

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: P382887

Luminaire Tested: **GLEON-SA2C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 13483.2 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

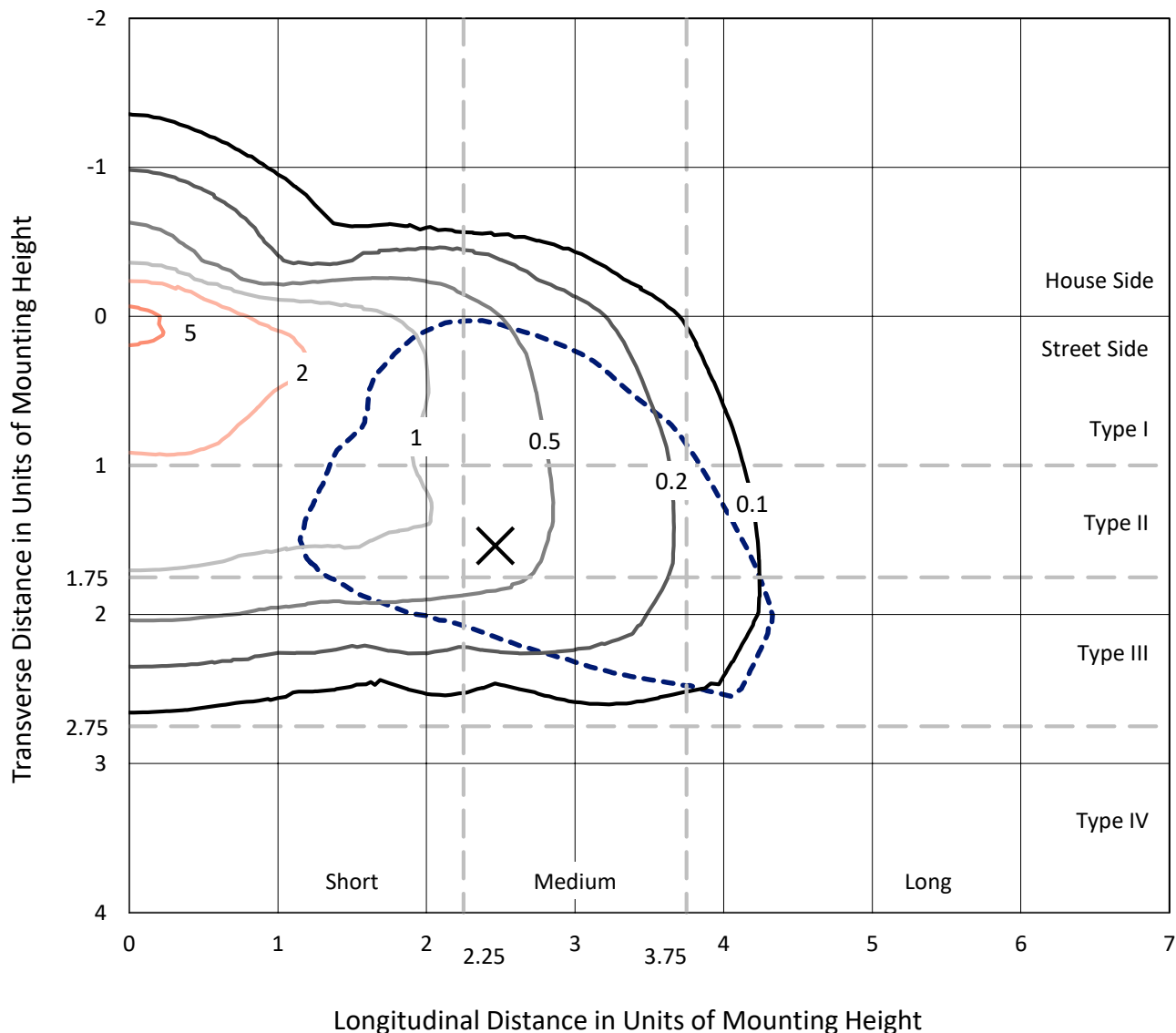
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

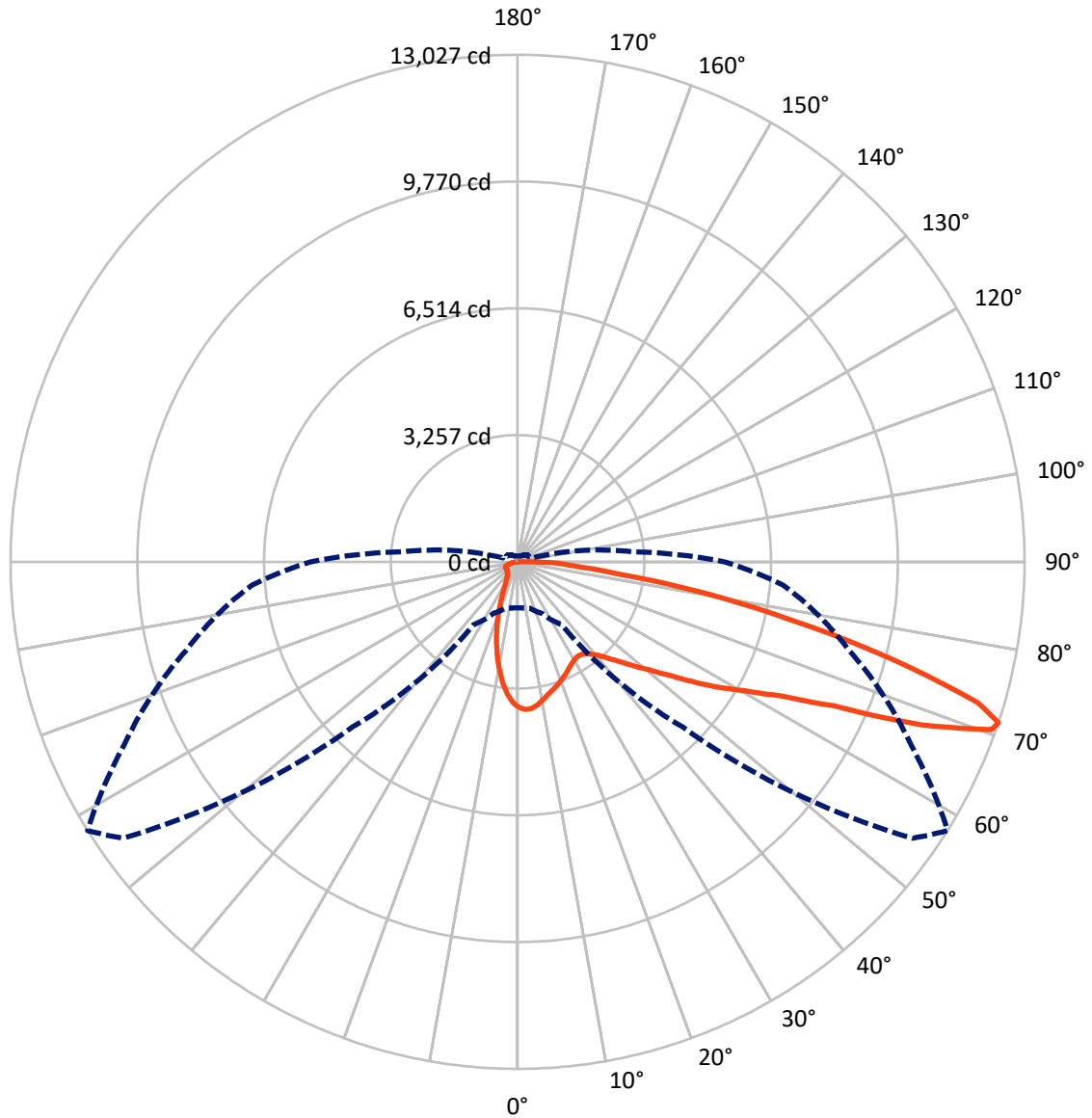
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2015.8	0.0	2015.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11467.4	0.0	11467.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	13483.2	0.0	13483.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	2.4
10°-20°	716.6	5.3
20°-30°	910.8	6.8
30°-40°	1160.1	8.6
40°-50°	1645.1	12.2
50°-60°	2545.9	18.9
60°-70°	3465.9	25.7
70°-80°	2312.2	17.1
80°-90°	404.2	3.0
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°	13483.2	100.0
0°-180°	13483.2	100.0

Coefficient of Utilization

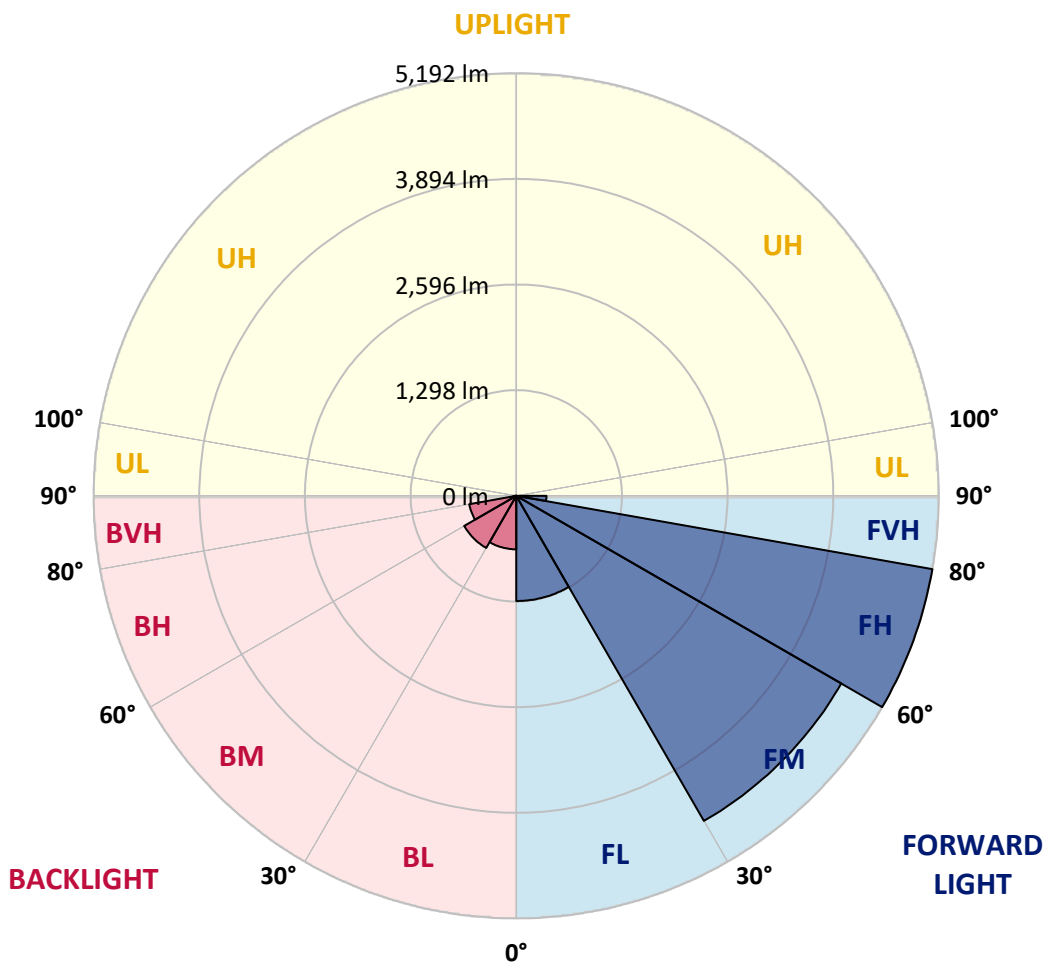


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1292.6	9.6			
FM (30°-60°)	4611.9	34.2			
FH (60°-80°)	5192.2	38.5			G3/7500
FVH (80°-90°)	370.7	2.7			G3/500
BL (0°-30°)	657.1	4.9	B2/1000		
BM (30°-60°)	739.3	5.5	B1/1000		
BH (60°-80°)	585.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8
2.5°	3834.8	3829.7	3831.5	3827.8	3818.9	3809.9	3796.8	3799.1	3780.9	3753.6	3719.8
5°	3762.5	3760.7	3774.7	3782.7	3789.3	3784.1	3780.4	3785.1	3758.3	3720.7	3662.0
7.5°	3610.9	3590.2	3608.0	3634.8	3660.1	3679.4	3704.8	3708.0	3691.2	3651.7	3574.6
10°	3395.2	3375.6	3401.8	3443.7	3494.3	3540.3	3591.6	3601.0	3604.3	3568.6	3475.0
12.5°	3171.6	3156.6	3182.9	3241.7	3325.7	3396.6	3478.4	3492.5	3521.6	3497.6	3383.0
15°	2971.6	2966.0	2997.9	3055.7	3152.5	3260.9	3378.8	3404.6	3454.0	3446.0	3311.2
17.5°	2798.7	2797.3	2821.8	2882.4	2989.4	3126.6	3279.7	3323.4	3396.6	3406.0	3252.0
20°	2670.1	2667.3	2684.2	2728.8	2839.2	2994.6	3172.7	3232.7	3338.4	3371.3	3190.9
22.5°	2601.1	2600.6	2601.1	2622.1	2712.4	2857.0	3068.3	3141.6	3281.6	3343.6	3123.3
25°	2589.3	2587.8	2577.6	2575.2	2626.4	2741.9	2965.0	3045.8	3227.5	3324.3	3058.9
27.5°	2619.8	2621.7	2608.1	2586.0	2596.3	2666.3	2875.3	2961.8	3184.4	3320.6	3014.3
30°	2683.2	2682.3	2670.6	2647.6	2627.3	2638.1	2811.4	2897.9	3155.2	3337.0	2983.8
32.5°	2753.2	2758.4	2756.0	2743.3	2713.3	2670.1	2792.2	2876.7	3146.8	3376.5	2970.7
35°	2837.3	2842.9	2859.9	2869.7	2834.4	2764.9	2833.5	2906.8	3171.2	3450.6	2991.8
37.5°	2917.1	2931.7	2979.1	3020.9	2990.8	2913.3	2943.4	2995.6	3246.8	3567.6	3048.6
40°	3009.2	3021.8	3099.4	3188.1	3183.4	3103.1	3120.5	3155.2	3380.2	3735.3	3151.5
42.5°	3099.8	3125.2	3237.4	3363.3	3399.5	3328.5	3356.3	3374.5	3568.1	3957.4	3330.9
45°	3220.5	3247.7	3403.7	3555.4	3639.9	3600.1	3644.2	3651.2	3804.3	4259.9	3591.6
47.5°	3403.2	3434.2	3616.0	3775.2	3904.4	3908.6	3981.4	3978.5	4099.3	4606.0	3919.9
50°	3687.8	3732.4	3881.4	4030.2	4187.1	4274.5	4371.7	4358.1	4453.0	4974.7	4298.0
52.5°	4060.8	4081.4	4191.8	4301.7	4496.6	4692.5	4831.9	4819.7	4854.0	5353.8	4727.2
55°	4447.3	4462.8	4508.3	4568.5	4830.5	5150.0	5444.9	5425.6	5338.7	5747.4	5151.4
57.5°	4794.9	4826.3	4857.8	4882.7	5166.8	5628.0	6071.9	6073.3	5864.7	6172.0	5589.6
60°	4848.9	4876.6	5084.7	5280.9	5742.2	6265.9	6743.0	6728.9	6409.1	6632.7	6078.0
62.5°	4286.2	4348.7	4696.2	5218.5	6296.4	7432.5	7599.3	7581.9	7060.1	7200.5	6646.8
65°	3071.7	3142.6	3562.0	4346.8	6027.8	8718.0	9144.4	8910.5	7947.8	7898.9	7312.7
67.5°	1772.1	1788.9	1970.7	2601.1	4589.6	8785.1	11501.7	11174.4	9326.2	8691.2	7638.7
70°	1310.4	1309.9	1353.1	1600.7	2483.6	7169.9	12622.8	12916.4	10777.5	8951.9	7177.9
71°	1185.0	1186.4	1234.8	1456.9	1967.0	6001.4	12384.7	13027.2	11159.8	8823.2	6844.5
72.5°	1013.5	1018.3	1085.4	1306.6	1654.6	4138.8	11358.9	12362.2	11341.1	8505.7	6322.7
75°	768.8	779.6	872.7	1101.4	1512.4	2099.0	8336.6	9871.5	10074.9	7505.3	4698.1
77.5°	548.6	560.8	666.0	926.1	1437.7	1581.9	5583.0	7200.5	7414.2	4809.9	2119.2
80°	346.6	361.2	440.5	736.9	1350.7	1502.0	3508.4	4839.9	4042.9	1539.1	539.2
82.5°	203.4	214.6	273.3	481.4	1103.2	1446.6	2064.2	2682.8	1573.4	464.9	245.2
85°	117.8	123.1	170.5	306.7	801.2	1365.4	1516.6	1499.7	682.9	227.3	116.0
87.5°	55.0	61.0	101.0	160.1	444.8	989.6	1198.6	1035.6	424.6	106.6	54.5
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°	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8	3735.8
2.5°	3703.4	3695.4	3662.0	3632.4	3601.5	3561.0	3516.4	3510.8	3483.5	3488.7	3479.3
5°	3630.1	3609.8	3529.5	3456.8	3370.8	3293.8	3210.2	3171.6	3116.2	3112.5	3098.4
7.5°	3525.3	3487.8	3363.3	3225.2	3087.1	2955.6	2825.6	2740.1	2652.7	2615.6	2612.3
10°	3407.4	3343.6	3160.4	2956.1	2756.9	2564.8	2378.9	2241.3	2117.3	2058.5	2056.2
12.5°	3295.6	3201.3	2950.0	2672.0	2399.6	2150.7	1895.6	1714.8	1559.3	1507.2	1485.1
15°	3200.8	3067.9	2745.2	2389.7	2059.0	1713.4	1423.1	1232.9	1089.2	1039.4	1030.0
17.5°	3108.8	2937.8	2535.3	2104.6	1704.9	1324.9	1034.2	892.9	816.3	796.1	795.6
20°	3017.2	2804.0	2315.9	1812.9	1362.5	991.0	795.2	731.7	705.9	703.6	699.8
22.5°	2913.3	2662.1	2085.4	1520.3	1063.4	779.1	675.8	650.5	647.2	655.6	655.6
25°	2816.2	2521.2	1851.5	1233.8	827.1	650.0	603.5	598.3	607.3	622.3	623.8
27.5°	2725.5	2385.4	1623.2	979.2	662.7	572.5	553.2	559.4	575.3	592.7	593.2
30°	2650.8	2257.2	1401.5	771.7	559.9	514.8	511.5	523.7	541.0	554.6	558.0
32.5°	2593.1	2147.8	1187.4	620.4	492.7	471.5	474.3	484.7	495.5	503.0	508.2
35°	2566.3	2053.9	989.6	523.3	449.9	438.2	441.9	447.6	452.3	457.9	462.1
37.5°	2571.0	1981.0	813.0	462.6	421.3	415.2	415.2	415.2	415.2	418.0	418.5
40°	2614.7	1939.3	669.3	424.1	402.1	395.4	390.3	385.6	381.8	383.7	382.8
42.5°	2726.5	1935.5	564.1	399.7	386.5	375.7	365.4	358.8	354.2	356.0	357.0
45°	2916.2	1982.5	493.2	382.3	372.0	355.6	342.3	335.4	332.1	338.2	339.1
47.5°	3161.9	2084.9	449.9	369.6	358.4	336.8	322.7	316.1	317.0	325.9	328.3
50°	3478.4	2251.1	429.3	361.6	349.0	320.8	306.2	300.6	303.4	316.1	318.9
52.5°	3826.0	2490.7	431.6	359.3	342.9	309.1	293.5	287.0	291.7	303.4	305.7
55°	4227.0	2778.5	470.6	362.6	334.0	301.5	283.2	271.9	275.7	286.5	288.4
57.5°	4672.7	3108.3	549.1	361.6	322.7	294.5	272.4	255.5	258.3	264.9	266.8
60°	5136.7	3506.5	670.7	364.4	317.5	286.0	257.9	236.7	235.8	241.4	242.4
62.5°	5693.8	3967.3	809.7	366.4	320.8	275.3	238.6	217.9	215.1	216.5	217.4
65°	6267.7	4300.8	757.5	358.8	331.1	266.3	221.7	199.6	194.4	193.5	193.9
67.5°	6285.6	3943.3	531.2	343.8	335.4	261.6	209.0	184.1	175.7	172.3	171.9
70°	5637.0	3203.6	413.8	327.8	318.4	254.1	197.3	171.4	158.7	153.6	153.1
71°	5320.4	2949.1	392.2	319.8	305.7	246.6	192.1	165.8	152.7	147.0	146.1
72.5°	4824.0	2643.7	365.9	307.1	281.3	227.3	182.2	157.8	144.2	137.6	136.2
75°	3461.9	1728.9	314.2	273.8	233.0	181.3	159.7	141.9	130.1	122.1	121.2
77.5°	1333.9	688.0	237.6	227.8	178.5	141.9	131.5	122.6	114.1	106.1	105.6
80°	412.4	307.6	173.3	171.4	129.2	105.6	102.4	100.0	96.8	88.3	86.4
82.5°	220.3	176.6	119.3	110.9	84.6	70.4	74.2	75.2	75.6	66.7	65.8
85°	105.2	93.4	67.2	63.0	49.3	39.5	45.6	49.3	49.7	40.9	38.0
87.5°	50.2	48.8	31.5	23.9	18.4	13.1	15.9	19.7	21.6	15.5	13.6
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)