

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: P530922

Luminaire Tested: **GALN-SA6A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18373 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182
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

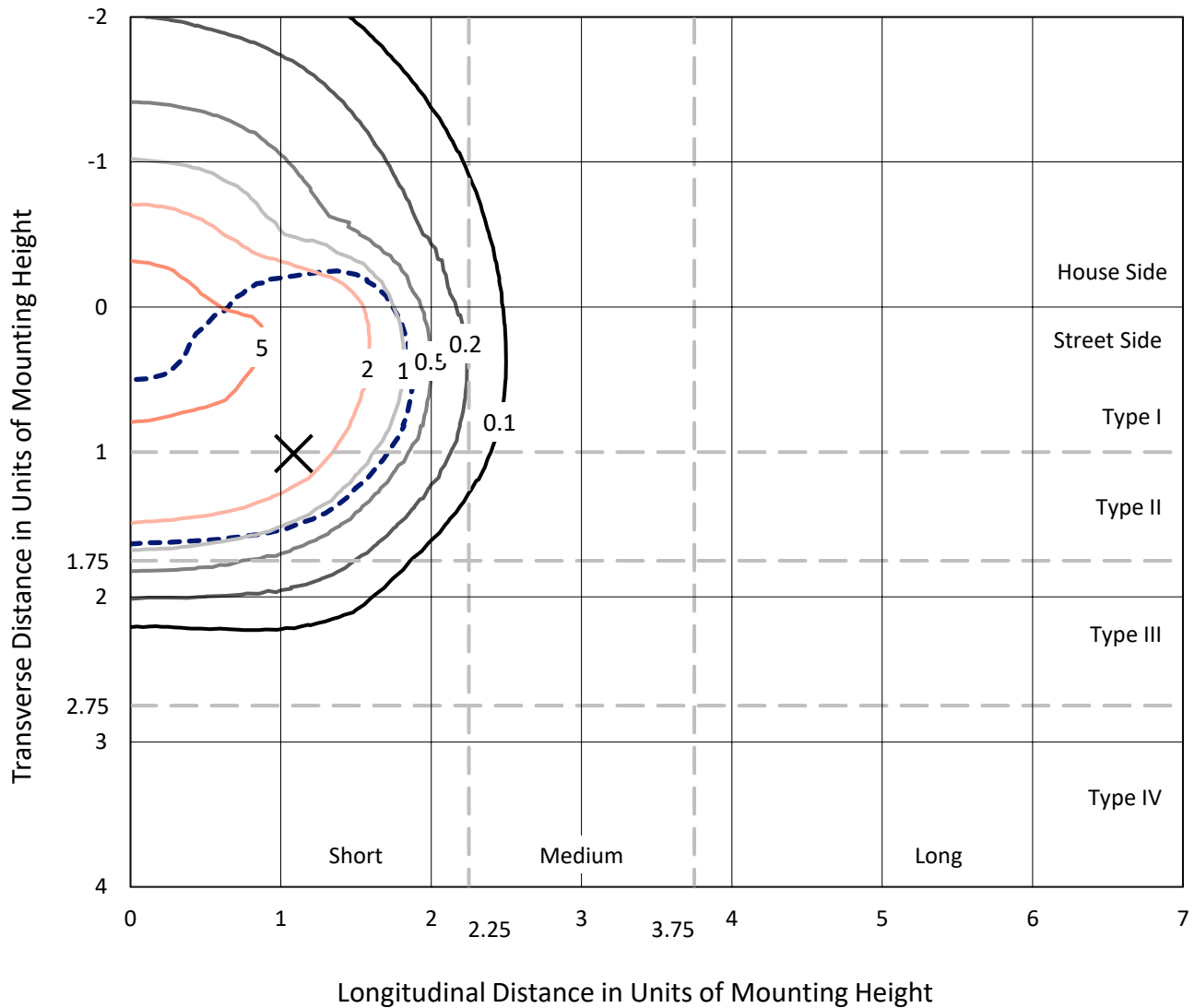


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

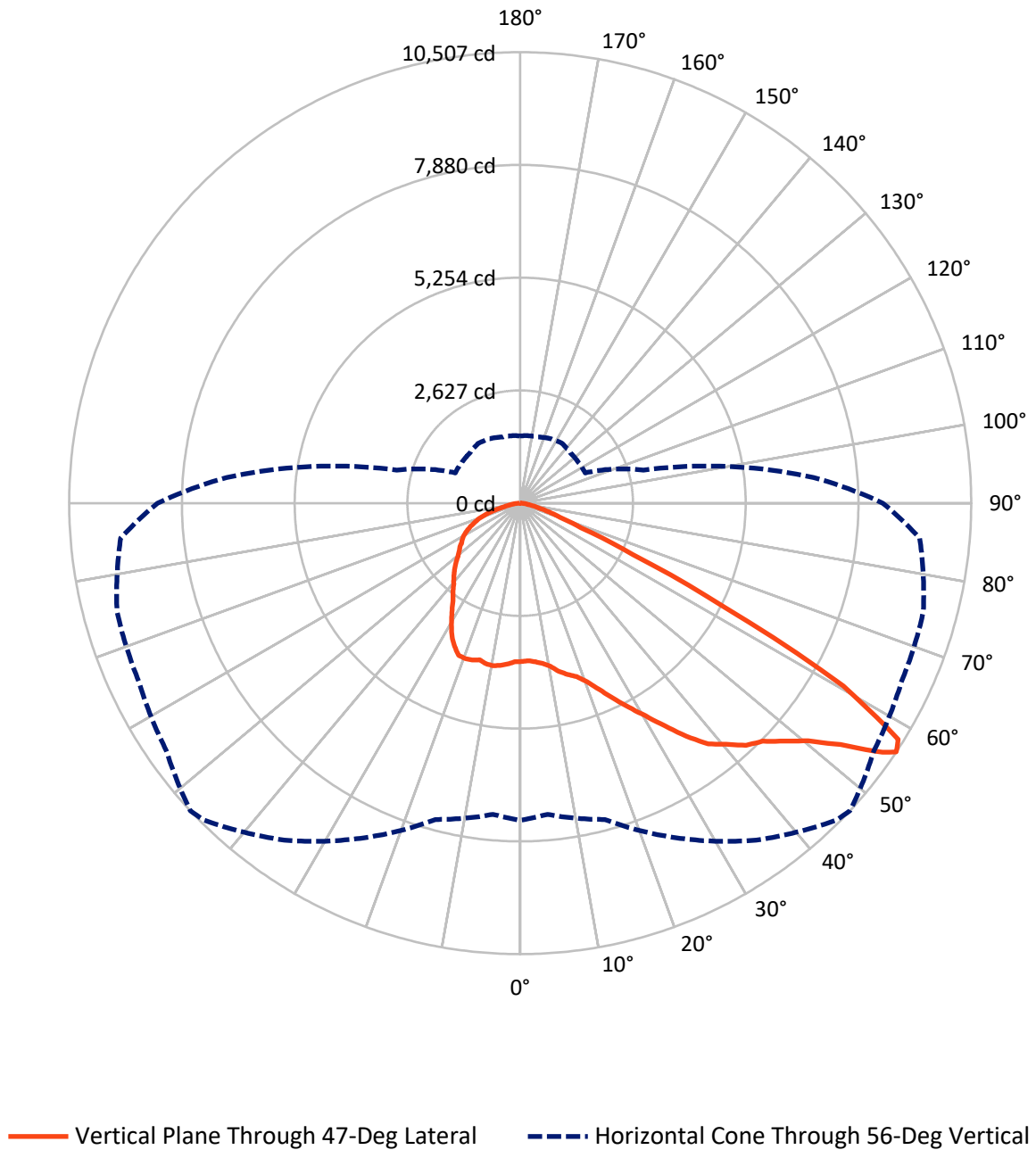


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5822.2	0.0	5822.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12550.8	0.0	12550.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	18373.0	0.0	18373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	2.0
10°-20°	1134.3	6.2
20°-30°	2005.3	10.9
30°-40°	3011.8	16.4
40°-50°	4133.4	22.5
50°-60°	4924.4	26.8
60°-70°	2107.4	11.5
70°-80°	596.4	3.2
80°-90°	100.4	0.5
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°	18373.0	100.0
0°-180°	18373.0	100.0

Coefficient of Utilization



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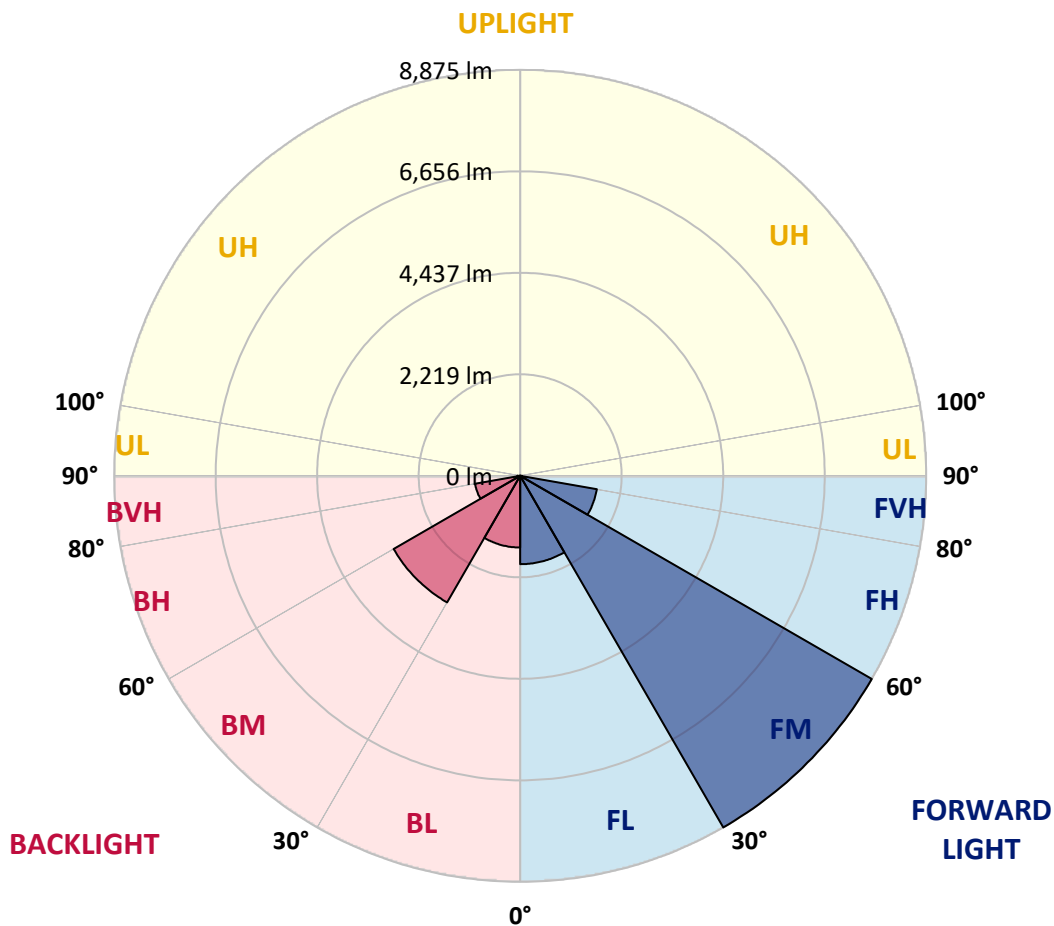
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.6	10.5			
FM	(30°-60°)	8874.6	48.3			
FH	(60°-80°)	1702.0	9.3			G1/1800
FVH	(80°-90°)	42.6	0.2			G1/100
BL	(0°-30°)	1567.6	8.5	B3/2500		
BM	(30°-60°)	3195.1	17.4	B3/5000		
BH	(60°-80°)	1001.7	5.5	B3/2500		G3/2500
BVH	(80°-90°)	57.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3676.5	3669.5	3664.8	3702.3	3688.2	3690.6	3676.5	3690.6	3700.0	3678.9	3709.3
5°	3669.5	3690.6	3671.8	3683.5	3714.0	3704.6	3714.0	3742.1	3735.1	3728.1	3718.7
7.5°	3735.1	3737.4	3751.5	3756.2	3765.6	3756.2	3770.2	3796.0	3789.0	3749.2	3753.8
10°	3828.8	3833.5	3835.9	3861.6	3878.0	3880.4	3864.0	3840.5	3838.2	3892.1	3854.6
12.5°	3936.6	3924.9	3953.0	3962.4	3981.1	4002.2	4023.3	3974.1	4004.6	4006.9	3962.4
15°	4093.6	4105.3	4072.5	4072.5	4079.6	4081.9	4140.5	4117.0	4112.4	4086.6	4105.3
17.5°	4327.9	4248.3	4245.9	4213.1	4208.4	4227.2	4248.3	4267.0	4330.3	4278.7	4178.0
20°	4499.0	4517.7	4449.8	4409.9	4417.0	4459.2	4438.1	4522.4	4566.9	4482.6	4384.2
22.5°	4801.3	4738.0	4754.4	4665.4	4672.4	4716.9	4714.6	4801.3	4827.0	4693.5	4550.5
25°	5005.1	4988.7	5002.8	4932.5	4941.9	4977.0	5033.2	5176.2	5134.0	4986.4	4656.0
27.5°	5302.7	5269.9	5258.2	5232.4	5223.0	5316.8	5382.4	5534.7	5504.2	5288.7	4843.4
30°	5607.3	5586.2	5598.0	5492.5	5530.0	5729.2	5747.9	5956.5	5942.4	5562.8	5052.0
32.5°	5818.2	5829.9	5851.0	5792.4	5958.8	6118.2	6181.4	6418.1	6429.8	6033.8	5455.0
35°	6158.0	6118.2	6129.9	6197.8	6275.2	6565.7	6668.8	6825.8	6924.2	6528.2	5841.7
37.5°	6371.2	6413.4	6364.2	6472.0	6673.5	7022.6	7116.4	7278.1	7381.2	7015.6	6368.9
40°	6704.0	6636.0	6671.2	6748.5	6954.7	7409.3	7383.5	7549.9	7582.7	7430.4	6861.0
42.5°	7062.5	7029.7	6980.5	7156.2	7329.6	7660.0	7711.5	7634.2	7800.6	7835.7	7563.9
45°	7491.3	7531.1	7538.2	7542.8	7695.1	7983.4	7913.1	7845.1	8037.3	8292.7	7999.8
47.5°	7889.6	7763.1	7854.5	7981.0	8196.6	8198.9	8281.0	8119.3	8323.1	8550.4	8393.4
50°	8023.2	7962.3	8084.1	8323.1	8655.9	8691.0	8700.4	8470.8	8576.2	8756.6	8529.3
52.5°	7971.6	7950.6	8262.2	8632.4	9119.8	9297.9	9344.8	9061.2	9119.8	9037.8	8829.3
55°	7725.6	7788.9	8102.9	8857.4	9604.9	10155.5	10244.6	9886.1	9513.5	9576.8	9347.1
56°	7388.2	7278.1	7629.5	8602.0	9583.8	10434.4	10507.0	10059.5	9806.4	9724.4	9342.4
57.5°	6268.1	6125.2	6586.8	7739.7	9051.9	10328.9	10382.8	10132.1	9757.2	9590.8	8660.6
60°	3669.5	3739.8	4325.6	5337.9	6982.8	8468.4	8648.8	8831.6	8580.9	7835.7	6446.2
62.5°	1771.5	1727.0	2146.4	3060.3	4255.3	5405.8	5351.9	5865.1	6146.3	5567.5	4070.2
65°	927.9	923.2	1171.6	1670.7	2338.5	2840.0	2889.2	3165.7	3552.3	2868.1	2066.7
67.5°	681.9	700.6	824.8	1174.0	1504.3	1534.8	1527.8	1666.0	1703.5	1441.1	1270.0
70°	534.3	543.6	635.0	892.8	1120.1	1002.9	981.8	998.2	1108.3	1155.2	1099.0
72.5°	386.6	396.0	473.3	602.2	700.6	684.2	698.3	789.7	925.6	974.8	916.2
75°	257.8	264.8	307.0	367.9	414.8	447.6	473.3	578.8	705.3	733.4	705.3
77.5°	178.1	185.1	213.2	260.1	264.8	285.9	295.2	344.5	421.8	456.9	438.2
80°	100.8	100.8	114.8	133.6	164.0	192.1	196.8	236.7	271.8	295.2	299.9
82.5°	46.9	49.2	60.9	82.0	107.8	133.6	138.3	164.0	189.8	213.2	220.3
85°	23.4	25.8	35.1	49.2	65.6	79.7	77.3	79.7	84.4	79.7	82.0
87.5°	7.0	7.0	9.4	11.7	9.4	11.7	11.7	14.1	16.4	18.7	21.1
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°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3711.7	3718.7	3671.8	3716.4	3700.0	3697.6	3730.4	3725.7	3737.4	3732.8	3704.6
5°	3714.0	3697.6	3746.8	3702.3	3723.4	3767.9	3737.4	3807.7	3772.6	3796.0	3744.5
7.5°	3786.6	3791.3	3782.0	3800.7	3791.3	3812.4	3796.0	3812.4	3784.3	3786.6	3833.5
10°	3849.9	3835.9	3852.3	3828.8	3845.2	3838.2	3800.7	3789.0	3798.4	3786.6	3817.1
12.5°	3967.1	3941.3	3929.6	3901.5	3882.7	3812.4	3753.8	3721.0	3765.6	3772.6	3758.5
15°	4086.6	4088.9	4035.0	3971.8	3854.6	3749.2	3763.2	3774.9	3774.9	3793.7	3758.5
17.5°	4161.6	4161.6	4112.4	3985.8	3866.3	3805.4	3791.3	3753.8	3721.0	3716.4	3714.0
20°	4292.8	4253.0	4140.5	3983.5	3861.6	3833.5	3728.1	3639.0	3571.1	3547.6	3545.3
22.5°	4442.8	4342.0	4185.0	3988.2	3854.6	3814.8	3617.9	3484.4	3362.5	3311.0	3318.0
25°	4581.0	4419.3	4210.8	3967.1	3828.8	3636.7	3416.4	3231.3	3104.8	3062.6	3041.5
27.5°	4677.1	4501.3	4210.8	3985.8	3732.8	3437.5	3212.6	2975.9	2865.8	2837.6	2842.3
30°	4806.0	4604.4	4283.4	3946.0	3540.6	3179.8	2910.3	2755.6	2690.0	2666.6	2683.0
32.5°	5108.2	4873.9	4384.2	3849.9	3313.3	2922.0	2704.1	2617.4	2521.3	2474.4	2458.0
35°	5436.3	5129.3	4482.6	3688.2	3057.9	2687.7	2551.8	2472.1	2357.3	2305.7	2315.1
37.5°	5900.2	5457.4	4489.6	3421.1	2781.4	2556.5	2432.3	2308.1	2214.3	2134.7	2111.2
40°	6525.9	5904.9	4473.2	3139.9	2558.8	2401.8	2310.4	2155.8	2050.3	1994.1	2005.8
42.5°	7076.5	6429.8	4405.3	2821.2	2357.3	2296.4	2193.3	2040.9	1937.8	1879.3	1874.6
45°	7540.5	6816.4	4276.4	2549.4	2188.6	2179.2	2059.7	1942.5	1860.5	1806.6	1830.1
47.5°	7969.3	7128.1	4081.9	2277.6	2033.9	2052.7	1937.8	1865.2	1813.7	1764.4	1762.1
50°	8124.0	7123.4	3910.8	2052.7	1909.7	1900.4	1895.7	1818.3	1764.4	1722.3	1741.0
52.5°	8381.7	7203.1	3725.7	1898.0	1797.3	1799.6	1816.0	1759.8	1698.8	1673.1	1696.5
55°	8751.9	7214.8	3318.0	1717.6	1703.5	1719.9	1719.9	1682.4	1630.9	1609.8	1598.1
56°	8449.7	6865.6	2975.9	1670.7	1656.7	1656.7	1701.2	1659.0	1595.7	1579.3	1565.3
57.5°	7793.6	6015.1	2490.8	1614.5	1593.4	1626.2	1649.6	1605.1	1546.5	1523.1	1537.2
60°	5375.4	4070.2	1872.2	1492.6	1492.6	1546.5	1565.3	1499.7	1473.9	1471.5	1452.8
62.5°	3137.6	2371.3	1464.5	1382.5	1387.2	1431.7	1445.8	1408.3	1375.5	1415.3	1434.1
65°	1663.7	1415.3	1256.0	1265.3	1267.7	1302.8	1363.8	1361.4	1359.1	1370.8	1373.1
67.5°	1204.4	1176.3	1141.1	1131.8	1136.5	1162.2	1223.2	1270.0	1267.7	1239.6	1218.5
70°	1073.2	1033.4	1012.3	1014.6	995.9	1026.3	1075.5	1106.0	1052.1	1019.3	1005.2
72.5°	892.8	881.1	867.0	869.3	831.8	824.8	768.6	768.6	754.5	745.1	761.5
75°	681.9	677.2	684.2	672.5	632.7	590.5	557.7	527.2	480.4	461.6	452.2
77.5°	431.2	445.2	461.6	435.8	419.4	389.0	356.2	325.7	288.2	267.1	267.1
80°	292.9	304.6	316.3	311.6	292.9	264.8	239.0	206.2	180.4	164.0	161.7
82.5°	222.6	232.0	248.4	229.6	210.9	187.5	166.4	142.9	119.5	100.8	100.8
85°	79.7	91.4	100.8	110.1	117.2	119.5	103.1	84.4	68.0	53.9	51.6
87.5°	21.1	23.4	25.8	23.4	23.4	23.4	25.8	23.4	21.1	16.4	16.4
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)