

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: P454537

Luminaire Tested: **GALN-SA5C-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25825 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

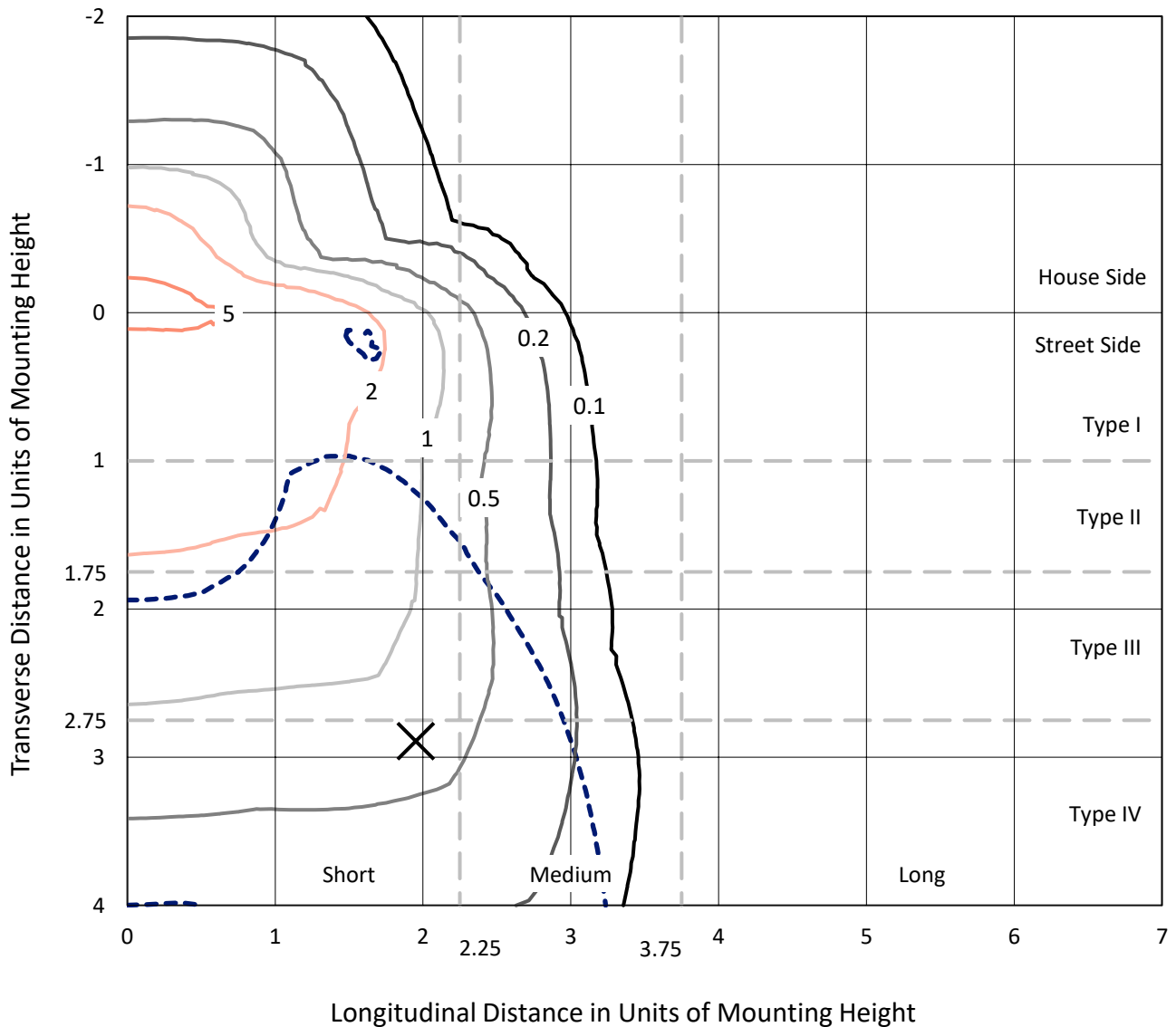
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

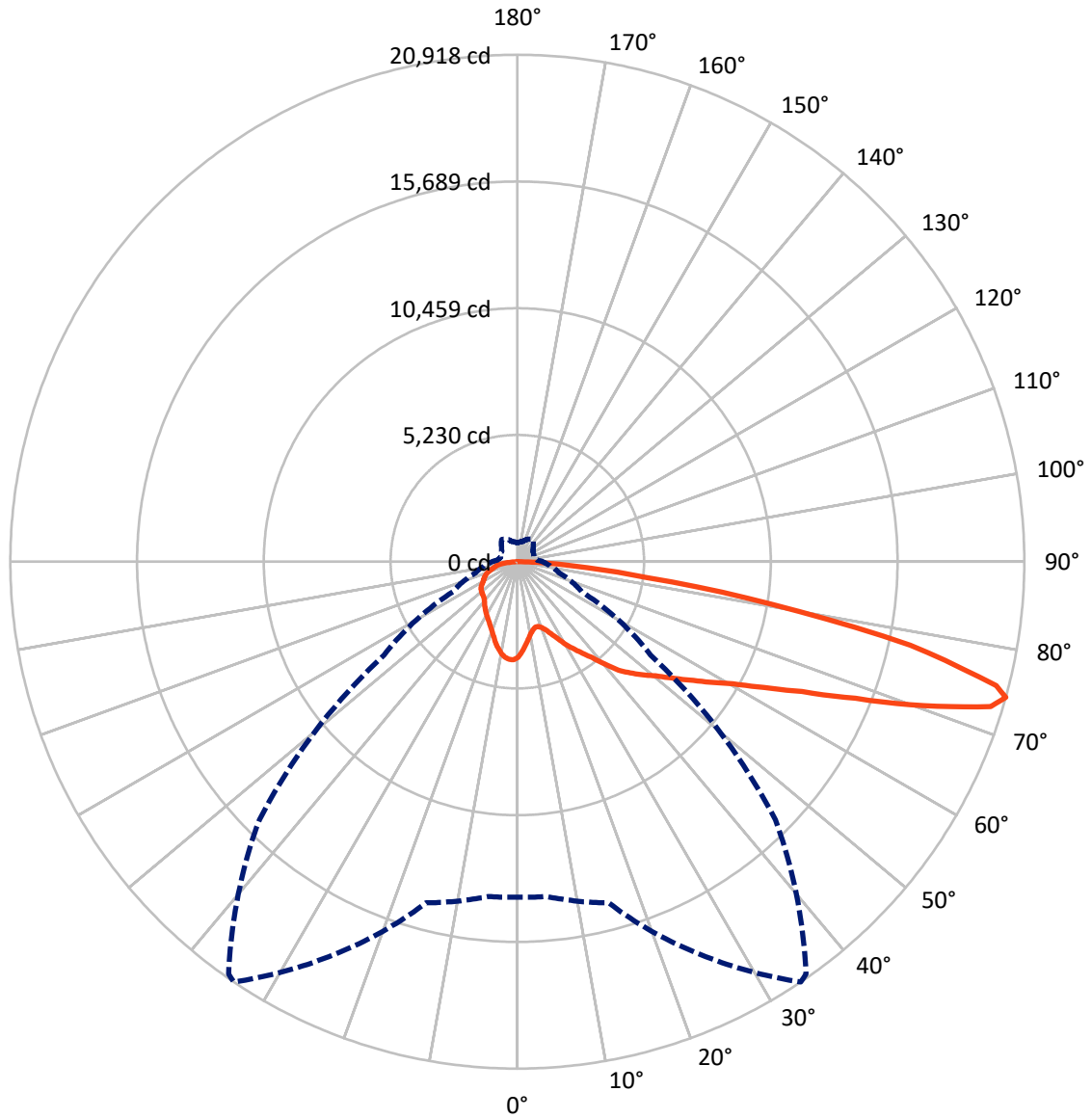
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5495.7	0.0	5495.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	20329.3	0.0	20329.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	25825.0	0.0	25825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	1.4
10°-20°	981.6	3.8
20°-30°	1618.5	6.3
30°-40°	2424.3	9.4
40°-50°	3524.3	13.6
50°-60°	4922.5	19.1
60°-70°	6162.8	23.9
70°-80°	5096.1	19.7
80°-90°	736.3	2.9
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°	25825.0	100.0
0°-180°	25825.0	100.0

Coefficient of Utilization



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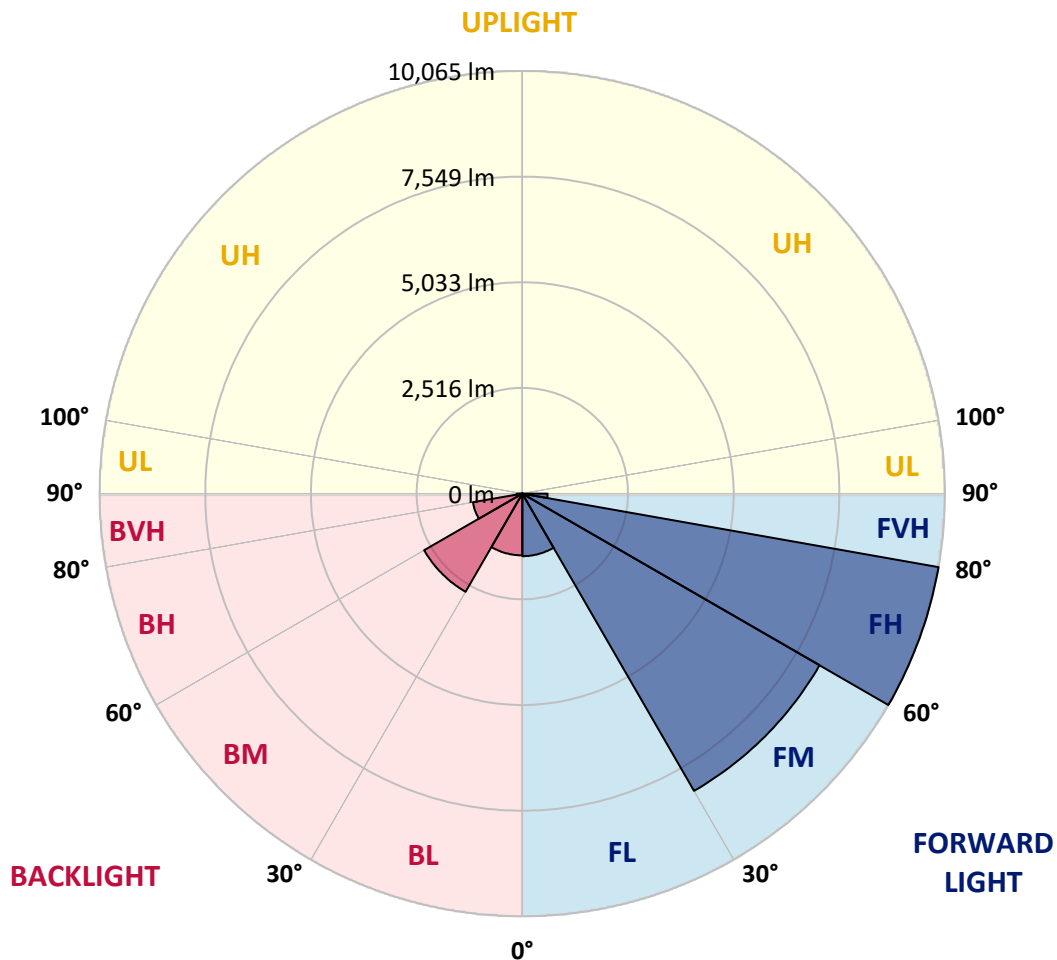
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.7	5.8			
FM (30°-60°)	8172.1	31.6			
FH (60°-80°)	10065.2	39.0			G4/12000
FVH (80°-90°)	603.2	2.3			G4/750
BL (0°-30°)	1470.0	5.7	B3/2500		
BM (30°-60°)	2699.0	10.5	B3/5000		
BH (60°-80°)	1193.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	133.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	3644.0	3662.6	3672.6	3708.3	3716.9	3728.4	3758.4	3798.5	3850.0	3895.8	3935.8
5°	3340.6	3369.3	3386.4	3417.9	3479.4	3485.1	3565.3	3656.8	3761.3	3858.6	3938.7
7.5°	3053.1	3084.6	3098.9	3156.1	3237.6	3250.5	3367.8	3512.3	3686.9	3834.2	3957.3
10°	2837.0	2852.8	2884.3	2927.2	3024.5	3033.1	3186.1	3379.3	3605.3	3822.8	3988.7
12.5°	2719.7	2728.3	2735.5	2781.3	2877.1	2890.0	3050.2	3269.1	3540.9	3831.4	4040.3
15°	2736.9	2739.8	2708.3	2716.9	2794.1	2812.7	2971.5	3196.1	3500.9	3852.8	4117.5
17.5°	2881.4	2871.4	2794.1	2754.1	2808.4	2817.0	2955.8	3167.5	3482.3	3892.9	4197.6
20°	3108.9	3094.6	2961.5	2872.8	2904.3	2911.4	3007.3	3189.0	3500.9	3958.7	4322.1
22.5°	3392.2	3386.4	3184.7	3077.4	3076.0	3076.0	3126.0	3266.3	3556.7	4048.8	4452.3
25°	3788.5	3758.4	3495.2	3356.4	3317.8	3314.9	3309.2	3393.6	3628.2	4144.7	4606.8
27.5°	4194.8	4143.3	3908.6	3695.5	3612.5	3602.5	3565.3	3573.9	3719.8	4253.4	4782.8
30°	4559.6	4526.7	4306.4	4070.3	3971.6	3948.7	3845.7	3798.5	3872.9	4449.4	5063.2
32.5°	4838.6	4818.5	4646.9	4432.3	4286.3	4282.0	4131.8	4093.2	4111.8	4686.9	5383.7
35°	5064.6	5071.8	4984.5	4798.5	4631.1	4606.8	4506.7	4458.0	4403.6	5030.3	5787.1
37.5°	5373.7	5389.4	5383.7	5223.4	5018.8	5024.6	5001.7	4921.6	4777.1	5413.7	6234.9
40°	5714.2	5725.6	5724.2	5662.6	5555.3	5561.1	5552.5	5460.9	5244.9	5901.6	6732.8
42.5°	6184.8	6130.5	5988.8	6050.4	6113.3	6140.5	6199.2	6111.9	5815.7	6422.3	7200.6
45°	6711.3	6608.3	6287.9	6316.5	6549.7	6601.2	6924.5	6804.3	6435.2	7020.4	7751.4
47.5°	7043.3	6941.7	6671.3	6665.6	6974.6	7024.7	7596.9	7552.6	6998.9	7665.6	8423.9
50°	7339.4	7325.1	7020.4	7093.3	7395.2	7469.6	8329.4	8288.0	7561.2	8426.7	9156.4
52.5°	7778.6	7662.7	7419.5	7569.8	7968.9	8066.2	9056.2	8934.6	8077.6	9099.2	9867.4
55°	7976.1	7948.9	7934.6	8064.8	8612.7	8682.8	9763.0	9484.0	8518.3	9668.6	10408.2
57.5°	8504.0	8453.9	8595.6	8684.3	9371.0	9478.3	10501.2	10057.7	8904.6	10120.7	10671.5
60°	9187.9	9160.7	9290.9	9451.1	10217.9	10381.0	11342.5	10547.0	9215.0	10348.1	10527.0
62.5°	10209.4	10206.5	10182.2	10525.5	11418.3	11568.5	12308.2	11023.4	9263.7	10177.9	9780.2
65°	11674.4	11622.9	11411.1	11786.0	12911.9	13087.9	13314.0	11289.5	8970.4	9303.7	8235.0
67.5°	13206.6	13203.8	13032.1	13518.5	15056.5	15238.2	14571.5	11230.9	8156.3	7536.8	5848.6
70°	14477.1	14415.6	14634.5	15930.7	17796.3	18006.6	15671.7	10539.9	6496.7	4977.4	3475.1
72.5°	14781.8	14784.7	15239.7	17790.6	20427.3	20460.2	16068.0	8542.6	4347.9	2745.5	1738.3
74°	13843.3	13867.6	14573.0	17883.6	20918.0	20769.2	15055.1	6714.2	2940.1	1792.6	1253.3
75°	12635.8	12482.7	13502.8	17264.1	20408.7	20248.5	13869.1	5388.0	2243.3	1432.1	1097.3
77.5°	6755.7	6911.6	8485.4	12883.3	16580.2	16395.6	9403.9	2583.8	1211.8	997.2	789.7
80°	2405.0	2652.5	3728.4	6741.4	10630.0	10687.2	4488.1	1184.6	852.7	735.4	558.0
82.5°	981.4	1008.6	1600.9	2991.6	5398.0	5449.5	1832.7	703.9	609.5	506.5	333.3
85°	383.4	394.9	708.2	1344.8	2303.4	2453.6	633.8	372.0	374.8	290.4	170.3
87.5°	128.8	145.9	290.4	447.8	782.6	766.8	184.6	110.2	134.5	125.9	52.9
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°	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0	3943.0
2.5°	3955.8	3983.0	4001.6	4021.7	4040.3	4046.0	4041.7	4054.6	4056.0	4057.4	4058.9
5°	3978.7	4015.9	4051.7	4071.7	4080.3	4073.2	4048.8	4036.0	4024.5	4015.9	4018.8
7.5°	4010.2	4063.1	4096.0	4104.6	4081.7	4048.8	3988.7	3941.5	3911.5	3891.5	3890.0
10°	4058.9	4110.4	4137.5	4113.2	4050.3	3970.1	3875.7	3787.0	3719.8	3699.8	3698.3
12.5°	4120.4	4179.0	4177.6	4106.1	3995.9	3852.8	3699.8	3596.7	3505.2	3459.4	3478.0
15°	4200.5	4244.8	4203.4	4074.6	3900.0	3704.0	3515.2	3375.0	3272.0	3223.3	3226.2
17.5°	4293.5	4332.1	4222.0	4018.8	3765.6	3513.8	3294.9	3161.8	3080.3	3044.5	3041.6
20°	4409.4	4420.8	4222.0	3921.5	3592.4	3292.0	3083.1	2990.1	2944.3	2925.7	2931.5
22.5°	4533.8	4510.9	4199.1	3784.2	3365.0	3060.2	2920.0	2878.5	2855.6	2852.8	2855.6
25°	4674.0	4609.7	4151.8	3598.2	3127.5	2859.9	2778.4	2785.5	2789.8	2789.8	2799.8
27.5°	4845.7	4717.0	4073.2	3363.5	2849.9	2673.9	2651.1	2701.1	2724.0	2728.3	2735.5
30°	5071.8	4834.3	3943.0	3070.2	2613.9	2506.6	2546.6	2613.9	2639.6	2655.4	2652.5
32.5°	5340.7	4963.0	3767.0	2777.0	2423.6	2389.2	2437.9	2506.6	2535.2	2543.8	2532.3
35°	5656.9	5109.0	3535.2	2502.3	2257.6	2277.6	2334.9	2356.3	2382.1	2382.1	2387.8
37.5°	5997.4	5226.3	3251.9	2250.5	2128.9	2201.8	2243.3	2223.3	2211.8	2197.5	2204.7
40°	6343.7	5313.6	2884.3	2001.5	2000.1	2123.1	2134.6	2077.4	2031.6	2017.3	2010.1
42.5°	6645.5	5367.9	2552.3	1808.4	1878.5	2045.9	2054.5	1962.9	1889.9	1847.0	1832.7
45°	7001.8	5430.9	2227.6	1648.1	1765.5	1984.4	2005.8	1882.8	1775.5	1685.3	1662.5
47.5°	7489.6	5573.9	1971.5	1523.7	1683.9	1945.7	1975.8	1817.0	1675.3	1558.0	1539.4
50°	8040.4	5770.0	1772.6	1439.3	1621.0	1911.4	1948.6	1749.7	1582.3	1452.1	1437.8
52.5°	8545.5	5875.8	1600.9	1363.4	1559.4	1848.4	1912.8	1701.1	1490.8	1346.3	1333.4
55°	8821.6	5704.1	1432.1	1289.0	1475.0	1766.9	1862.8	1633.8	1402.1	1290.5	1271.9
57.5°	8858.8	5349.3	1279.0	1208.9	1386.3	1666.7	1769.8	1552.3	1344.8	1251.8	1236.1
60°	8571.2	4820.0	1160.3	1143.1	1296.2	1553.7	1665.3	1480.8	1286.2	1208.9	1193.2
62.5°	7855.9	4244.8	1077.3	1083.0	1204.6	1435.0	1588.1	1412.1	1230.4	1161.7	1147.4
65°	6625.5	3503.7	997.2	1021.5	1123.1	1342.0	1518.0	1354.9	1174.6	1125.9	1113.1
67.5°	4602.5	2529.5	931.4	957.1	1045.8	1247.6	1436.4	1293.3	1111.6	1085.9	1065.9
70°	2548.0	1556.6	854.1	884.2	965.7	1141.7	1344.8	1200.3	1020.1	1008.6	980.0
72.5°	1339.1	991.5	766.8	799.8	857.0	1005.8	1204.6	1098.8	929.9	881.3	844.1
74°	1045.8	812.6	708.2	742.5	781.2	925.7	1121.7	1025.8	865.6	808.3	779.7
75°	911.3	723.9	658.1	702.5	736.8	871.3	1057.3	974.3	829.8	775.4	749.7
77.5°	643.8	542.2	537.9	590.9	609.5	764.0	952.8	887.0	739.7	682.4	658.1
80°	452.1	406.3	426.3	459.2	485.0	675.3	884.2	766.8	606.6	539.4	530.8
82.5°	294.7	266.1	304.7	334.8	343.4	497.9	713.9	582.3	442.1	359.1	333.3
85°	135.9	133.1	174.5	170.3	168.8	243.2	423.5	340.5	254.7	190.3	178.8
87.5°	34.3	32.9	42.9	35.8	42.9	37.2	38.6	10.0	1.4	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)