

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: P456275

Luminaire Tested: **GALN-SA7C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45637 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

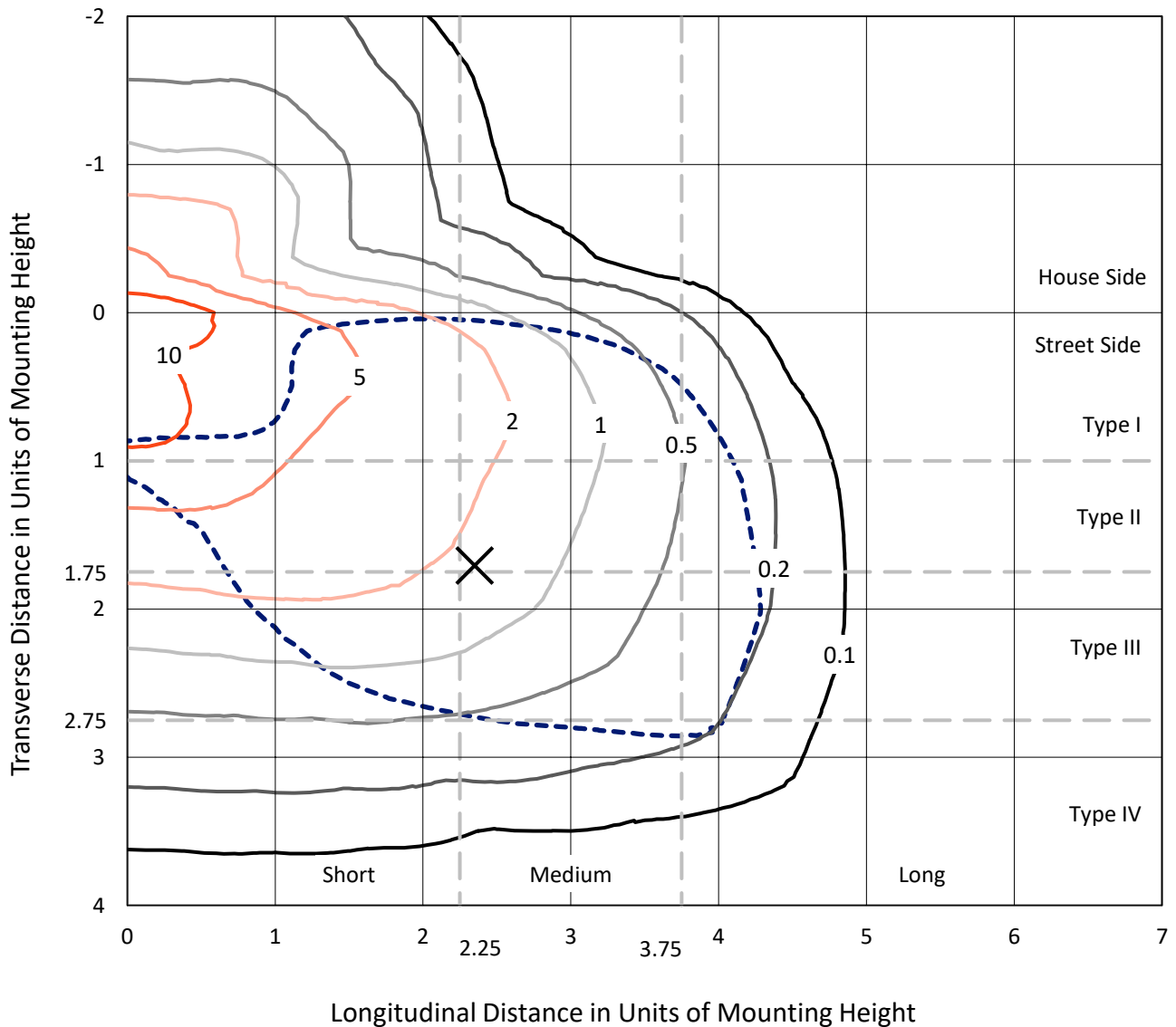
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

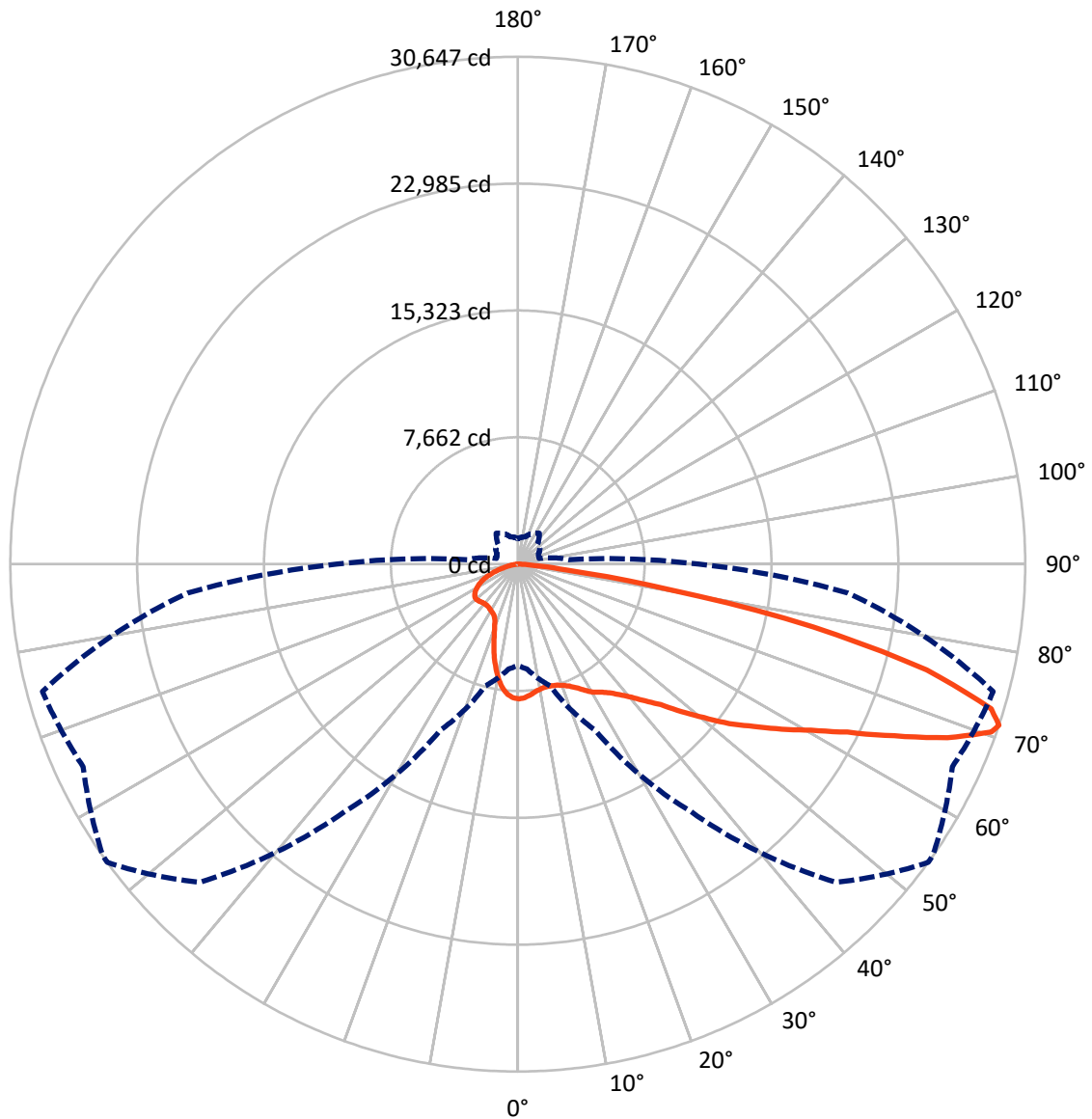
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8239.5	0.0	8239.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37397.5	0.0	37397.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	45637.0	0.0	45637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.6	1.6
10°-20°	1916.0	4.2
20°-30°	3190.1	7.0
30°-40°	4717.2	10.3
40°-50°	6644.3	14.6
50°-60°	8897.0	19.5
60°-70°	11214.0	24.6
70°-80°	7659.1	16.8
80°-90°	673.6	1.5
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°	45637.0	100.0
0°-180°	45637.0	100.0

Coefficient of Utilization

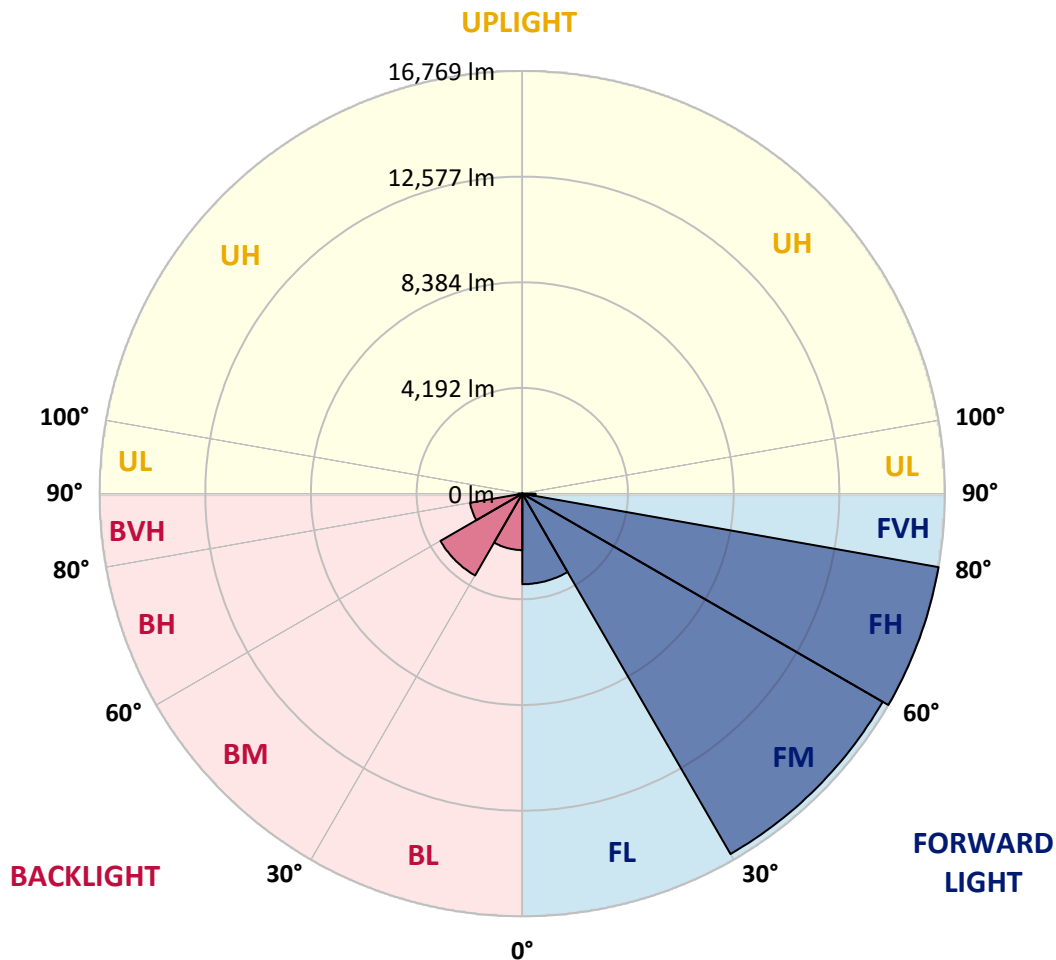


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3592.4	7.9			
FM	(30°-60°)	16509.8	36.2			
FH	(60°-80°)	16768.8	36.7			G5
FVH	(80°-90°)	526.5	1.2			G4/750
BL	(0°-30°)	2239.3	4.9	B3/2500		
BM	(30°-60°)	3748.7	8.2	B3/5000		
BH	(60°-80°)	2104.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	147.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3
2.5°	7866.2	7903.2	7913.1	7937.7	7989.5	8031.4	8073.3	8068.4	8127.5	8152.2	8174.4
5°	7516.2	7526.0	7563.0	7612.3	7703.5	7819.4	7932.8	7935.2	8080.7	8196.5	8253.2
7.5°	7259.8	7291.8	7316.5	7368.3	7464.4	7590.1	7770.1	7784.9	8043.7	8273.0	8393.8
10°	7092.2	7129.1	7156.3	7220.4	7316.5	7457.0	7651.8	7678.9	8016.6	8393.8	8605.8
12.5°	6939.3	6976.3	7001.0	7084.8	7210.5	7383.1	7602.5	7634.5	8026.5	8534.3	8837.5
15°	7033.0	7062.6	7052.7	7077.4	7161.2	7358.4	7622.2	7654.2	8063.4	8669.9	9066.7
17.5°	7449.6	7474.3	7392.9	7299.2	7259.8	7405.2	7683.8	7718.3	8137.4	8810.4	9300.9
20°	8063.4	8130.0	7952.5	7743.0	7553.2	7572.9	7812.0	7849.0	8240.9	8950.9	9540.0
22.5°	8862.1	8911.4	8694.5	8349.4	7999.3	7819.4	8004.3	8026.5	8396.2	9133.3	9801.3
25°	9801.3	9830.9	9530.2	9086.5	8581.1	8240.9	8268.0	8307.5	8652.6	9340.4	10033.1
27.5°	10713.4	10807.1	10459.5	9917.2	9251.6	8684.6	8630.4	8655.1	8931.2	9456.2	10193.3
30°	11795.6	11788.2	11420.9	10792.3	9939.4	9167.8	8973.1	8968.1	9081.5	9512.9	10309.2
32.5°	12658.4	12759.5	12399.6	11714.3	10725.8	9668.2	9209.7	9199.9	9197.4	9611.5	10481.7
35°	13639.6	13654.3	13324.0	12633.8	11576.2	10296.8	9540.0	9490.7	9434.0	9823.5	10715.9
37.5°	14517.1	14586.2	14282.9	13508.9	12411.9	10950.1	9993.6	9961.6	9789.0	10190.8	11090.6
40°	15202.4	15254.2	15071.8	14334.7	13235.3	11655.1	10570.5	10511.3	10301.8	10792.3	11591.0
42.5°	15426.8	15532.8	15604.3	15241.9	14181.9	12490.8	11280.4	11206.5	11046.2	11704.4	12167.9
45°	15444.0	15611.7	15988.8	16006.1	15133.4	13491.6	12108.7	12056.9	12044.6	12872.9	12978.9
47.5°	15313.4	15483.5	16117.0	16459.7	15981.4	14502.3	13304.3	13222.9	13230.3	14317.5	13888.5
50°	14997.8	15200.0	15969.1	16750.5	16644.5	15552.5	14566.4	14539.3	14692.2	15966.6	14832.7
52.5°	14403.7	14647.8	15816.3	16933.0	17137.6	16457.2	16001.1	15924.7	16311.7	17756.3	15865.6
55°	12759.5	13126.8	15256.7	17034.0	17605.9	17322.5	17292.9	17430.9	17943.7	19708.7	17002.0
57.5°	11901.6	12177.7	14041.4	17051.3	18197.6	18328.2	18801.5	18836.0	19733.3	21781.9	18286.3
60°	11433.3	11677.3	13375.8	16937.9	19023.4	19573.1	20344.7	20468.0	21481.1	24027.6	19617.5
62.5°	11024.1	11233.6	12976.4	16545.9	19955.2	21419.5	22343.9	22403.1	23465.5	26507.5	20931.4
65°	10060.2	10299.3	12172.8	16154.0	20758.8	23726.9	24996.4	24927.4	25578.2	28647.2	21754.8
67.5°	8761.1	9064.3	10671.5	14800.6	21155.7	26248.7	27984.1	27897.8	27663.7	30049.9	21991.4
70°	7102.0	7264.7	8751.2	12461.2	19570.6	27572.5	30343.3	30252.0	28955.4	30234.8	20872.2
71°	6111.1	6365.0	7619.7	11068.4	18251.8	27168.2	30646.5	30621.8	28957.9	29724.5	20029.2
72.5°	4770.0	4925.3	6034.6	8576.2	15513.0	24870.7	29897.1	29990.7	28329.2	28307.1	18291.2
75°	3017.3	3086.3	3786.4	5048.6	8512.1	17613.3	25521.5	25775.4	25154.2	23169.7	13602.6
77.5°	1752.7	1841.5	2267.9	2975.4	3678.0	9559.8	18261.7	18537.8	17477.8	12757.0	5568.7
80°	1020.6	1119.2	1493.9	1728.1	1688.6	3547.3	9298.5	9769.3	7567.9	3221.9	1562.9
82.5°	567.0	633.5	1050.1	1052.6	899.8	1158.6	2926.1	3061.7	2159.5	1299.1	638.5
85°	411.7	465.9	677.9	613.8	431.4	498.0	1018.1	1067.4	872.7	547.3	207.1
87.5°	145.4	207.1	372.2	295.8	118.3	103.5	293.4	239.1	221.9	152.8	46.8
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°	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3	8142.3
2.5°	8186.7	8191.6	8167.0	8122.6	8078.2	8021.5	7957.4	7908.1	7885.9	7883.5	7881.0
5°	8275.4	8287.8	8194.1	8056.0	7903.2	7715.8	7555.6	7373.2	7326.4	7252.4	7274.6
7.5°	8418.4	8411.0	8226.1	7932.8	7575.3	7178.5	6843.2	6648.4	6446.3	6389.6	6392.1
10°	8623.0	8576.2	8226.1	7681.3	7084.8	6495.6	6027.2	5731.4	5571.2	5438.1	5388.8
12.5°	8839.9	8721.6	8147.2	7328.8	6453.7	5731.4	5228.5	4829.2	4725.6	4617.2	4619.6
15°	9047.0	8849.8	7991.9	6833.3	5773.3	4915.5	4427.4	4188.3	4156.2	4168.5	4166.1
17.5°	9234.4	8941.0	7755.3	6281.1	4979.6	4215.4	3956.5	3973.8	4060.1	4121.7	4129.1
20°	9424.2	8995.3	7402.8	5541.6	4230.2	3791.4	3801.2	3936.8	4067.5	4151.3	4163.6
22.5°	9604.1	9019.9	6988.6	4826.7	3687.8	3611.4	3756.9	3902.3	4030.5	4111.8	4124.2
25°	9722.5	8963.2	6401.9	4079.8	3421.6	3547.3	3700.2	3823.4	3931.9	4015.7	4035.4
27.5°	9754.5	8780.8	5674.7	3475.8	3298.3	3485.7	3626.2	3717.4	3801.2	3880.1	3894.9
30°	9737.3	8512.1	4876.0	3120.9	3226.9	3414.2	3522.7	3589.2	3690.3	3751.9	3764.2
32.5°	9710.1	8199.0	4042.8	2931.0	3167.7	3347.6	3411.7	3470.9	3468.4	3443.8	3461.0
35°	9720.0	7824.3	3367.4	2817.6	3115.9	3298.3	3352.6	3278.6	3066.6	3056.8	3046.9
37.5°	9771.8	7454.5	2876.8	2738.8	3088.8	3290.9	3320.5	2980.3	2793.0	2706.7	2684.5
40°	9904.9	7023.1	2553.9	2679.6	3086.3	3347.6	3175.1	2830.0	2470.1	2302.4	2290.1
42.5°	10082.4	6599.1	2356.7	2642.6	3115.9	3433.9	3115.9	2618.0	2226.0	2127.4	2112.6
45°	10346.1	6113.5	2248.2	2625.4	3160.3	3466.0	3096.2	2462.7	2127.4	2048.5	2048.5
47.5°	10644.4	5650.1	2189.0	2613.0	3217.0	3443.8	2921.2	2413.4	2080.6	2090.4	2137.3
50°	10940.2	5248.3	2144.7	2585.9	3266.3	3431.5	2849.7	2410.9	2092.9	2218.6	2302.4
52.5°	11282.9	4964.8	2090.4	2541.5	3266.3	3352.6	2827.5	2460.2	2127.4	2164.4	2201.4
55°	11697.0	4876.0	2021.4	2445.4	3207.1	3155.4	2815.2	2531.7	2152.1	2065.8	2080.6
57.5°	12244.3	5019.0	1954.8	2324.6	3071.5	2950.8	2810.2	2551.4	2095.4	2023.9	2009.1
60°	12880.3	5302.5	1935.1	2201.4	2886.7	2775.7	2780.7	2494.7	2016.5	1942.5	1954.8
62.5°	13326.5	5472.6	1922.8	2107.7	2684.5	2583.5	2709.2	2425.7	1982.0	1917.9	1930.2
65°	13326.5	5265.5	1809.4	1964.7	2423.2	2351.7	2622.9	2339.4	1937.6	1863.6	1851.3
67.5°	12821.1	4661.6	1636.8	1750.2	2134.8	2088.0	2502.1	2235.9	1871.0	1814.3	1784.8
70°	11504.8	3535.0	1419.9	1498.8	1770.0	1811.9	2346.8	2095.4	1760.1	1691.1	1646.7
71°	10925.4	3078.9	1328.7	1370.6	1629.4	1691.1	2272.8	2036.2	1710.8	1612.2	1533.3
72.5°	9808.7	2593.3	1190.7	1207.9	1392.8	1503.7	2117.5	1922.8	1617.1	1476.6	1387.9
75°	7452.1	1893.2	958.9	949.1	1030.4	1193.1	1792.1	1713.3	1417.4	1227.6	1175.9
77.5°	3219.5	1030.4	717.4	724.7	700.1	904.7	1410.1	1471.7	1215.3	998.4	951.5
80°	976.2	594.1	490.6	500.4	468.4	606.4	993.4	1153.7	976.2	776.5	712.4
82.5°	500.4	355.0	335.3	330.3	298.3	342.7	601.5	788.8	697.6	485.6	428.9
85°	216.9	189.8	165.2	160.2	140.5	123.3	214.5	394.4	369.8	271.2	258.8
87.5°	54.2	49.3	32.0	29.6	17.3	2.5	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)