

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: P455229

Luminaire Tested: **GALN-SA6B-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455229
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-SA6B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24598 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

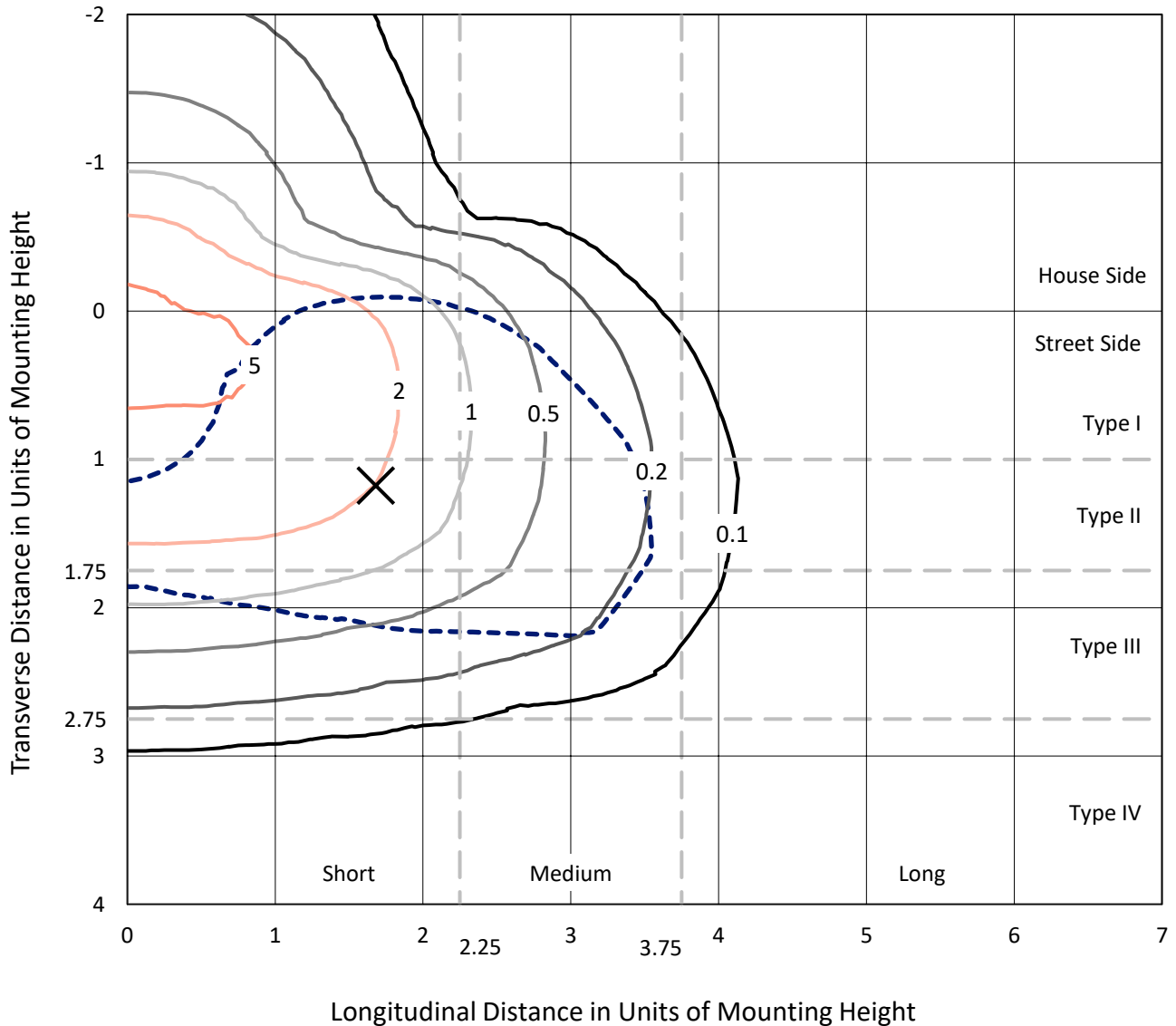
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455229
 CATALOG NUMBER: GALN-SA6B-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

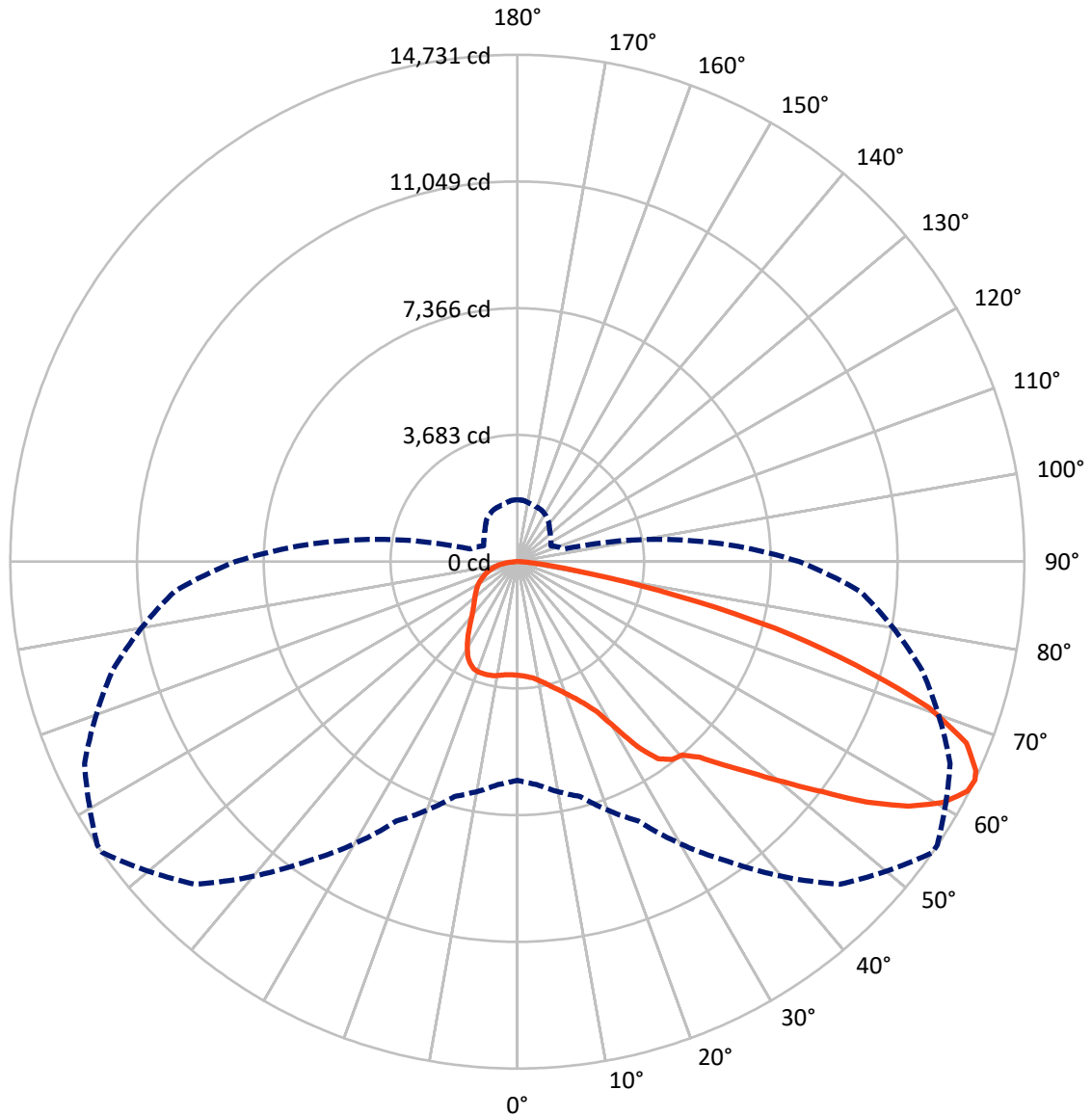
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P455229
CATALOG NUMBER: GALN-SA6B-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P455229

CATALOG NUMBER: GALN-SA6B-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5975.3	0.0	5975.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	18622.7	0.0	18622.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	24598.0	0.0	24598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.3
10°-20°	1013.0	4.1
20°-30°	1803.3	7.3
30°-40°	2774.6	11.3
40°-50°	3933.2	16.0
50°-60°	5693.3	23.1
60°-70°	5891.9	24.0
70°-80°	2759.2	11.2
80°-90°	408.5	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°	24598.0	100.0
0°-180°	24598.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455229

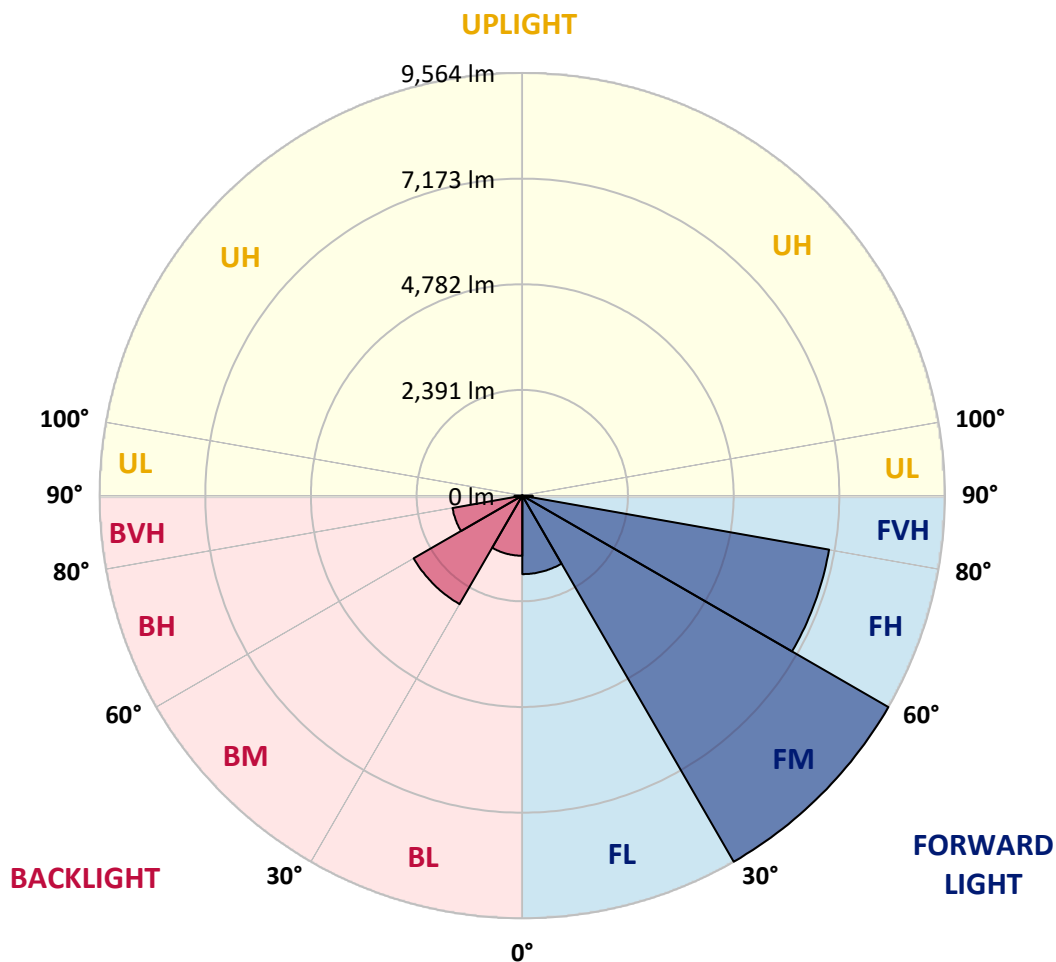
CATALOG NUMBER: GALN-SA6B-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.4	7.2			
FM	(30°-60°)	9564.4	38.9			
FH	(60°-80°)	7048.0	28.7			G3/7500
FVH	(80°-90°)	233.9	1.0			G3/500
BL	(0°-30°)	1360.9	5.5	B3/2500		
BM	(30°-60°)	2836.7	11.5	B3/5000		
BH	(60°-80°)	1603.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	174.6	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





REPORT NUMBER: P455229

CATALOG NUMBER: GALN-SA6B-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3
2.5°	3337.3	3336.0	3340.1	3336.0	3338.7	3329.1	3325.0	3327.7	3323.6	3316.8	3304.4
5°	3378.5	3377.1	3378.5	3373.0	3375.7	3370.2	3360.6	3363.4	3356.5	3341.4	3323.6
7.5°	3448.4	3442.9	3442.9	3441.5	3436.1	3427.8	3421.0	3418.2	3411.4	3392.2	3364.8
10°	3538.9	3538.9	3540.3	3529.3	3536.1	3521.1	3514.2	3512.8	3489.5	3464.8	3426.5
12.5°	3658.2	3665.0	3660.9	3655.4	3652.7	3647.2	3623.9	3629.4	3603.3	3560.8	3514.2
15°	3806.3	3817.2	3810.4	3807.6	3800.8	3780.2	3770.6	3766.5	3732.2	3670.5	3608.8
17.5°	4002.3	3988.6	3983.1	3976.3	3947.5	3932.4	3915.9	3913.2	3883.0	3810.4	3714.4
20°	4173.7	4192.9	4181.9	4175.1	4146.3	4117.5	4105.2	4101.0	4075.0	3995.5	3841.9
22.5°	4378.0	4382.1	4386.2	4369.8	4356.1	4334.1	4312.2	4305.3	4295.7	4213.5	4025.6
25°	4596.0	4612.5	4598.8	4582.3	4565.9	4564.5	4585.1	4582.3	4578.2	4498.7	4269.7
27.5°	4951.1	4966.2	4970.3	4952.5	4889.4	4894.9	4941.6	4956.6	5019.7	4888.1	4583.7
30°	5151.3	5166.4	5200.7	5267.9	5368.0	5455.7	5568.2	5602.4	5662.8	5414.6	4956.6
32.5°	5274.7	5280.2	5341.9	5466.7	5767.0	6094.7	6400.4	6412.8	6451.2	6102.9	5298.0
35°	5469.4	5473.5	5522.9	5660.0	6012.4	6558.1	7031.2	7046.2	7014.7	6316.8	5457.1
37.5°	5709.4	5720.4	5751.9	5865.7	6286.6	6946.1	7293.0	7282.1	7002.4	6486.8	5738.2
40°	6059.0	6059.0	6022.0	6175.6	6575.9	7168.3	7384.9	7365.7	7291.7	6979.1	6166.0
42.5°	6367.5	6362.0	6449.8	6554.0	6937.9	7511.0	7770.2	7801.7	7923.8	7597.4	6652.7
45°	6769.3	6793.9	6843.3	7032.5	7553.6	8096.5	8431.1	8461.2	8634.0	8325.5	7221.7
47.5°	7175.1	7183.3	7338.3	7590.6	8315.9	8890.4	9164.6	9214.0	9371.7	9177.0	7834.6
50°	7463.1	7541.2	7789.4	8187.0	9101.6	9858.4	10072.3	10131.3	10409.6	10103.9	8549.0
52.5°	7767.4	7844.2	8147.3	8753.3	10003.8	10848.4	11111.6	11151.4	11440.7	11041.7	9279.8
55°	8028.0	8099.3	8443.4	9255.1	10722.2	11858.9	12336.1	12289.4	12427.9	11764.3	9843.3
57.5°	8070.5	8128.1	8561.3	9576.0	11262.5	12725.5	13409.6	13437.1	13276.6	12304.5	10308.2
60°	7741.4	7859.3	8357.0	9541.7	11505.1	13328.8	14210.4	14229.6	13774.4	12581.5	10493.3
62.5°	7158.7	7146.3	7748.3	8990.5	11165.1	13465.9	14682.1	14661.5	13969.1	12448.5	10313.6
64°	6353.8	6501.9	7064.1	8313.2	10616.7	13254.7	14731.4	14720.4	13875.8	12171.5	10007.9
65°	5863.0	5854.7	6410.0	7759.2	10070.9	12936.6	14643.7	14628.6	13681.1	11923.3	9770.7
67.5°	4232.7	4251.9	4800.3	5987.7	8187.0	11693.0	14071.9	14015.7	12913.3	11100.7	8868.5
70°	2564.0	2575.0	3005.5	3972.2	5876.7	9452.6	12684.3	12687.1	11738.2	9872.1	7548.1
72.5°	1350.6	1379.4	1552.1	2255.5	3569.1	6632.2	10290.3	10534.4	10077.8	8425.6	5963.0
75°	751.4	755.5	877.5	1112.0	1820.9	3711.6	7734.5	7804.5	7978.6	6781.6	4409.6
77.5°	573.1	581.4	619.8	718.5	991.3	1720.8	4681.0	5032.0	5623.0	4781.1	2516.0
80°	464.8	473.0	505.9	564.9	659.5	815.8	2174.6	2363.8	3009.6	2122.5	981.7
82.5°	362.0	356.5	399.0	437.4	479.9	482.6	892.6	987.2	1225.8	913.2	425.1
85°	268.7	268.7	303.0	294.8	309.9	282.5	393.5	434.6	490.9	388.0	197.4
87.5°	106.9	117.9	198.8	178.2	138.5	111.1	145.3	153.6	170.0	152.2	82.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455229

CATALOG NUMBER: GALN-SA6B-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3
2.5°	3305.8	3309.9	3300.3	3293.5	3290.7	3286.6	3282.5	3283.9	3289.3	3294.8	3293.5
5°	3322.2	3323.6	3307.2	3298.9	3293.5	3288.0	3288.0	3292.1	3303.1	3311.3	3311.3
7.5°	3363.4	3363.4	3340.1	3325.0	3316.8	3307.2	3304.4	3305.8	3314.0	3325.0	3326.4
10°	3427.8	3422.3	3392.2	3368.9	3353.8	3330.5	3309.9	3298.9	3303.1	3309.9	3309.9
12.5°	3506.0	3490.9	3452.5	3421.0	3383.9	3340.1	3297.6	3275.6	3274.3	3281.1	3278.4
15°	3589.6	3573.2	3519.7	3462.1	3397.7	3333.2	3282.5	3250.9	3226.3	3219.4	3234.5
17.5°	3687.0	3652.7	3578.6	3499.1	3403.1	3319.5	3240.0	3175.5	3131.7	3119.3	3123.4
20°	3804.9	3759.6	3659.5	3534.8	3399.0	3270.1	3146.7	3060.4	2989.1	2967.1	2969.9
22.5°	3968.0	3889.9	3743.2	3552.6	3364.8	3176.9	3005.5	2893.1	2806.7	2772.4	2793.0
25°	4153.2	4068.1	3822.7	3548.5	3275.6	3027.5	2838.2	2691.5	2613.4	2562.6	2573.6
27.5°	4408.2	4257.4	3907.7	3511.5	3148.1	2845.1	2625.7	2487.2	2415.9	2389.9	2402.2
30°	4734.5	4502.8	3999.6	3411.4	2946.6	2614.7	2411.8	2321.3	2278.8	2245.9	2256.9
32.5°	4970.3	4675.6	4020.2	3242.7	2728.5	2405.0	2266.5	2199.3	2152.7	2121.1	2128.0
35°	5139.0	4822.3	4010.6	3035.7	2500.9	2232.2	2151.3	2096.5	2021.0	1952.5	1940.1
37.5°	5365.2	5006.0	3940.6	2809.4	2276.1	2115.7	2058.1	1956.6	1848.3	1756.4	1752.3
40°	5712.1	5221.3	3791.2	2543.4	2084.1	2029.3	1959.3	1827.7	1711.2	1637.1	1631.6
42.5°	6070.0	5420.1	3588.2	2263.7	1926.4	1938.8	1853.8	1723.5	1652.2	1604.2	1598.7
45°	6507.4	5635.3	3368.9	2021.0	1809.9	1853.8	1761.9	1686.5	1644.0	1612.4	1604.2
47.5°	6980.4	5856.1	3122.1	1803.0	1711.2	1775.6	1723.5	1689.2	1665.9	1644.0	1634.4
50°	7490.5	6102.9	2890.3	1627.5	1622.0	1694.7	1719.4	1707.1	1693.3	1686.5	1678.3
52.5°	8049.9	6355.2	2695.6	1504.1	1543.9	1637.1	1720.8	1730.4	1730.4	1726.3	1720.8
55°	8428.3	6530.7	2498.2	1404.0	1464.4	1590.5	1718.0	1755.0	1768.8	1763.3	1757.8
57.5°	8708.0	6626.7	2250.0	1317.7	1397.2	1545.3	1702.9	1757.8	1771.5	1778.4	1775.6
60°	8765.6	6537.5	1925.1	1227.2	1324.5	1479.4	1648.1	1716.7	1734.5	1777.0	1781.1
62.5°	8506.5	6263.3	1601.5	1138.0	1235.4	1379.4	1574.1	1670.0	1705.7	1771.5	1778.4
64°	8188.4	5956.2	1421.9	1081.8	1177.8	1323.1	1537.0	1657.7	1704.3	1792.1	1797.6
65°	7955.3	5732.7	1309.4	1046.2	1140.8	1286.1	1516.5	1661.8	1716.7	1823.6	1831.8
67.5°	7097.0	4963.5	1083.2	962.5	1053.0	1223.0	1520.6	1696.1	1713.9	1835.9	1834.6
70°	5872.5	3951.6	907.7	885.7	968.0	1172.3	1504.1	1641.2	1642.6	1723.5	1704.3
72.5°	4397.2	2920.5	787.0	806.2	873.4	1051.7	1420.5	1567.2	1543.9	1554.9	1535.7
75°	3020.6	1931.9	677.3	721.2	774.7	929.6	1302.6	1423.2	1386.2	1372.5	1358.8
77.5°	1612.4	1068.1	563.5	637.6	673.2	803.5	1136.7	1253.2	1214.8	1161.3	1143.5
80°	652.7	503.2	453.8	527.9	548.5	647.2	946.1	1018.7	990.0	896.7	866.6
82.5°	327.7	301.6	356.5	415.5	416.8	462.1	703.4	771.9	707.5	593.7	567.6
85°	171.4	176.9	245.4	292.1	257.8	249.5	422.3	467.6	429.2	372.9	335.9
87.5°	61.7	71.3	128.9	127.5	90.5	48.0	93.2	45.2	24.7	15.1	19.2
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)