

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: P453460

Luminaire Tested: **GALN-SA4C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453460
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-SA4C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23065 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

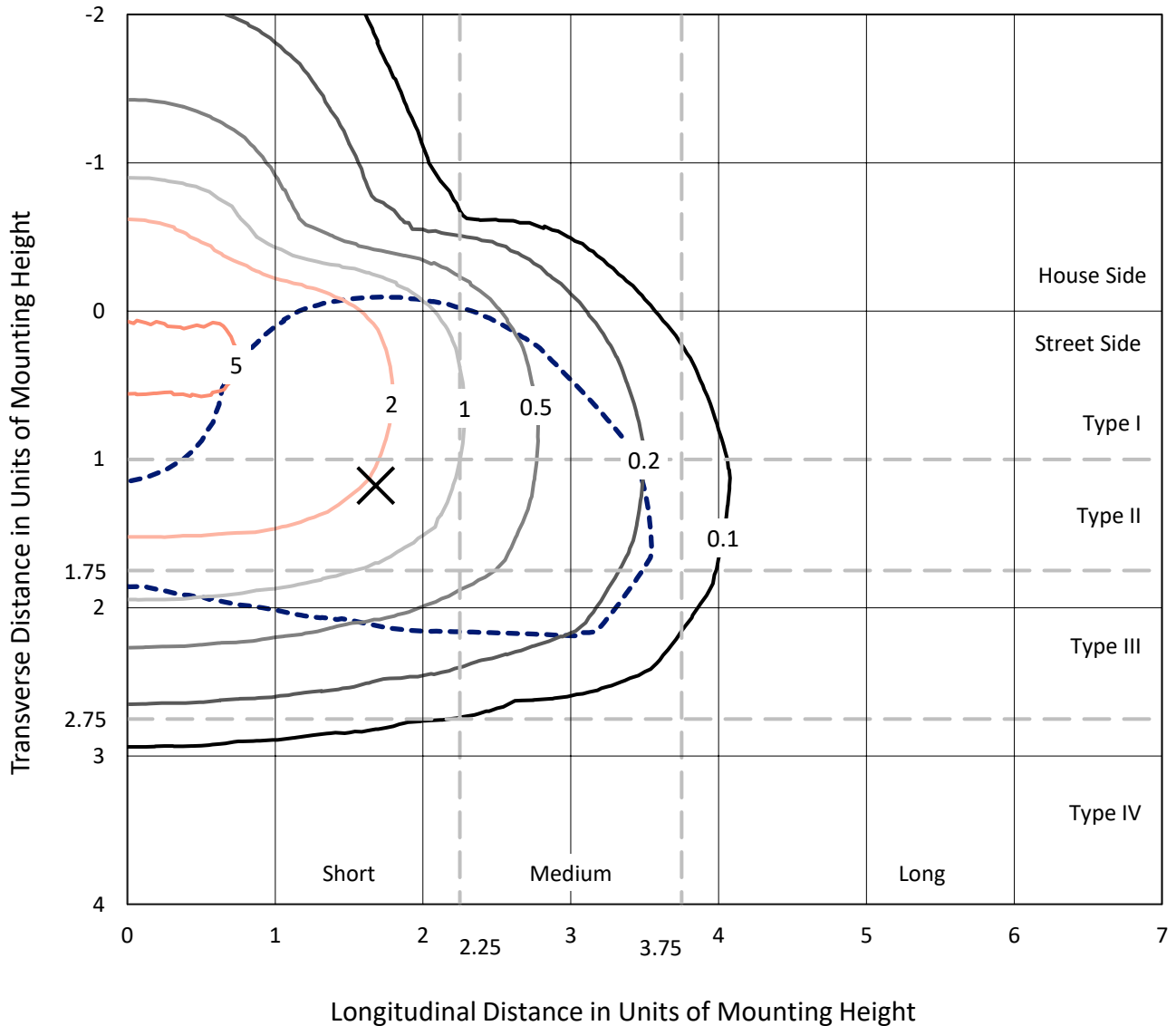
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

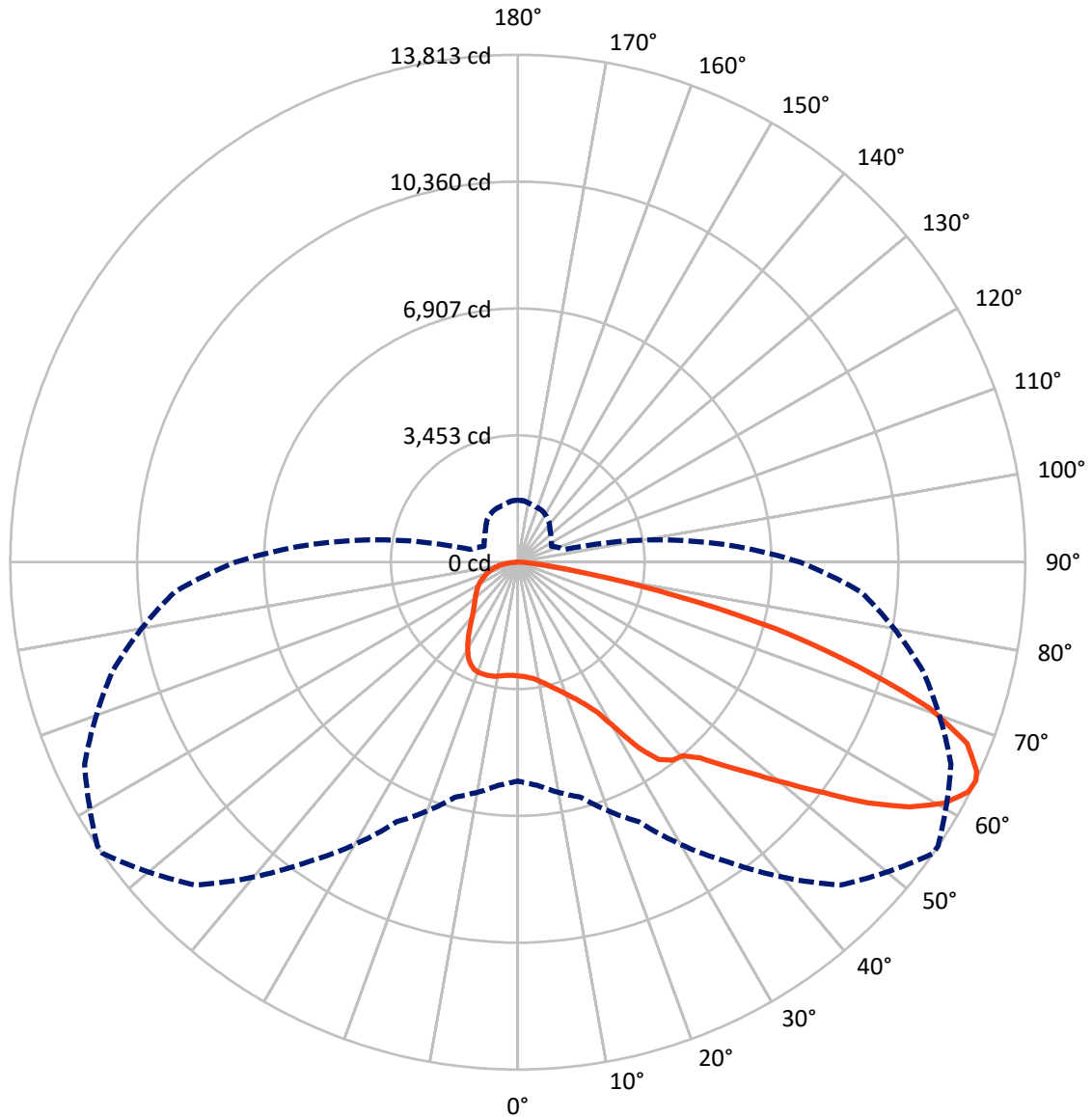
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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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	5602.9	0.0	5602.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17462.1	0.0	17462.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	23065.0	0.0	23065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	1.3
10°-20°	949.8	4.1
20°-30°	1690.9	7.3
30°-40°	2601.7	11.3
40°-50°	3688.1	16.0
50°-60°	5338.4	23.1
60°-70°	5524.7	24.0
70°-80°	2587.2	11.2
80°-90°	383.0	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°	23065.0	100.0
0°-180°	23065.0	100.0

Coefficient of Utilization



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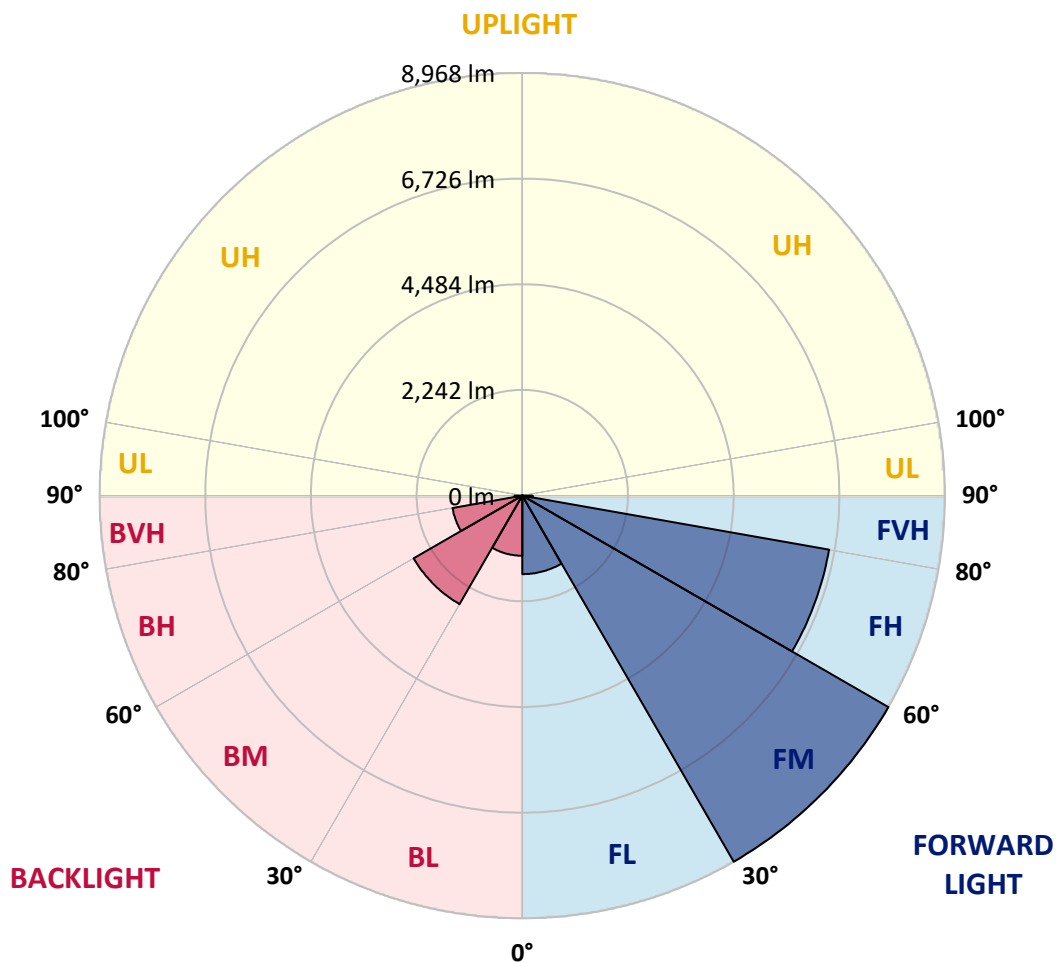
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.7	7.2			
FM	(30°-60°)	8968.3	38.9			
FH	(60°-80°)	6608.8	28.7			G3/7500
FVH	(80°-90°)	219.3	1.0			G2/225
BL	(0°-30°)	1276.1	5.5	B3/2500		
BM	(30°-60°)	2659.9	11.5	B3/5000		
BH	(60°-80°)	1503.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	163.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6
2.5°	3129.3	3128.1	3131.9	3128.1	3130.6	3121.6	3117.8	3120.3	3116.5	3110.1	3098.5
5°	3167.9	3166.6	3167.9	3162.8	3165.3	3160.2	3151.2	3153.8	3147.3	3133.2	3116.5
7.5°	3233.5	3228.3	3228.3	3227.1	3221.9	3214.2	3207.8	3205.2	3198.8	3180.8	3155.1
10°	3318.3	3318.3	3319.6	3309.3	3315.8	3301.6	3295.2	3293.9	3272.1	3248.9	3212.9
12.5°	3430.2	3436.6	3432.8	3427.6	3425.0	3419.9	3398.0	3403.2	3378.8	3338.9	3295.2
15°	3569.0	3579.3	3572.9	3570.3	3563.9	3544.6	3535.6	3531.8	3499.6	3441.8	3383.9
17.5°	3752.9	3740.0	3734.9	3728.5	3701.5	3687.3	3671.9	3669.3	3641.0	3572.9	3482.9
20°	3913.6	3931.6	3921.3	3914.9	3887.9	3860.9	3849.3	3845.5	3821.0	3746.5	3602.5
22.5°	4105.2	4109.0	4112.9	4097.5	4084.6	4064.0	4043.5	4037.0	4028.0	3950.9	3774.8
25°	4309.6	4325.0	4312.2	4296.7	4281.3	4280.0	4299.3	4296.7	4292.9	4218.3	4003.6
27.5°	4642.6	4656.7	4660.6	4643.9	4584.7	4589.9	4633.6	4647.7	4706.9	4583.4	4298.0
30°	4830.3	4844.4	4876.6	4939.6	5033.4	5115.7	5221.1	5253.3	5309.8	5077.1	4647.7
32.5°	4946.0	4951.1	5009.0	5126.0	5407.6	5714.8	6001.5	6013.1	6049.1	5722.6	4967.9
35°	5128.6	5132.4	5178.7	5307.3	5637.7	6149.4	6593.0	6607.1	6577.5	5923.1	5117.0
37.5°	5353.6	5363.8	5393.4	5500.1	5894.8	6513.2	6838.5	6828.2	6566.0	6082.5	5380.6
40°	5681.4	5681.4	5646.7	5790.7	6166.1	6721.5	6924.7	6906.7	6837.2	6544.1	5781.7
42.5°	5970.7	5965.5	6047.8	6145.5	6505.5	7042.9	7285.9	7315.5	7429.9	7123.9	6238.1
45°	6347.4	6370.5	6416.8	6594.2	7082.8	7591.9	7905.6	7933.9	8095.9	7806.6	6771.7
47.5°	6728.0	6735.7	6880.9	7117.5	7797.6	8336.3	8593.5	8639.8	8787.6	8605.0	7346.4
50°	6997.9	7071.2	7303.9	7676.8	8534.3	9244.0	9444.6	9499.9	9760.9	9474.2	8016.2
52.5°	7283.4	7355.4	7639.5	8207.8	9380.3	10172.3	10419.1	10456.4	10727.7	10353.6	8701.5
55°	7527.6	7594.5	7917.2	8678.3	10054.0	11119.8	11567.2	11523.5	11653.4	11031.1	9229.9
57.5°	7567.5	7621.5	8027.8	8979.2	10560.6	11932.4	12573.9	12599.6	12449.2	11537.7	9665.7
60°	7258.9	7369.5	7836.2	8947.0	10788.1	12498.1	13324.8	13342.8	12915.9	11797.4	9839.3
62.5°	6712.5	6701.0	7265.4	8430.2	10469.3	12626.6	13767.0	13747.8	13098.5	11672.7	9670.9
64°	5957.8	6096.7	6623.8	7795.1	9955.0	12428.6	13813.3	13803.0	13011.1	11413.0	9384.2
65°	5497.6	5489.8	6010.5	7275.7	9443.3	12130.4	13731.0	13716.9	12828.5	11180.3	9161.7
67.5°	3968.9	3986.9	4501.2	5614.6	7676.8	10964.3	13194.9	13142.2	12108.5	10408.8	8315.8
70°	2404.2	2414.5	2818.2	3724.6	5510.4	8863.5	11893.8	11896.4	11006.7	9256.9	7077.7
72.5°	1266.4	1293.4	1455.4	2114.9	3346.6	6218.8	9649.0	9877.9	9449.7	7900.5	5591.4
75°	704.6	708.4	822.8	1042.7	1707.4	3480.3	7252.5	7318.1	7481.4	6359.0	4134.7
77.5°	537.4	545.1	581.1	673.7	929.5	1613.5	4389.3	4718.4	5272.6	4483.2	2359.2
80°	435.8	443.6	474.4	529.7	618.4	765.0	2039.1	2216.5	2822.1	1990.2	920.5
82.5°	339.4	334.3	374.1	410.1	450.0	452.6	837.0	925.7	1149.4	856.3	398.6
85°	252.0	252.0	284.1	276.4	290.6	264.8	369.0	407.6	460.3	363.8	185.1
87.5°	100.3	110.6	186.4	167.1	129.9	104.1	136.3	144.0	159.4	142.7	77.1
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°	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6
2.5°	3099.8	3103.6	3094.6	3088.2	3085.6	3081.8	3077.9	3079.2	3084.3	3089.5	3088.2
5°	3115.2	3116.5	3101.1	3093.3	3088.2	3083.1	3083.1	3086.9	3097.2	3104.9	3104.9
7.5°	3153.8	3153.8	3131.9	3117.8	3110.1	3101.1	3098.5	3099.8	3107.5	3117.8	3119.1
10°	3214.2	3209.1	3180.8	3158.9	3144.8	3122.9	3103.6	3093.3	3097.2	3103.6	3103.6
12.5°	3287.5	3273.3	3237.3	3207.8	3173.1	3131.9	3092.1	3071.5	3070.2	3076.6	3074.1
15°	3365.9	3350.5	3300.3	3246.3	3185.9	3125.5	3077.9	3048.3	3025.2	3018.8	3032.9
17.5°	3457.2	3425.0	3355.6	3281.1	3191.1	3112.6	3038.1	2977.6	2936.5	2924.9	2928.8
20°	3567.8	3525.3	3431.5	3314.5	3187.2	3066.3	2950.6	2869.6	2802.8	2782.2	2784.8
22.5°	3720.8	3647.5	3509.9	3331.2	3155.1	2978.9	2818.2	2712.8	2631.8	2599.6	2618.9
25°	3894.3	3814.6	3584.5	3327.3	3071.5	2838.8	2661.4	2523.8	2450.5	2402.9	2413.2
27.5°	4133.5	3992.0	3664.2	3292.6	2951.9	2667.8	2462.1	2332.2	2265.4	2240.9	2252.5
30°	4439.4	4222.2	3750.3	3198.8	2762.9	2451.8	2261.5	2176.7	2136.8	2105.9	2116.2
32.5°	4660.6	4384.2	3769.6	3040.6	2558.5	2255.1	2125.2	2062.2	2018.5	1988.9	1995.4
35°	4818.7	4521.7	3760.6	2846.5	2345.1	2093.1	2017.2	1965.8	1895.1	1830.8	1819.2
37.5°	5030.9	4694.0	3695.0	2634.4	2134.2	1983.8	1929.8	1834.7	1733.1	1647.0	1643.1
40°	5356.1	4895.9	3554.9	2384.9	1954.2	1902.8	1837.2	1713.8	1604.5	1535.1	1530.0
42.5°	5691.7	5082.3	3364.6	2122.7	1806.4	1817.9	1738.2	1616.1	1549.2	1504.2	1499.1
45°	6101.8	5284.1	3158.9	1895.1	1697.1	1738.2	1652.1	1581.4	1541.5	1512.0	1504.2
47.5°	6545.4	5491.1	2927.5	1690.7	1604.5	1665.0	1616.1	1584.0	1562.1	1541.5	1532.5
50°	7023.7	5722.6	2710.2	1526.1	1521.0	1589.1	1612.2	1600.7	1587.8	1581.4	1573.7
52.5°	7548.2	5959.1	2527.6	1410.4	1447.7	1535.1	1613.5	1622.5	1622.5	1618.7	1613.5
55°	7903.1	6123.7	2342.5	1316.5	1373.1	1491.4	1611.0	1645.7	1658.5	1653.4	1648.2
57.5°	8165.3	6213.7	2109.8	1235.5	1310.1	1449.0	1596.8	1648.2	1661.1	1667.5	1665.0
60°	8219.3	6130.1	1805.1	1150.7	1242.0	1387.2	1545.4	1609.7	1626.4	1666.2	1670.1
62.5°	7976.3	5873.0	1501.7	1067.1	1158.4	1293.4	1476.0	1566.0	1599.4	1661.1	1667.5
64°	7678.1	5585.0	1333.2	1014.4	1104.4	1240.7	1441.2	1554.4	1598.1	1680.4	1685.5
65°	7459.5	5375.4	1227.8	981.0	1069.7	1206.0	1422.0	1558.2	1609.7	1710.0	1717.7
67.5°	6654.7	4654.2	1015.7	902.5	987.4	1146.8	1425.8	1590.4	1607.1	1721.5	1720.2
70°	5506.6	3705.3	851.1	830.5	907.7	1099.3	1410.4	1539.0	1540.2	1616.1	1598.1
72.5°	4123.2	2738.5	738.0	756.0	819.0	986.1	1332.0	1469.5	1447.7	1458.0	1440.0
75°	2832.3	1811.5	635.1	676.3	726.4	871.7	1221.4	1334.5	1299.8	1287.0	1274.1
77.5°	1512.0	1001.5	528.4	597.8	631.3	753.4	1065.8	1175.1	1139.1	1089.0	1072.3
80°	612.0	471.8	425.6	495.0	514.3	606.8	887.1	955.3	928.3	840.8	812.5
82.5°	307.3	282.8	334.3	389.6	390.8	433.3	659.6	723.8	663.4	556.7	532.3
85°	160.7	165.9	230.1	273.8	241.7	234.0	396.0	438.4	402.4	349.7	315.0
87.5°	57.9	66.9	120.9	119.6	84.9	45.0	87.4	42.4	23.1	14.1	18.0
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)