

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: P453982

Luminaire Tested: **GALN-SA5A-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453982
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-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22711 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

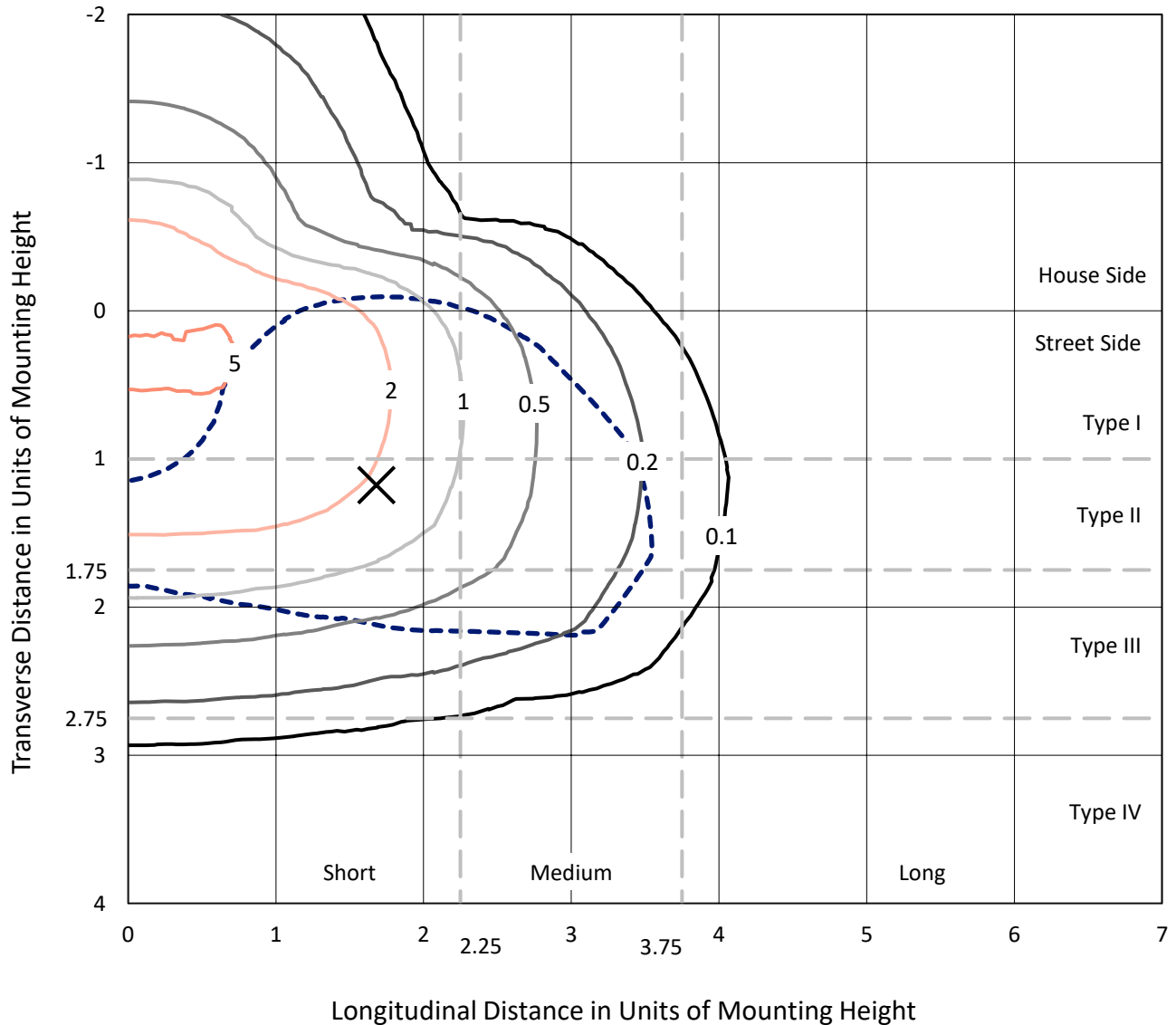
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

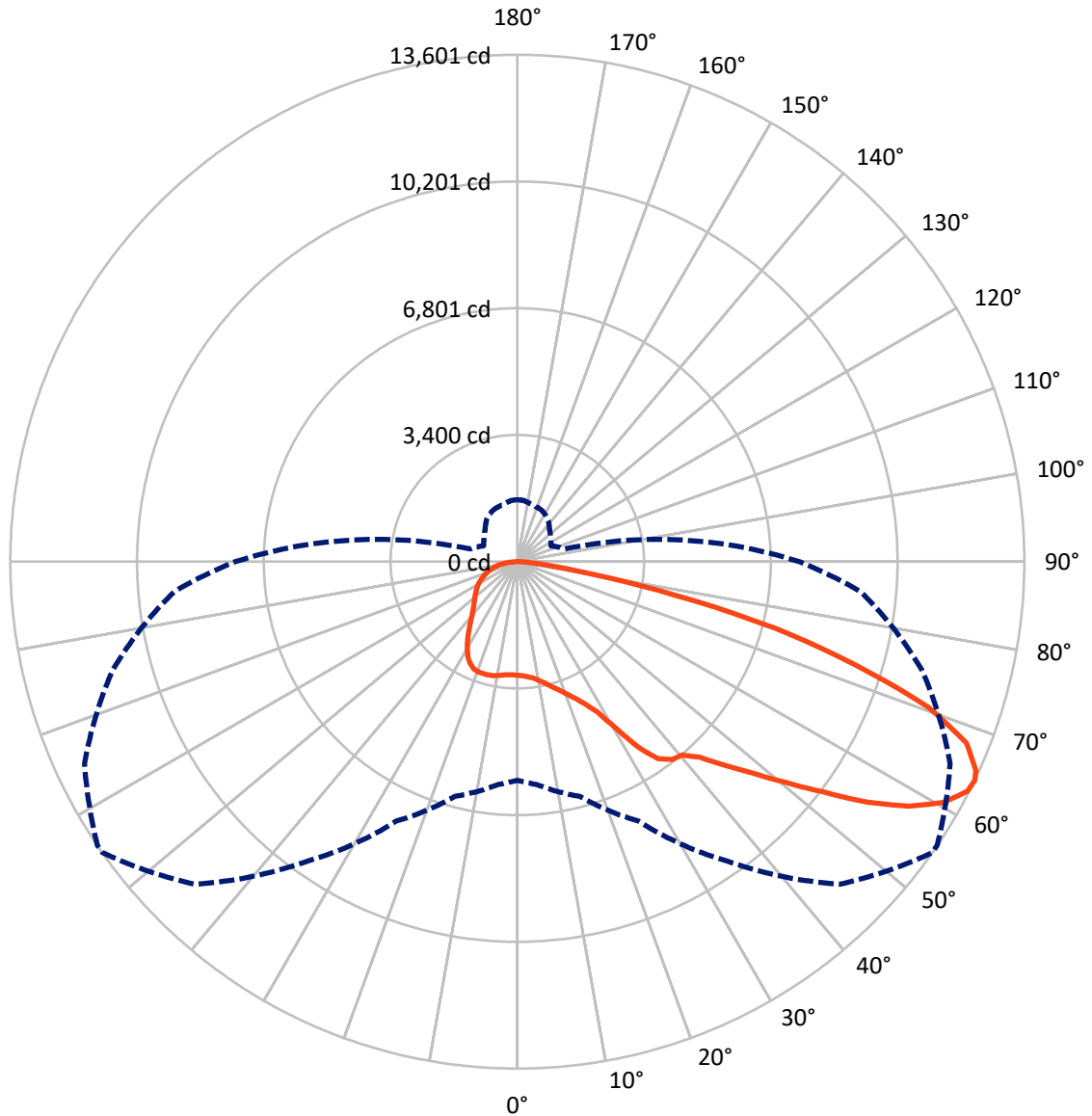
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5516.9	0.0	5516.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17194.1	0.0	17194.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	22711.0	0.0	22711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.3
10°-20°	935.2	4.1
20°-30°	1665.0	7.3
30°-40°	2561.8	11.3
40°-50°	3631.5	16.0
50°-60°	5256.5	23.1
60°-70°	5439.9	24.0
70°-80°	2547.5	11.2
80°-90°	377.1	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°	22711.0	100.0
0°-180°	22711.0	100.0

Coefficient of Utilization



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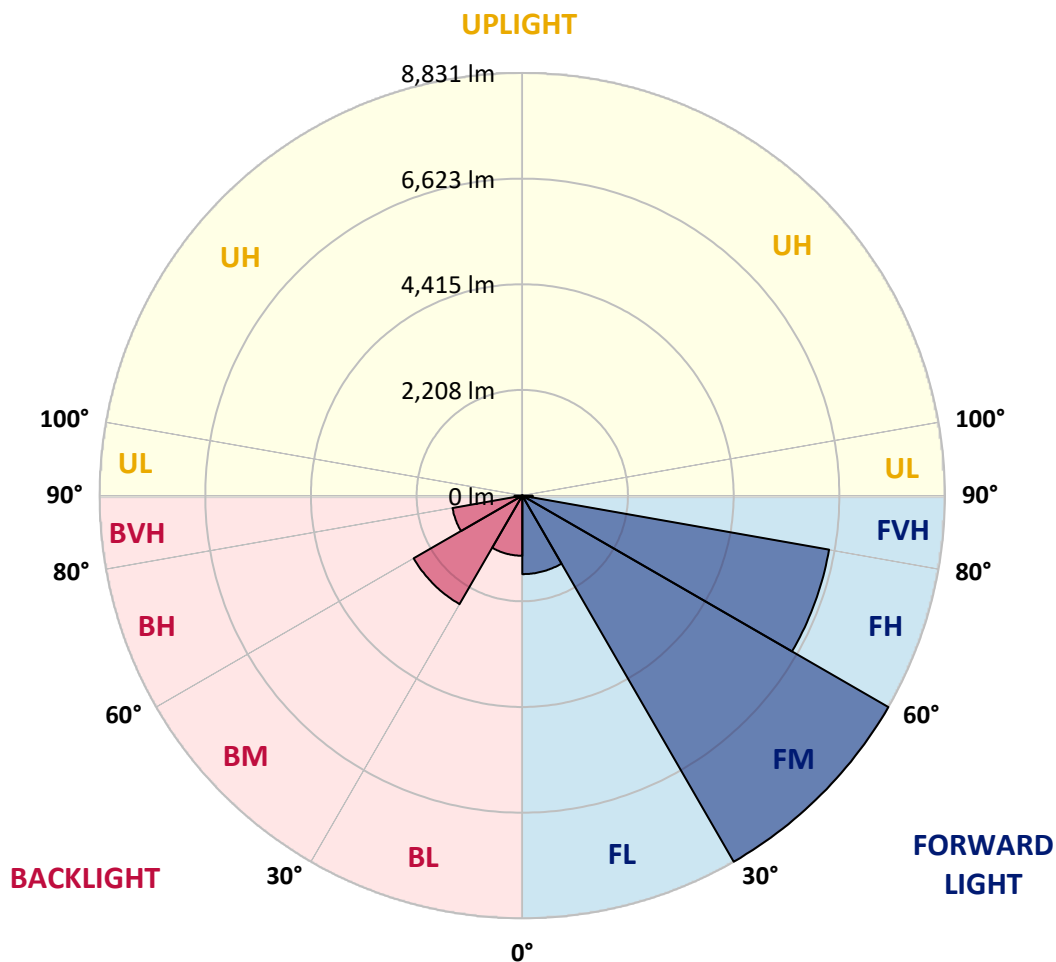
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.1	7.2			
FM	(30°-60°)	8830.7	38.9			
FH	(60°-80°)	6507.4	28.7			G3/7500
FVH	(80°-90°)	215.9	1.0			G2/225
BL	(0°-30°)	1256.5	5.5	B3/2500		
BM	(30°-60°)	2619.1	11.5	B3/5000		
BH	(60°-80°)	1480.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	161.2	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°	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1
2.5°	3081.3	3080.0	3083.8	3080.0	3082.6	3073.7	3069.9	3072.4	3068.7	3062.3	3050.9
5°	3119.3	3118.0	3119.3	3114.2	3116.8	3111.7	3102.8	3105.4	3099.0	3085.1	3068.7
7.5°	3183.9	3178.8	3178.8	3177.5	3172.5	3164.9	3158.5	3156.0	3149.7	3131.9	3106.6
10°	3267.4	3267.4	3268.7	3258.5	3264.9	3250.9	3244.6	3243.4	3221.8	3199.0	3163.6
12.5°	3377.5	3383.9	3380.1	3375.0	3372.5	3367.4	3345.9	3351.0	3326.9	3287.7	3244.6
15°	3514.3	3524.4	3518.1	3515.5	3509.2	3490.2	3481.3	3477.6	3445.9	3388.9	3332.0
17.5°	3695.3	3682.6	3677.6	3671.2	3644.7	3630.7	3615.5	3613.0	3585.2	3518.1	3429.4
20°	3853.5	3871.3	3861.1	3854.8	3828.2	3801.6	3790.2	3786.4	3762.4	3689.0	3547.2
22.5°	4042.2	4046.0	4049.8	4034.6	4021.9	4001.7	3981.4	3975.1	3966.2	3890.3	3716.8
25°	4243.4	4258.6	4246.0	4230.8	4215.6	4214.3	4233.3	4230.8	4227.0	4153.6	3942.2
27.5°	4571.3	4585.3	4589.1	4572.6	4514.4	4519.4	4562.5	4576.4	4634.6	4513.1	4232.1
30°	4756.2	4770.1	4801.7	4863.8	4956.2	5037.2	5141.0	5172.7	5228.4	4999.2	4576.4
32.5°	4870.1	4875.2	4932.1	5047.3	5324.6	5627.1	5909.4	5920.8	5956.3	5634.7	4891.6
35°	5049.9	5053.7	5099.2	5225.8	5551.2	6055.0	6491.8	6505.7	6476.6	5832.2	5038.5
37.5°	5271.4	5281.5	5310.6	5415.7	5804.4	6413.3	6733.6	6723.4	6465.2	5989.2	5298.0
40°	5594.2	5594.2	5560.0	5701.8	6071.5	6618.4	6818.4	6800.7	6732.3	6443.7	5693.0
42.5°	5879.1	5874.0	5955.0	6051.2	6405.7	6934.8	7174.1	7203.2	7315.9	7014.6	6142.4
45°	6250.0	6272.8	6318.3	6493.0	6974.1	7475.4	7784.3	7812.1	7971.7	7686.8	6667.7
47.5°	6624.7	6632.3	6775.3	7008.3	7678.0	8208.4	8461.6	8507.2	8652.7	8473.0	7233.6
50°	6890.5	6962.7	7191.8	7559.0	8403.3	9102.1	9299.6	9354.1	9611.1	9328.8	7893.2
52.5°	7171.6	7242.5	7522.2	8081.8	9236.3	10016.2	10259.2	10295.9	10563.0	10194.7	8567.9
55°	7412.1	7477.9	7795.7	8545.1	9899.7	10949.2	11389.7	11346.7	11474.5	10861.8	9088.2
57.5°	7451.4	7504.5	7904.6	8841.4	10398.5	11749.2	12380.9	12406.3	12258.1	11360.6	9517.4
60°	7147.5	7256.4	7715.9	8809.7	10622.5	12306.3	13120.3	13138.0	12717.7	11616.3	9688.3
62.5°	6609.5	6598.1	7153.9	8300.8	10308.6	12432.9	13555.7	13536.8	12897.5	11493.5	9522.4
64°	5866.4	6003.1	6522.2	7675.4	9802.2	12237.9	13601.3	13591.2	12811.4	11237.8	9240.1
65°	5413.2	5405.6	5918.3	7164.0	9298.4	11944.2	13520.3	13506.4	12631.6	11008.7	9021.1
67.5°	3908.0	3925.7	4432.1	5528.4	7559.0	10796.0	12992.4	12940.5	11922.7	10249.1	8188.1
70°	2367.3	2377.4	2775.0	3667.4	5425.8	8727.4	11711.3	11713.8	10837.8	9114.8	6969.0
72.5°	1247.0	1273.5	1433.1	2082.5	3295.3	6123.4	9500.9	9726.3	9304.7	7779.2	5505.6
75°	693.7	697.5	810.2	1026.7	1681.2	3426.9	7141.2	7205.8	7366.5	6261.4	4071.3
77.5°	529.2	536.8	572.2	663.4	915.3	1588.8	4321.9	4646.0	5191.6	4414.4	2323.0
80°	429.2	436.8	467.1	521.6	608.9	753.2	2007.8	2182.5	2778.8	1959.7	906.4
82.5°	334.2	329.1	368.4	403.8	443.1	445.6	824.1	911.5	1131.8	843.1	392.4
85°	248.1	248.1	279.8	272.2	286.1	260.8	363.3	401.3	453.2	358.3	182.3
87.5°	98.7	108.9	183.6	164.6	127.9	102.5	134.2	141.8	157.0	140.5	76.0
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°	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1	3047.1
2.5°	3052.2	3056.0	3047.1	3040.8	3038.3	3034.5	3030.7	3031.9	3037.0	3042.1	3040.8
5°	3067.4	3068.7	3053.5	3045.9	3040.8	3035.7	3035.7	3039.5	3049.7	3057.3	3057.3
7.5°	3105.4	3105.4	3083.8	3069.9	3062.3	3053.5	3050.9	3052.2	3059.8	3069.9	3071.2
10°	3164.9	3159.8	3131.9	3110.4	3096.5	3075.0	3056.0	3045.9	3049.7	3056.0	3056.0
12.5°	3237.0	3223.1	3187.7	3158.5	3124.4	3083.8	3044.6	3024.3	3023.1	3029.4	3026.9
15°	3314.2	3299.1	3249.7	3196.5	3137.0	3077.5	3030.7	3001.6	2978.8	2972.4	2986.4
17.5°	3404.1	3372.5	3304.1	3230.7	3142.1	3064.9	2991.4	2931.9	2891.4	2880.0	2883.8
20°	3513.0	3471.2	3378.8	3263.6	3138.3	3019.3	2905.3	2825.6	2759.8	2739.5	2742.0
22.5°	3663.6	3591.5	3456.0	3280.1	3106.6	2933.2	2775.0	2671.1	2591.4	2559.7	2578.7
25°	3834.5	3756.1	3529.5	3276.3	3024.3	2795.2	2620.5	2485.1	2412.9	2366.1	2376.2
27.5°	4070.0	3930.8	3607.9	3242.1	2906.6	2626.8	2424.3	2296.4	2230.6	2206.5	2217.9
30°	4371.3	4157.4	3692.8	3149.7	2720.5	2414.2	2226.8	2143.2	2104.0	2073.6	2083.7
32.5°	4589.1	4316.9	3711.8	2994.0	2519.2	2220.5	2092.6	2030.6	1987.5	1958.4	1964.7
35°	4744.8	4452.3	3702.9	2802.8	2309.1	2061.0	1986.3	1935.6	1866.0	1802.7	1791.3
37.5°	4953.6	4622.0	3638.3	2593.9	2101.5	1953.4	1900.2	1806.5	1706.5	1621.7	1617.9
40°	5273.9	4820.7	3500.3	2348.3	1924.2	1873.6	1809.0	1687.5	1579.9	1511.5	1506.5
42.5°	5604.3	5004.3	3313.0	2090.1	1778.7	1790.0	1711.6	1591.3	1525.5	1481.2	1476.1
45°	6008.2	5203.0	3110.4	1866.0	1671.0	1711.6	1626.7	1557.1	1517.9	1488.8	1481.2
47.5°	6444.9	5406.9	2882.6	1664.7	1579.9	1639.4	1591.3	1559.6	1538.1	1517.9	1509.0
50°	6915.9	5634.7	2668.6	1502.7	1497.6	1564.7	1587.5	1576.1	1563.4	1557.1	1549.5
52.5°	7432.4	5867.7	2488.8	1388.7	1425.5	1511.5	1588.8	1597.6	1597.6	1593.8	1588.8
55°	7781.8	6029.7	2306.6	1296.3	1352.0	1468.5	1586.2	1620.4	1633.1	1628.0	1622.9
57.5°	8040.0	6118.3	2077.4	1216.6	1290.0	1426.7	1572.3	1622.9	1635.6	1641.9	1639.4
60°	8093.2	6036.0	1777.4	1133.0	1222.9	1366.0	1521.7	1585.0	1601.4	1640.7	1644.5
62.5°	7853.9	5782.8	1478.6	1050.7	1140.6	1273.5	1453.3	1541.9	1574.8	1635.6	1641.9
64°	7560.2	5499.3	1312.8	998.8	1087.4	1221.6	1419.1	1530.5	1573.6	1654.6	1659.7
65°	7345.0	5292.9	1209.0	965.9	1053.3	1187.5	1400.1	1534.3	1585.0	1683.7	1691.3
67.5°	6552.5	4582.7	1000.1	888.7	972.2	1129.2	1403.9	1566.0	1582.4	1695.1	1693.8
70°	5422.0	3648.5	838.1	817.8	893.8	1082.4	1388.7	1515.3	1516.6	1591.3	1573.6
72.5°	4059.9	2696.5	726.7	744.4	806.4	971.0	1311.5	1447.0	1425.5	1435.6	1417.9
75°	2788.9	1783.7	625.4	665.9	715.3	858.3	1202.6	1314.1	1279.9	1267.2	1254.6
77.5°	1488.8	986.2	520.3	588.7	621.6	741.8	1049.5	1157.1	1121.6	1072.3	1055.8
80°	602.6	464.6	419.0	487.4	506.4	597.5	873.5	940.6	914.0	827.9	800.1
82.5°	302.6	278.5	329.1	383.6	384.8	426.6	649.4	712.7	653.2	548.2	524.1
85°	158.2	163.3	226.6	269.6	238.0	230.4	389.9	431.7	396.2	344.3	310.2
87.5°	57.0	65.8	119.0	117.7	83.6	44.3	86.1	41.8	22.8	13.9	17.7
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)