

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: P652357

Luminaire Tested: **GALN-SA4B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652357
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-SA4B-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 16140.5 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

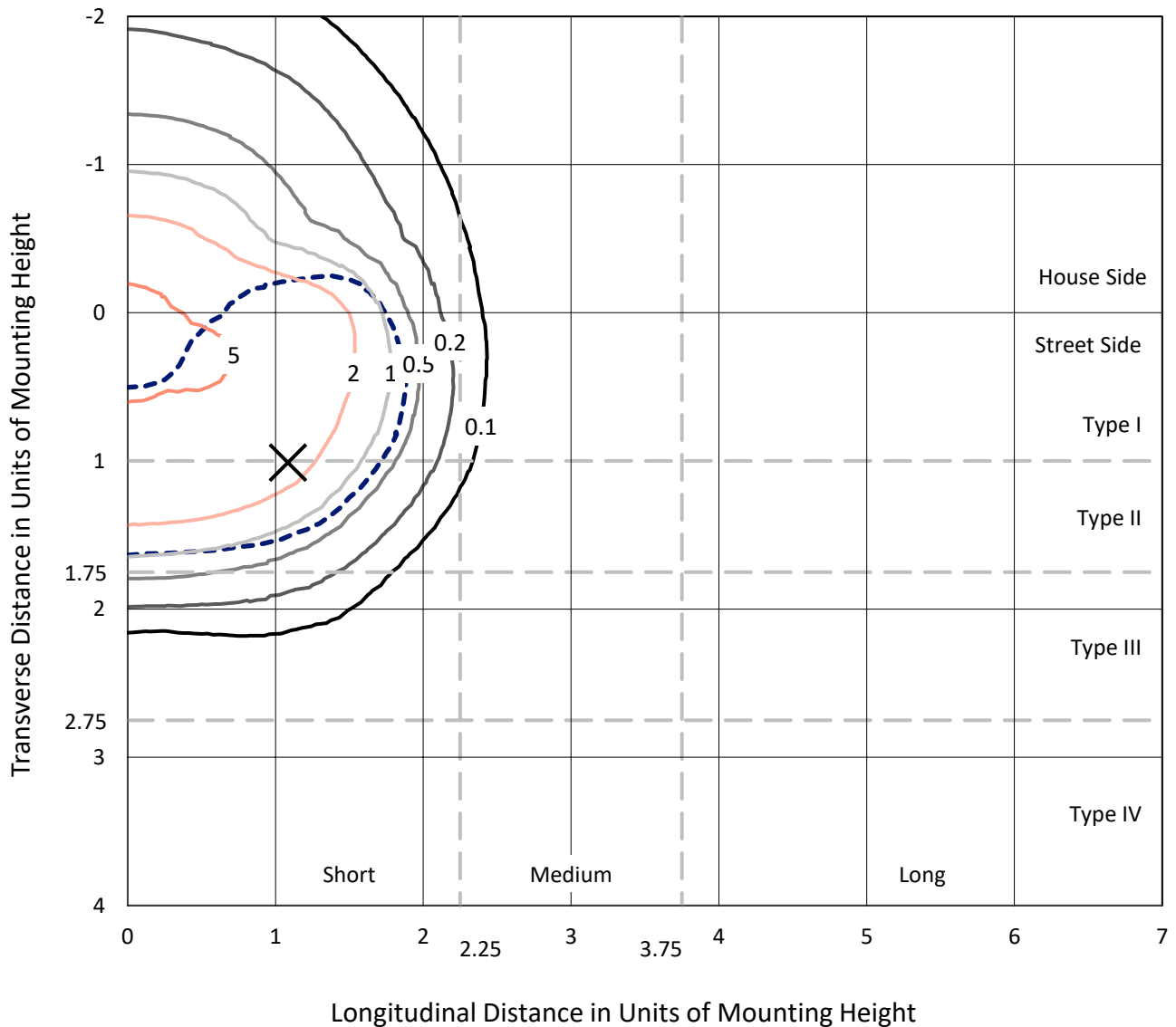
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

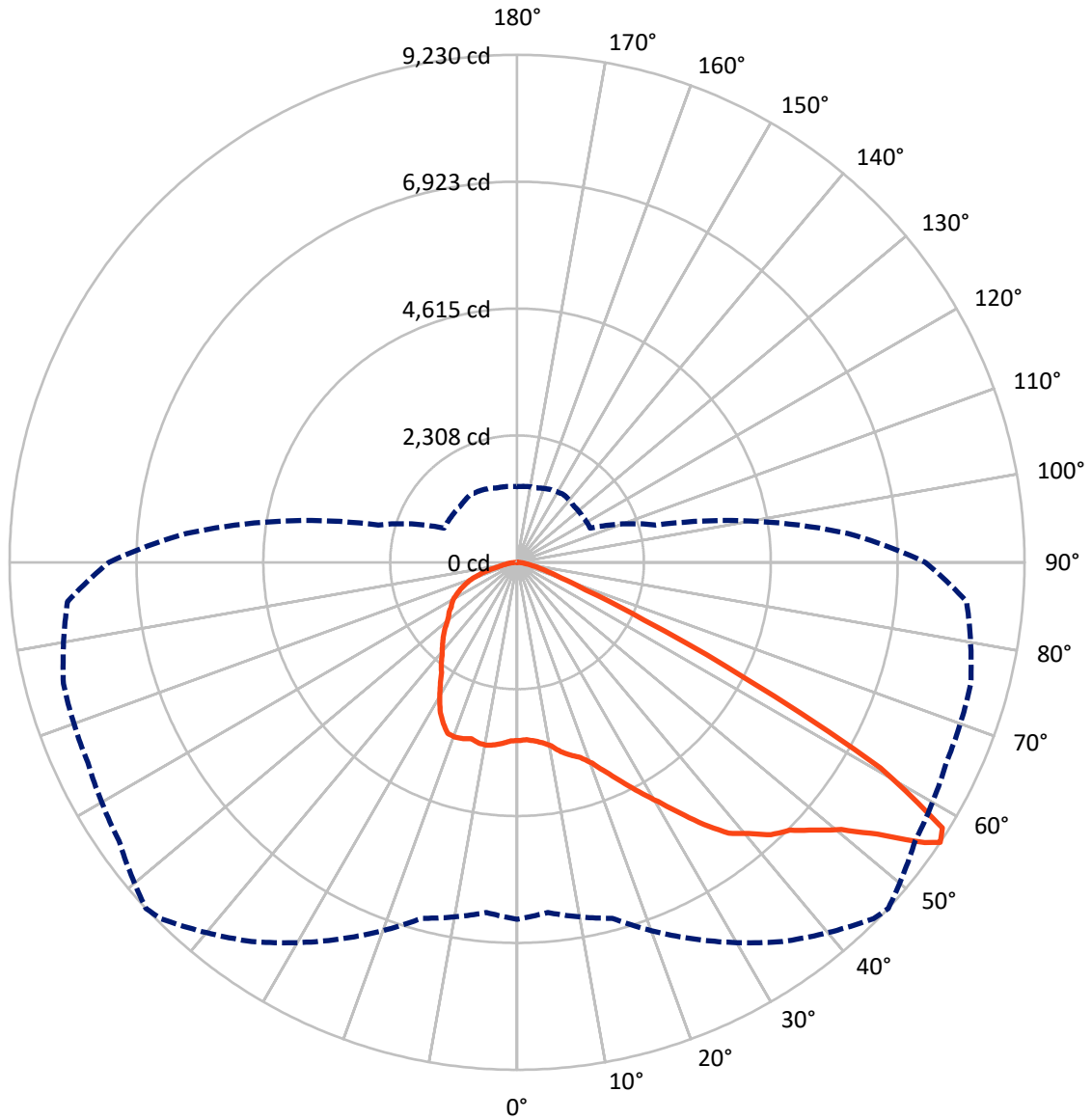
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5114.7	0.0	5114.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11025.7	0.0	11025.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	16140.5	0.0	16140.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	2.0
10°-20°	996.5	6.2
20°-30°	1761.6	10.9
30°-40°	2645.9	16.4
40°-50°	3631.2	22.5
50°-60°	4326.1	26.8
60°-70°	1851.3	11.5
70°-80°	523.9	3.2
80°-90°	88.2	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°	16140.5	100.0
0°-180°	16140.5	100.0

Coefficient of Utilization

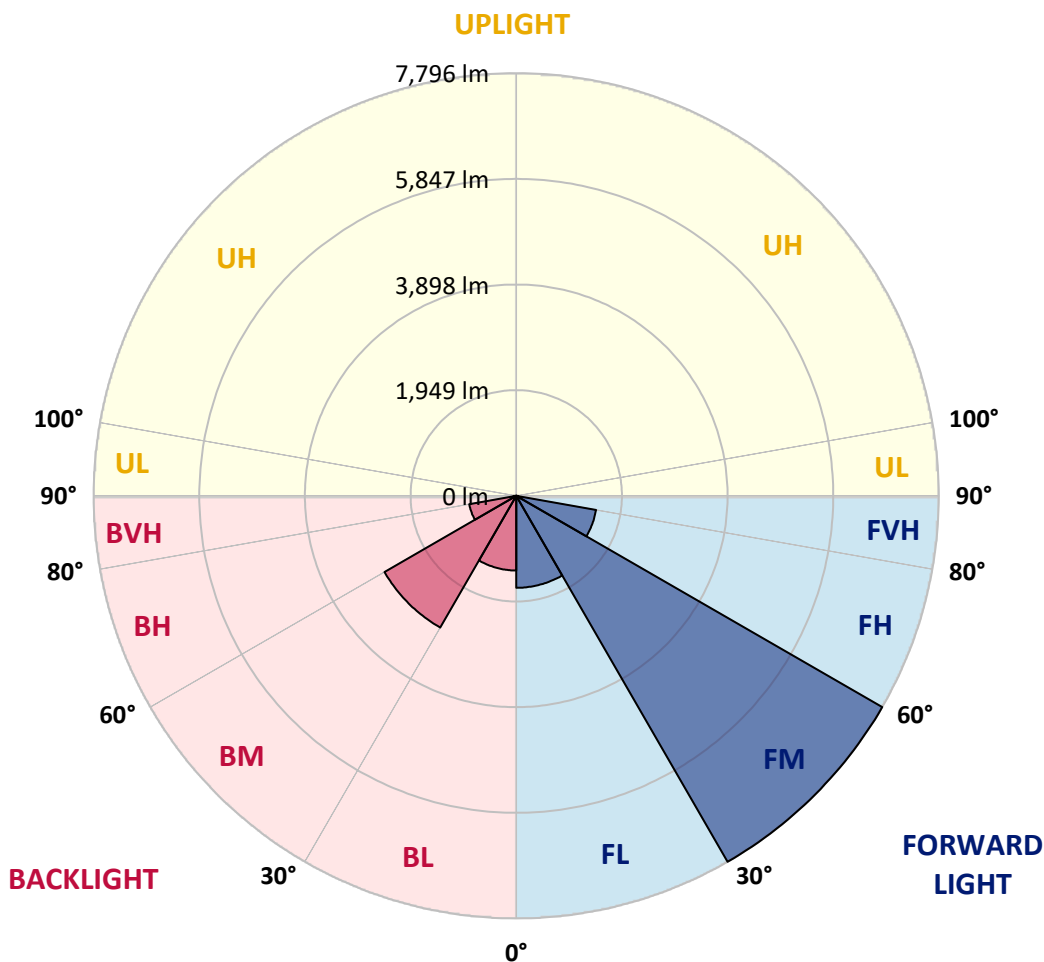


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.9	10.5			
FM (30°-60°)	7796.2	48.3			
FH (60°-80°)	1495.2	9.3			G1/1800
FVH (80°-90°)	37.4	0.2			G1/100
BL (0°-30°)	1377.1	8.5	B3/2500		
BM (30°-60°)	2806.9	17.4	B3/5000		
BH (60°-80°)	880.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	50.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1
2.5°	3229.8	3223.6	3219.5	3252.4	3240.0	3242.1	3229.8	3242.1	3250.4	3231.9	3258.6
5°	3223.6	3242.1	3225.7	3235.9	3262.7	3254.5	3262.7	3287.4	3281.2	3275.1	3266.9
7.5°	3281.2	3283.3	3295.6	3299.7	3308.0	3299.7	3312.1	3334.7	3328.6	3293.6	3297.7
10°	3363.6	3367.7	3369.7	3392.4	3406.8	3408.9	3394.4	3373.8	3371.8	3419.2	3386.2
12.5°	3458.3	3448.0	3472.7	3480.9	3497.4	3515.9	3534.5	3491.2	3518.0	3520.0	3480.9
15°	3596.2	3606.5	3577.7	3577.7	3583.8	3585.9	3637.3	3616.8	3612.7	3590.0	3606.5
17.5°	3802.1	3732.0	3730.0	3701.2	3697.0	3713.5	3732.0	3748.5	3804.1	3758.8	3670.3
20°	3952.3	3968.8	3909.1	3874.1	3880.3	3917.3	3898.8	3972.9	4012.0	3937.9	3851.4
22.5°	4217.9	4162.3	4176.7	4098.4	4104.7	4143.8	4141.7	4217.9	4240.5	4123.2	3997.6
25°	4396.9	4382.5	4394.9	4333.2	4341.3	4372.3	4421.6	4547.2	4510.2	4380.5	4090.2
27.5°	4658.4	4629.5	4619.3	4596.7	4588.4	4670.7	4728.4	4862.2	4835.4	4646.0	4254.9
30°	4926.0	4907.5	4917.7	4825.2	4858.0	5033.0	5049.4	5232.7	5220.3	4886.9	4438.1
32.5°	5111.3	5121.5	5140.0	5088.6	5234.7	5374.7	5430.3	5638.2	5648.5	5300.7	4792.2
35°	5409.7	5374.7	5385.0	5444.7	5512.7	5767.9	5858.5	5996.4	6082.9	5734.9	5131.9
37.5°	5597.0	5634.1	5590.9	5685.6	5862.6	6169.3	6251.7	6393.7	6484.3	6163.1	5595.0
40°	5889.4	5829.6	5860.5	5928.5	6109.6	6509.0	6486.3	6632.5	6661.3	6527.5	6027.3
42.5°	6204.3	6175.5	6132.2	6286.6	6438.9	6729.3	6774.5	6706.6	6852.7	6883.6	6644.8
45°	6581.0	6616.0	6622.2	6626.3	6760.1	7013.3	6951.5	6891.8	7060.6	7285.0	7027.7
47.5°	6930.9	6819.8	6900.1	7011.2	7200.6	7202.7	7274.7	7132.7	7311.7	7511.5	7373.6
50°	7048.3	6994.8	7101.8	7311.7	7604.1	7634.9	7643.2	7441.4	7534.1	7692.6	7492.9
52.5°	7003.0	6984.5	7258.3	7583.5	8011.7	8168.1	8209.3	7960.2	8011.7	7939.6	7756.4
55°	6786.9	6842.5	7118.3	7781.1	8437.8	8921.5	8999.7	8684.8	8357.5	8413.1	8211.4
56°	6490.4	6393.7	6702.4	7556.7	8419.3	9166.5	9230.3	8837.1	8614.8	8542.8	8207.2
57.5°	5506.4	5380.9	5786.4	6799.2	7952.0	9073.9	9121.2	8901.0	8571.6	8425.4	7608.2
60°	3223.6	3285.4	3800.0	4689.2	6134.3	7439.4	7597.9	7758.5	7538.2	6883.6	5663.0
62.5°	1556.2	1517.1	1885.6	2688.4	3738.2	4749.0	4701.6	5152.4	5399.5	4891.0	3575.6
65°	815.2	811.1	1029.2	1467.7	2054.4	2494.9	2538.1	2781.0	3120.7	2519.6	1815.6
67.5°	599.0	615.5	724.6	1031.3	1321.5	1348.3	1342.2	1463.6	1496.6	1266.0	1115.7
70°	469.4	477.6	557.8	784.3	984.0	881.0	862.5	876.9	973.7	1014.8	965.5
72.5°	339.7	347.9	415.8	529.1	615.5	601.1	613.4	693.7	813.1	856.3	804.8
75°	226.4	232.6	269.6	323.2	364.3	393.2	415.8	508.5	619.6	644.3	619.6
77.5°	156.4	162.6	187.3	228.5	232.6	251.1	259.4	302.6	370.5	401.4	384.9
80°	88.6	88.6	100.8	117.3	144.1	168.8	172.9	207.9	238.8	259.4	263.5
82.5°	41.2	43.2	53.5	72.1	94.7	117.3	121.4	144.1	166.8	187.3	193.5
85°	20.6	22.6	30.9	43.2	57.6	70.0	68.0	70.0	74.1	70.0	72.1
87.5°	6.1	6.1	8.2	10.3	8.2	10.3	10.3	12.4	14.4	16.5	18.5
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°	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1	3242.1
2.5°	3260.6	3266.9	3225.7	3264.8	3250.4	3248.3	3277.1	3273.0	3283.3	3279.1	3254.5
5°	3262.7	3248.3	3291.5	3252.4	3271.0	3310.1	3283.3	3345.1	3314.2	3334.7	3289.5
7.5°	3326.5	3330.6	3322.4	3338.9	3330.6	3349.2	3334.7	3349.2	3324.5	3326.5	3367.7
10°	3382.1	3369.7	3384.2	3363.6	3378.0	3371.8	3338.9	3328.6	3336.8	3326.5	3353.3
12.5°	3485.0	3462.4	3452.1	3427.4	3410.9	3349.2	3297.7	3268.9	3308.0	3314.2	3301.9
15°	3590.0	3592.1	3544.7	3489.1	3386.2	3293.6	3306.0	3316.2	3316.2	3332.7	3301.9
17.5°	3655.9	3655.9	3612.7	3501.5	3396.5	3343.0	3330.6	3297.7	3268.9	3264.8	3262.7
20°	3771.1	3736.1	3637.3	3499.4	3392.4	3367.7	3275.1	3196.8	3137.2	3116.6	3114.5
22.5°	3902.9	3814.4	3676.4	3503.5	3386.2	3351.2	3178.3	3061.0	2953.9	2908.7	2914.8
25°	4024.4	3882.3	3699.1	3485.0	3363.6	3194.8	3001.3	2838.6	2727.5	2690.4	2671.9
27.5°	4108.8	3954.4	3699.1	3501.5	3279.1	3019.8	2822.2	2614.2	2517.5	2492.8	2496.9
30°	4222.0	4045.0	3763.0	3466.5	3110.4	2793.4	2556.6	2420.8	2363.1	2342.6	2357.0
32.5°	4487.5	4281.7	3851.4	3382.1	2910.7	2567.0	2375.5	2299.4	2214.9	2173.7	2159.4
35°	4775.7	4506.1	3937.9	3240.0	2686.3	2361.1	2241.7	2171.7	2070.9	2025.5	2033.8
37.5°	5183.3	4794.2	3944.0	3005.4	2443.4	2245.8	2136.7	2027.7	1945.3	1875.3	1854.7
40°	5732.9	5187.4	3929.7	2758.4	2247.9	2110.0	2029.7	1893.8	1801.2	1751.8	1762.1
42.5°	6216.7	5648.5	3869.9	2478.4	2070.9	2017.3	1926.7	1792.9	1702.4	1650.9	1646.8
45°	6624.2	5988.2	3756.7	2239.7	1922.6	1914.4	1809.4	1706.5	1634.5	1587.1	1607.7
47.5°	7000.9	6261.9	3585.9	2000.8	1786.8	1803.3	1702.4	1638.6	1593.3	1550.0	1548.0
50°	7136.8	6257.8	3435.7	1803.3	1677.7	1669.5	1665.3	1597.4	1550.0	1513.0	1529.4
52.5°	7363.2	6327.9	3273.0	1667.4	1578.9	1580.9	1595.3	1545.9	1492.4	1469.7	1490.3
55°	7688.5	6338.1	2914.8	1508.8	1496.6	1510.9	1510.9	1478.0	1432.7	1414.2	1403.9
56°	7422.9	6031.4	2614.2	1467.7	1455.4	1455.4	1494.5	1457.5	1401.9	1387.4	1375.0
57.5°	6846.6	5284.2	2188.2	1418.3	1399.8	1428.6	1449.2	1410.1	1358.6	1338.0	1350.4
60°	4722.2	3575.6	1644.7	1311.3	1311.3	1358.6	1375.0	1317.4	1294.8	1292.7	1276.3
62.5°	2756.3	2083.2	1286.6	1214.5	1218.6	1257.7	1270.1	1237.2	1208.3	1243.3	1259.8
65°	1461.5	1243.3	1103.4	1111.5	1113.7	1144.5	1198.0	1196.0	1194.0	1204.2	1206.2
67.5°	1058.1	1033.3	1002.5	994.2	998.4	1021.0	1074.5	1115.7	1113.7	1088.9	1070.4
70°	942.8	907.8	889.3	891.3	874.9	901.6	944.9	971.6	924.3	895.4	883.1
72.5°	784.3	774.0	761.6	763.7	730.7	724.6	675.2	675.2	662.9	654.6	669.0
75°	599.0	594.9	601.1	590.8	555.8	518.7	489.9	463.1	422.0	405.5	397.3
77.5°	378.8	391.1	405.5	382.9	368.4	341.7	312.9	286.1	253.2	234.6	234.6
80°	257.3	267.6	277.9	273.7	257.3	232.6	210.0	181.2	158.5	144.1	142.0
82.5°	195.5	203.8	218.2	201.8	185.3	164.7	146.2	125.6	105.0	88.6	88.6
85°	70.0	80.3	88.6	96.7	102.9	105.0	90.6	74.1	59.7	47.3	45.2
87.5°	18.5	20.6	22.6	20.6	20.6	20.6	22.6	20.6	18.5	14.4	14.4
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)