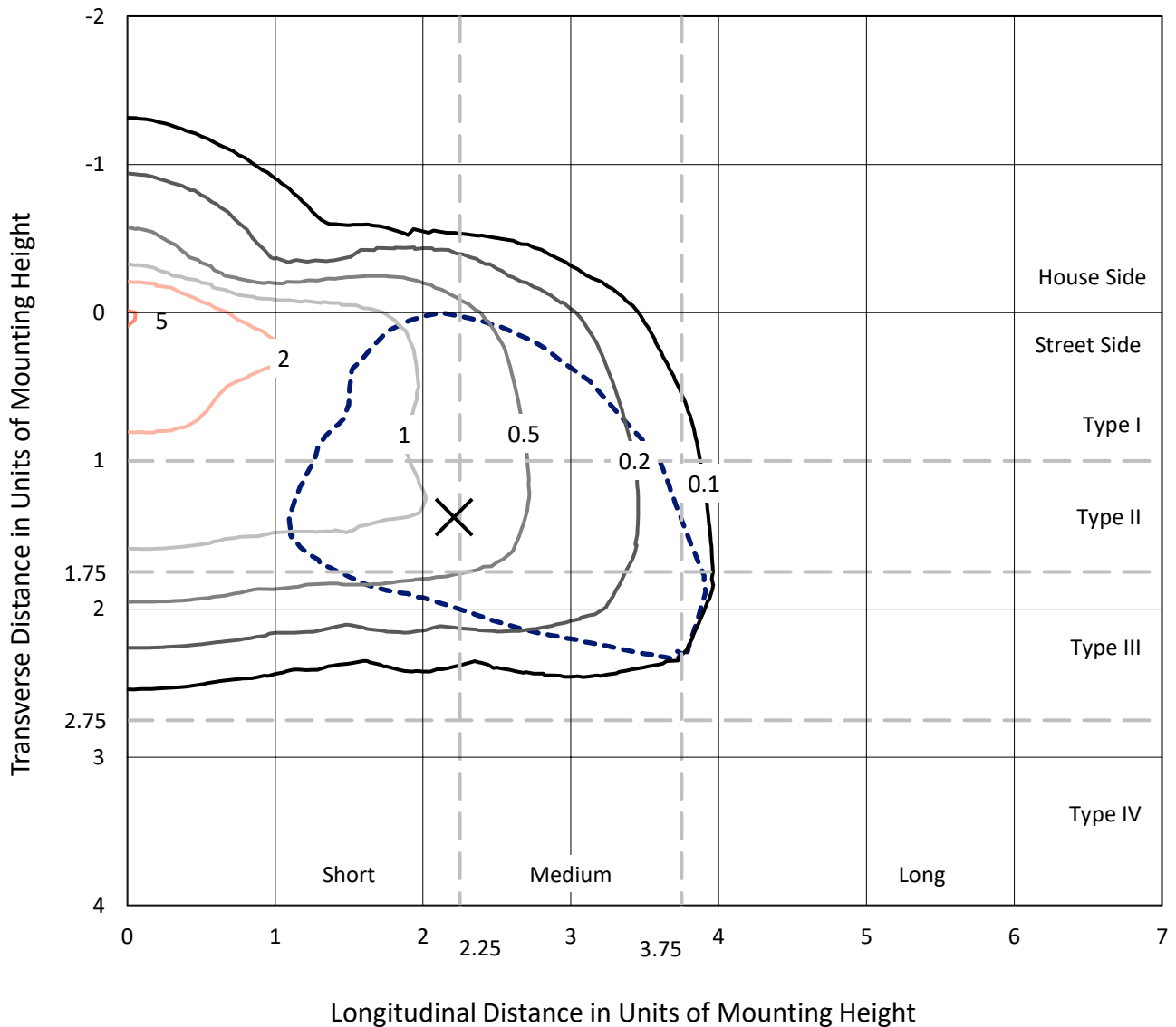
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

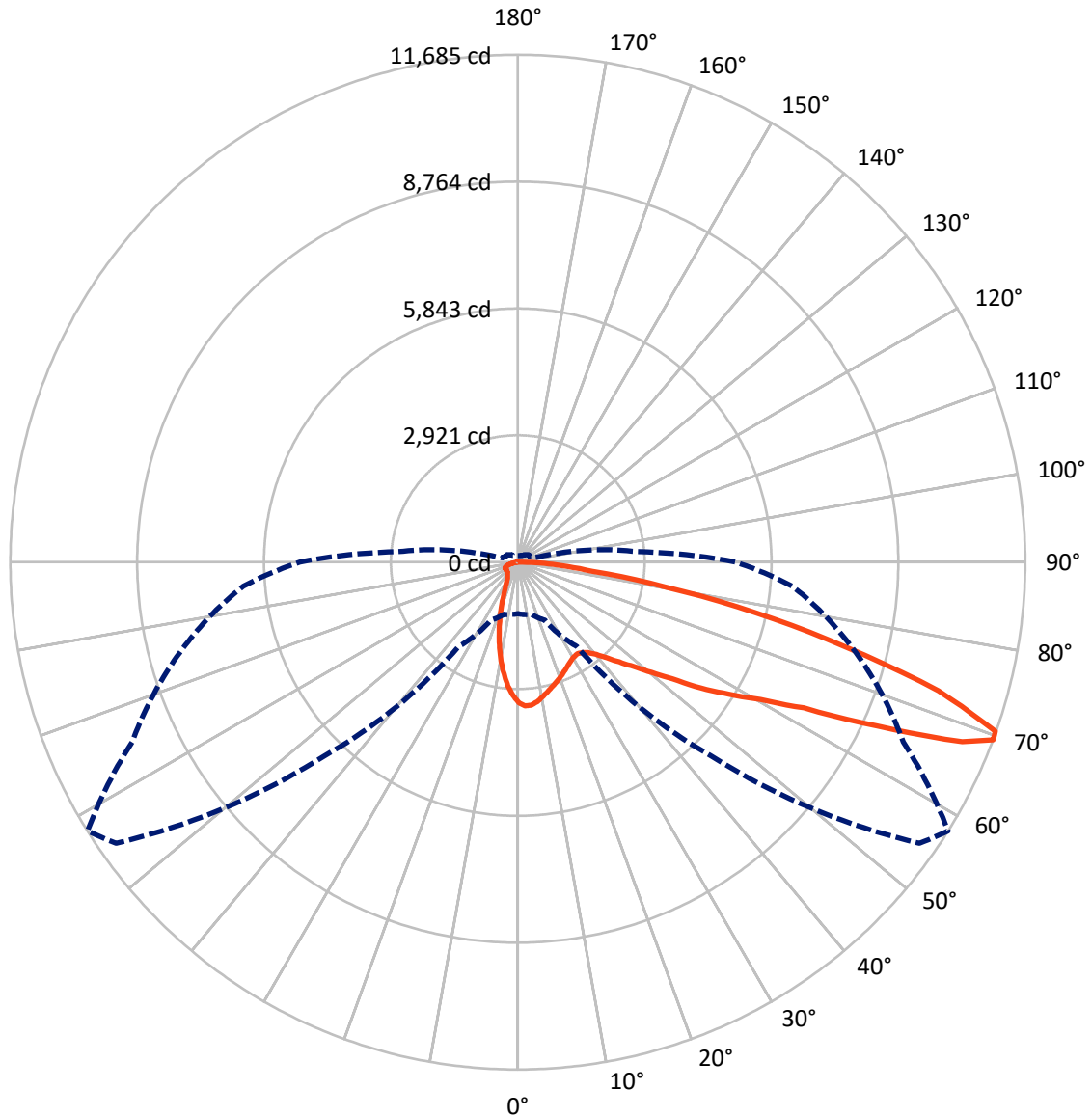
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.4	0.0	1717.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10001.6	0.0	10001.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	11719.0	0.0	11719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	2.3
10°-20°	603.9	5.2
20°-30°	780.2	6.7
30°-40°	1013.4	8.6
40°-50°	1473.3	12.6
50°-60°	2350.9	20.1
60°-70°	3140.6	26.8
70°-80°	1810.4	15.4
80°-90°	271.2	2.3
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°	11719.0	100.0
0°-180°	11719.0	100.0

Coefficient of Utilization



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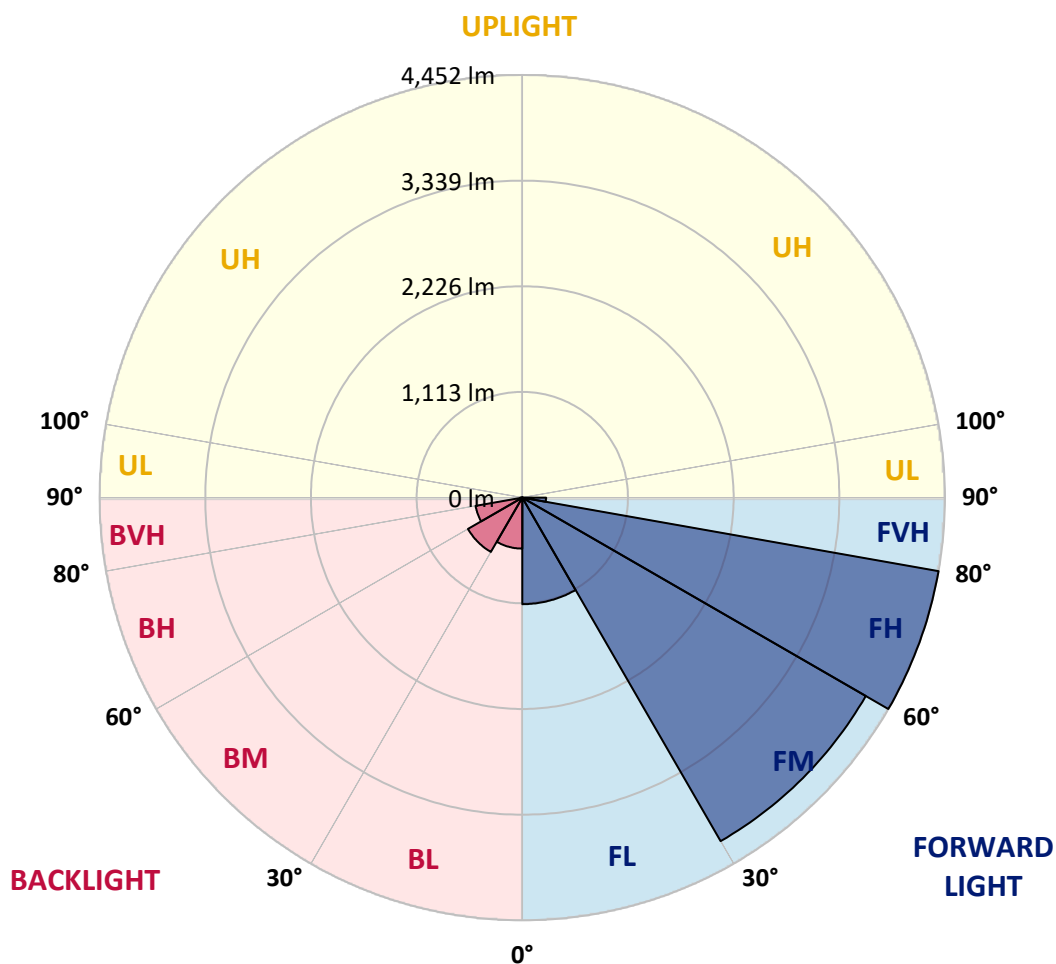
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.4	9.6			
FM (30°-60°)	4177.2	35.6			
FH (60°-80°)	4451.6	38.0			G2/5000
FVH (80°-90°)	250.4	2.1			G3/500
BL (0°-30°)	536.8	4.6	B2/1000		
BM (30°-60°)	660.5	5.6	B1/1000		
BH (60°-80°)	499.4	4.3	B1/500		G1/500
BVH (80°-90°)	20.8	0.2			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3358.7	3367.9	3365.2	3362.0	3356.7	3342.4	3318.8	3314.9	3299.9	3267.9	3228.0
5°	3307.1	3314.9	3315.6	3320.1	3326.7	3324.1	3307.1	3305.1	3282.9	3239.8	3173.1
7.5°	3130.0	3140.4	3163.3	3188.8	3211.6	3233.2	3238.4	3241.7	3228.0	3178.3	3089.4
10°	2930.6	2941.1	2951.5	2989.4	3045.6	3099.2	3143.7	3149.6	3152.8	3107.1	2998.6
12.5°	2709.7	2731.3	2753.5	2809.7	2884.9	2969.2	3047.6	3060.0	3082.2	3047.6	2920.2
15°	2522.1	2544.4	2576.4	2626.7	2717.5	2839.1	2949.6	2969.8	3013.6	2996.0	2847.0
17.5°	2392.1	2399.9	2422.1	2479.6	2577.7	2705.8	2853.5	2894.0	2963.9	2959.4	2784.2
20°	2289.5	2299.3	2313.0	2348.3	2450.2	2585.5	2764.0	2816.2	2911.0	2926.7	2722.1
22.5°	2246.3	2253.5	2251.6	2270.5	2339.8	2475.7	2673.1	2735.2	2863.9	2904.5	2664.6
25°	2248.9	2255.5	2245.7	2241.1	2282.3	2379.0	2578.3	2657.4	2826.0	2889.4	2612.3
27.5°	2292.7	2297.3	2279.0	2260.7	2264.0	2318.9	2499.9	2587.5	2794.0	2896.0	2568.5
30°	2351.5	2360.0	2348.3	2326.1	2301.9	2304.5	2449.6	2535.9	2779.0	2918.8	2547.6
32.5°	2427.4	2435.2	2430.0	2412.3	2381.0	2346.3	2437.2	2516.9	2780.3	2965.3	2543.0
35°	2507.1	2522.8	2531.3	2530.0	2504.5	2444.4	2486.2	2552.2	2811.7	3043.0	2569.8
37.5°	2597.3	2610.4	2647.0	2670.5	2647.0	2577.0	2596.6	2642.4	2880.9	3155.4	2628.7
40°	2684.9	2704.5	2758.1	2831.3	2822.1	2760.7	2765.3	2795.3	3003.2	3322.8	2743.7
42.5°	2776.4	2799.9	2893.4	3001.9	3023.4	2975.7	2988.1	3014.9	3177.0	3554.8	2941.1
45°	2894.0	2922.1	3037.1	3172.4	3257.4	3228.0	3263.3	3276.4	3409.7	3856.7	3201.2
47.5°	3045.6	3078.3	3220.1	3388.8	3509.0	3535.8	3597.3	3589.4	3697.9	4214.2	3538.4
50°	3301.2	3319.5	3453.5	3625.4	3790.7	3911.6	3978.3	3990.7	4055.4	4561.9	3915.5
52.5°	3605.1	3621.4	3718.2	3868.5	4075.7	4331.9	4496.6	4456.0	4471.7	4985.4	4356.7
55°	3946.9	3974.4	4035.8	4135.8	4404.4	4781.5	5112.2	5122.0	4948.2	5390.7	4779.6
57.5°	4211.6	4258.0	4363.2	4505.7	4846.2	5281.5	5725.9	5732.5	5510.3	5823.3	5246.2
60°	4078.3	4133.2	4373.7	4720.7	5425.9	6154.0	6459.2	6422.0	6057.3	6316.1	5815.5
62.5°	3503.1	3512.9	3862.6	4405.1	5604.4	7321.3	7550.7	7393.2	6787.3	6940.9	6393.9
65°	2267.2	2331.3	2608.4	3368.5	5018.1	7969.0	9463.1	9099.0	7810.8	7650.1	6878.2
67.5°	1431.3	1415.0	1530.0	1923.5	3451.5	7398.4	11095.0	11037.5	9149.3	8097.7	6762.5
69°	1186.9	1205.2	1244.4	1474.5	2375.1	6316.8	11287.8	11685.2	9798.3	8062.5	6342.3
70°	1076.4	1084.9	1126.1	1307.1	1832.6	5290.7	10971.5	11667.6	10053.2	7914.7	6037.7
72.5°	854.2	853.6	924.1	1087.5	1369.9	3020.2	9008.8	10129.7	9768.3	7227.2	4988.7
75°	649.0	659.5	737.2	920.2	1262.0	1650.3	6286.7	7801.0	7801.7	5708.3	3113.0
77.5°	468.0	474.5	565.3	772.5	1188.8	1337.9	4187.4	5595.2	5259.9	2615.6	978.4
80°	306.5	310.4	379.7	611.7	1071.9	1262.0	2482.9	3424.7	2481.0	694.1	323.5
82.5°	168.0	187.6	232.0	396.1	860.1	1166.0	1509.1	1733.3	930.7	309.1	168.6
85°	84.3	89.5	130.7	231.4	562.1	964.7	1050.9	994.1	480.4	153.6	87.6
87.5°	24.8	31.4	54.2	89.5	228.1	502.6	584.9	524.8	185.0	55.6	18.3
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°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3211.6	3199.9	3147.6	3100.5	3057.4	3011.7	2973.1	2939.1	2942.4	2943.0	2908.4
5°	3138.4	3111.7	3012.3	2919.5	2841.1	2741.7	2656.8	2601.9	2574.4	2537.8	2550.9
7.5°	3039.1	2987.5	2849.6	2695.3	2550.9	2422.1	2282.3	2186.2	2124.8	2065.3	2073.1
10°	2936.5	2853.5	2652.8	2448.9	2262.0	2056.1	1877.7	1724.8	1611.1	1568.6	1540.5
12.5°	2831.3	2722.1	2467.2	2196.0	1937.8	1691.4	1438.5	1274.5	1149.0	1082.3	1090.8
15°	2735.2	2602.5	2273.8	1943.1	1607.8	1314.3	1062.1	905.8	818.3	800.0	810.4
17.5°	2646.3	2472.5	2092.7	1697.3	1305.8	985.6	798.0	709.8	674.5	664.7	664.0
20°	2554.8	2362.0	1889.5	1434.6	1017.6	764.0	654.9	613.7	607.2	611.1	611.7
22.5°	2462.0	2225.4	1680.3	1173.8	810.4	624.8	572.5	561.4	566.6	575.8	577.1
25°	2376.4	2105.2	1479.0	945.1	647.0	549.0	523.5	523.5	535.3	549.0	549.7
27.5°	2305.8	1988.8	1278.4	750.3	541.8	494.1	485.6	490.2	506.5	517.0	517.6
30°	2247.6	1880.3	1088.8	601.3	476.5	450.3	448.3	456.2	468.0	477.8	478.4
32.5°	2203.8	1784.9	911.7	505.2	431.4	417.0	416.3	422.2	428.7	431.4	434.0
35°	2186.8	1705.8	749.6	444.4	401.3	392.1	392.1	391.5	394.1	395.4	396.7
37.5°	2200.6	1645.0	624.2	405.2	379.1	372.5	368.6	364.7	363.4	363.4	364.0
40°	2258.7	1613.0	530.7	379.7	363.4	353.6	346.4	341.8	337.2	338.5	339.9
42.5°	2382.3	1618.9	467.3	362.7	349.7	335.9	325.5	320.2	317.0	320.9	320.2
45°	2579.0	1677.7	426.8	351.0	335.9	318.3	308.5	303.3	303.3	309.1	311.1
47.5°	2854.1	1790.1	405.2	341.8	325.5	304.6	294.8	290.8	292.1	301.9	302.6
50°	3190.1	1985.5	401.3	337.2	320.2	294.8	283.6	279.7	283.0	293.5	294.8
52.5°	3560.7	2237.2	420.2	337.9	315.7	288.9	274.5	268.6	271.9	280.4	283.0
55°	3999.9	2552.2	469.3	340.5	309.1	285.6	268.0	254.9	258.8	264.7	265.3
57.5°	4448.2	2949.6	555.5	341.2	303.9	279.7	256.9	239.9	239.9	243.8	245.7
60°	4995.9	3382.2	669.3	341.8	304.6	271.2	241.8	222.9	220.3	222.2	222.9
62.5°	5539.7	3744.3	688.2	339.9	311.1	262.7	225.5	205.9	201.3	200.6	199.3
65°	5779.5	3677.0	564.0	330.7	318.3	257.5	212.4	189.5	181.7	179.1	179.1
67.5°	5388.7	3110.3	424.2	318.3	313.7	252.3	200.0	175.8	166.7	161.4	161.4
69°	5021.4	2766.6	381.0	309.8	301.9	243.8	192.1	168.6	157.5	151.6	149.7
70°	4737.7	2530.0	362.7	302.6	290.8	234.0	186.3	163.4	151.0	144.4	143.1
72.5°	3780.9	1984.9	317.6	275.2	247.7	196.7	165.4	147.1	135.3	128.1	126.1
75°	2179.0	1075.8	263.4	239.2	199.3	152.9	139.9	128.1	118.9	112.4	110.5
77.5°	670.6	415.7	190.8	188.9	146.4	118.3	111.8	107.2	100.6	93.5	92.2
80°	282.3	211.8	129.4	127.4	97.4	82.3	80.4	79.7	77.1	71.2	69.3
82.5°	154.9	119.6	90.2	78.4	58.8	47.7	49.7	50.3	48.4	42.5	38.6
85°	75.8	65.4	43.8	35.3	26.8	17.0	16.3	19.6	18.3	13.1	14.4
87.5°	15.0	18.3	11.8	5.2	2.6	0.0	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)