

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: P455146

Luminaire Tested: **GALN-SA6B-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455146
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-SA6B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 33668 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

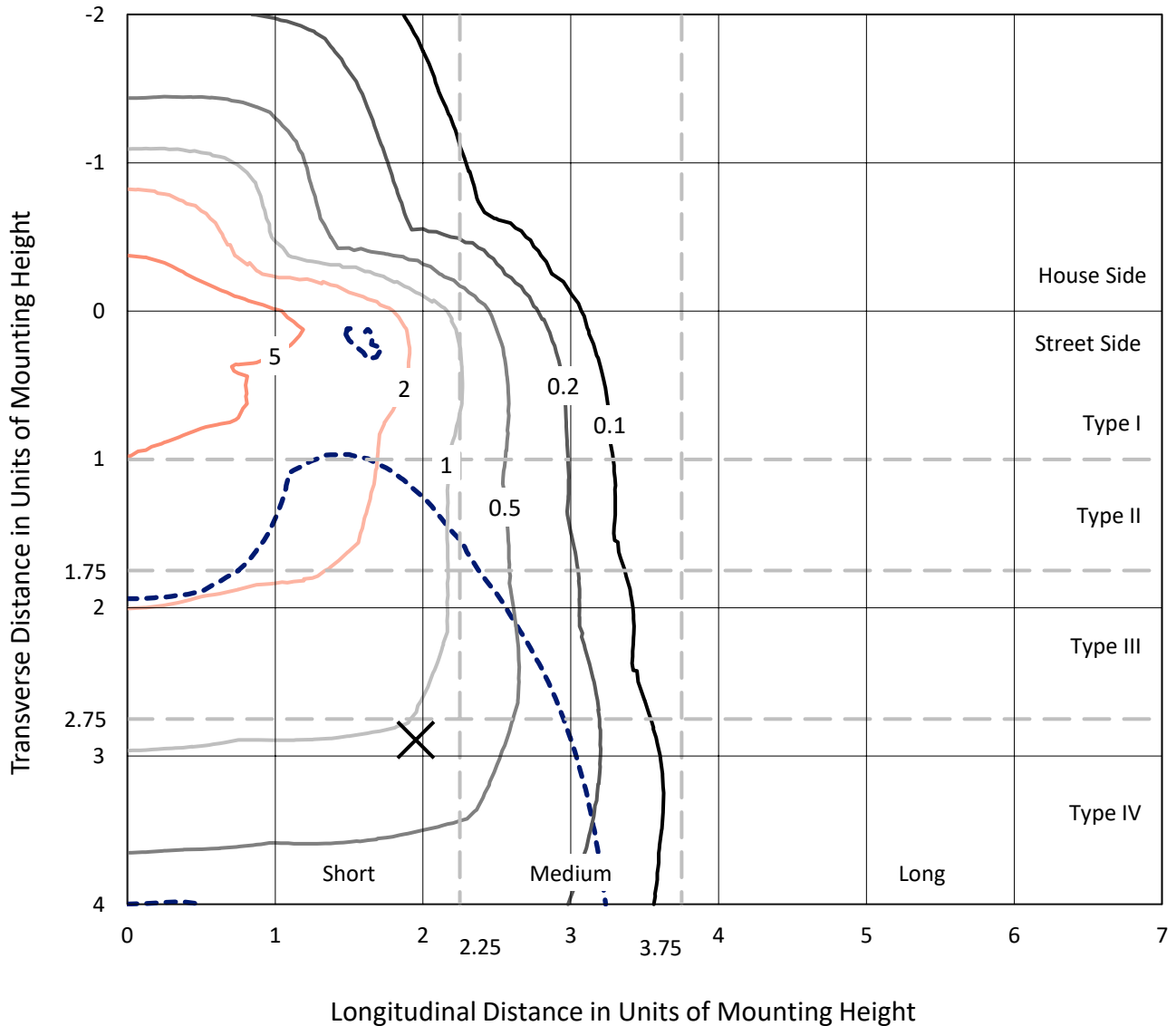
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

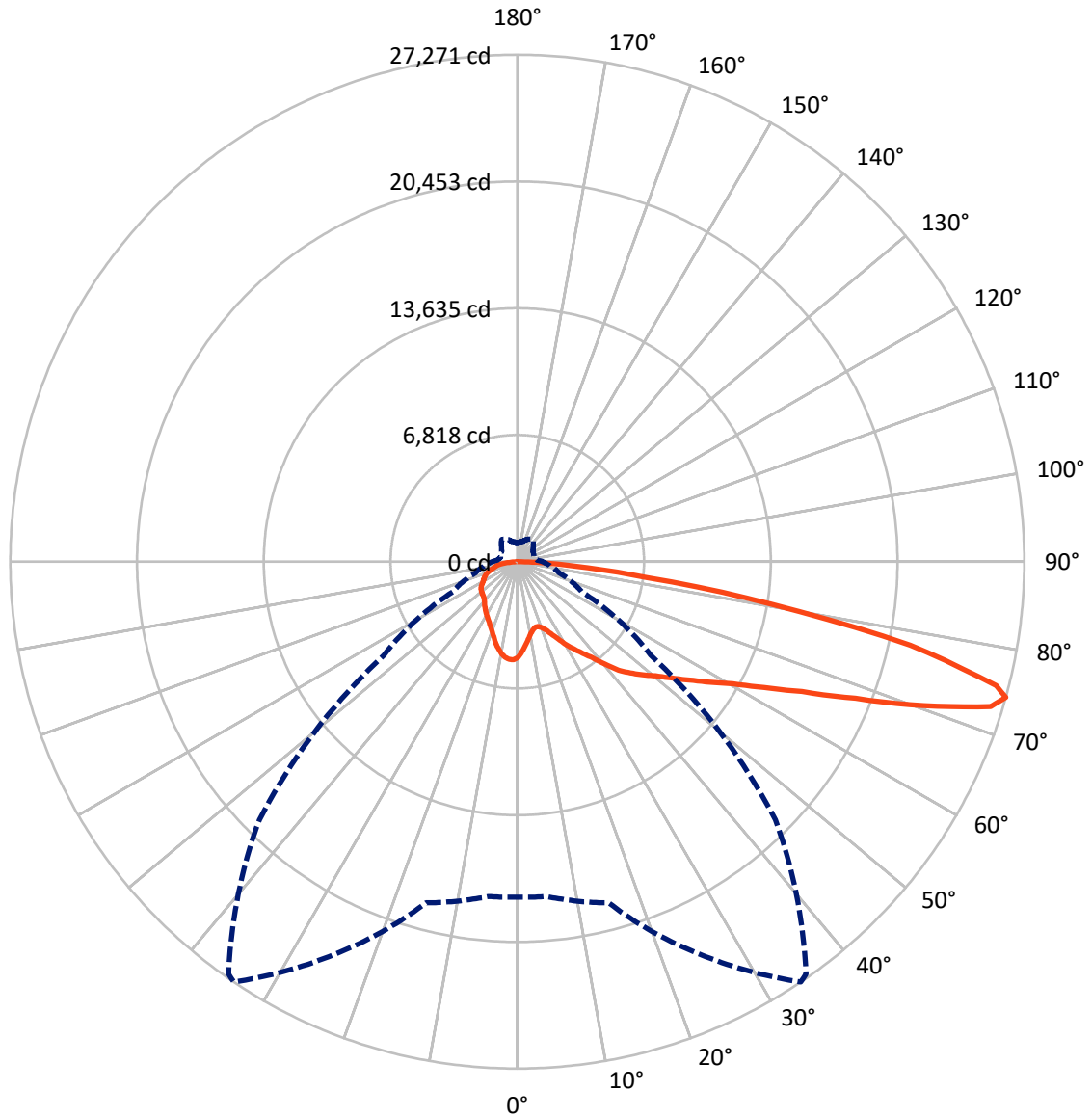
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	7164.8	0.0	7164.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26503.2	0.0	26503.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	33668.0	0.0	33668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.5	1.4
10°-20°	1279.8	3.8
20°-30°	2110.0	6.3
30°-40°	3160.5	9.4
40°-50°	4594.6	13.6
50°-60°	6417.5	19.1
60°-70°	8034.4	23.9
70°-80°	6643.8	19.7
80°-90°	960.0	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°	33668.0	100.0
0°-180°	33668.0	100.0

Coefficient of Utilization



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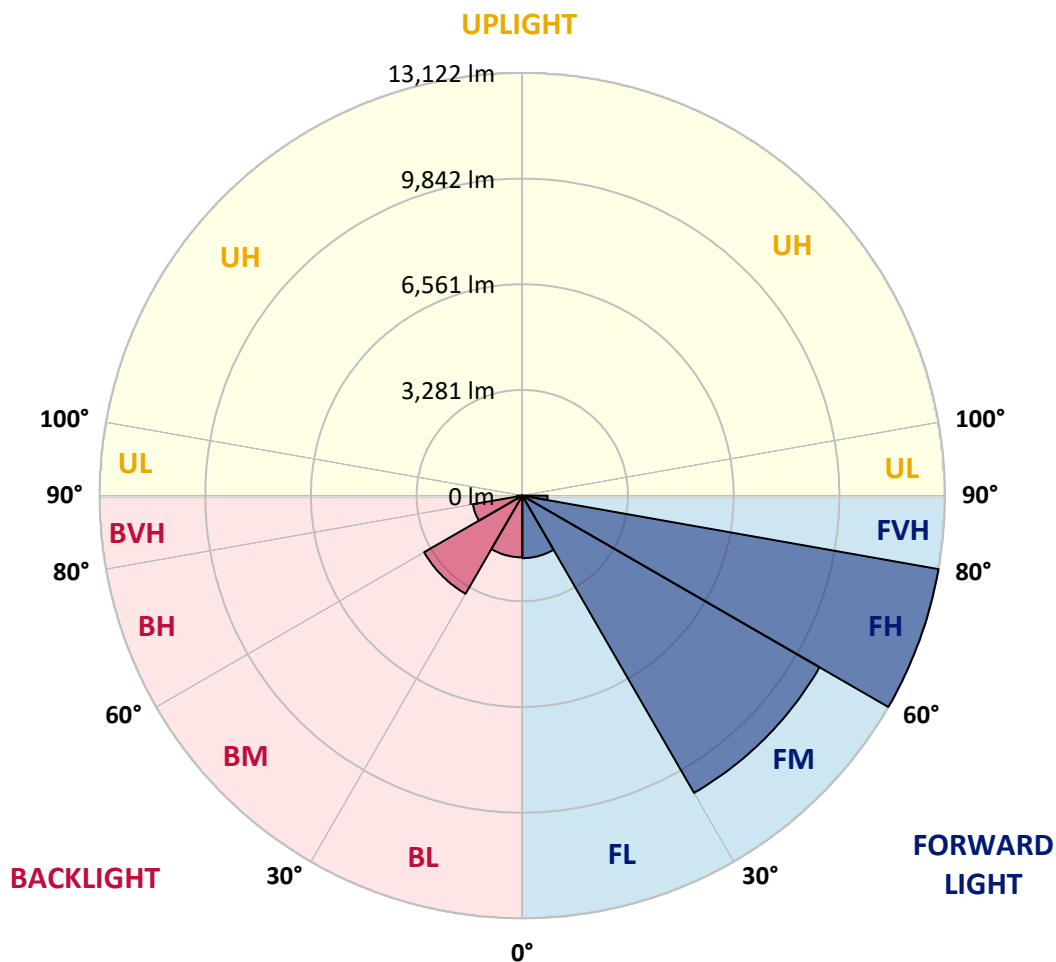
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1940.8	5.8			
FM	(30°-60°)	10654.0	31.6			
FH	(60°-80°)	13122.0	39.0			G5
FVH	(80°-90°)	786.4	2.3			G5
BL	(0°-30°)	1916.5	5.7	B3/2500		
BM	(30°-60°)	3518.6	10.5	B3/5000		
BH	(60°-80°)	1556.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	173.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4
2.5°	4750.6	4774.9	4787.9	4834.5	4845.7	4860.7	4899.8	4952.1	5019.2	5078.9	5131.1
5°	4355.2	4392.5	4414.9	4455.9	4536.1	4543.6	4648.0	4767.4	4903.6	5030.4	5134.8
7.5°	3980.3	4021.3	4040.0	4114.6	4220.9	4237.7	4390.6	4579.0	4806.6	4998.7	5159.1
10°	3698.7	3719.2	3760.2	3816.2	3943.0	3954.2	4153.8	4405.6	4700.3	4983.8	5200.1
12.5°	3545.7	3556.9	3566.2	3625.9	3750.9	3767.7	3976.6	4261.9	4616.3	4995.0	5267.3
15°	3568.1	3571.8	3530.8	3542.0	3642.7	3666.9	3874.0	4166.8	4564.1	5022.9	5368.0
17.5°	3756.5	3743.4	3642.7	3590.5	3661.3	3672.5	3853.5	4129.5	4539.8	5075.2	5472.4
20°	4053.0	4034.4	3860.9	3745.3	3786.3	3795.6	3920.6	4157.5	4564.1	5161.0	5634.7
22.5°	4422.3	4414.9	4151.9	4012.0	4010.1	4010.1	4075.4	4258.2	4636.8	5278.5	5804.4
25°	4939.0	4899.8	4556.6	4375.7	4325.4	4321.6	4314.2	4424.2	4730.1	5403.4	6005.9
27.5°	5468.7	5401.6	5095.7	4817.8	4709.6	4696.5	4648.0	4659.2	4849.5	5545.2	6235.3
30°	5944.3	5901.4	5614.2	5306.4	5177.7	5147.9	5013.6	4952.1	5049.0	5800.7	6600.9
32.5°	6308.0	6281.9	6058.1	5778.3	5588.1	5582.5	5386.6	5336.3	5360.5	6110.3	7018.7
35°	6602.7	6612.1	6498.3	6255.8	6037.6	6005.9	5875.3	5811.9	5741.0	6558.0	7544.7
37.5°	7005.6	7026.1	7018.7	6809.8	6543.1	6550.5	6520.7	6416.2	6227.8	7057.8	8128.5
40°	7449.5	7464.5	7462.6	7382.4	7242.5	7250.0	7238.8	7119.4	6837.8	7693.9	8777.5
42.5°	8063.2	7992.3	7807.6	7887.8	7969.9	8005.4	8081.8	7968.1	7582.0	8372.8	9387.5
45°	8749.6	8615.3	8197.5	8234.8	8538.8	8605.9	9027.5	8870.8	8389.6	9152.4	10105.5
47.5°	9182.3	9049.9	8697.3	8689.9	9092.8	9158.0	9904.1	9846.3	9124.5	9993.6	10982.2
50°	9568.4	9549.7	9152.4	9247.6	9641.1	9738.1	10859.1	10805.0	9857.5	10985.9	11937.2
52.5°	10141.0	9989.9	9672.8	9868.7	10389.1	10515.9	11806.6	11648.1	10530.8	11862.5	12864.2
55°	10398.4	10362.9	10344.3	10514.0	11228.4	11319.8	12728.0	12364.3	11105.3	12604.9	13569.2
57.5°	11086.6	11021.4	11206.0	11321.6	12216.9	12356.8	13690.4	13112.2	11608.9	13194.3	13912.4
60°	11978.2	11942.8	12112.5	12321.4	13321.1	13533.8	14787.2	13750.1	12013.6	13490.9	13724.0
62.5°	13309.9	13306.2	13274.5	13722.1	14886.0	15081.9	16046.1	14371.2	12077.0	13268.9	12750.4
65°	15219.9	15152.7	14876.7	15365.4	16833.3	17062.7	17357.4	14718.1	11694.7	12129.3	10736.0
67.5°	17217.5	17213.8	16989.9	17624.1	19629.2	19866.0	18996.9	14641.7	10633.4	9825.8	7624.9
70°	18873.8	18793.6	19078.9	20768.8	23201.0	23475.2	20431.2	13740.8	8469.8	6489.0	4530.5
72.5°	19271.0	19274.8	19867.9	23193.5	26631.0	26673.9	20947.8	11137.0	5668.3	3579.3	2266.2
74°	18047.5	18079.2	18998.7	23314.8	27270.8	27076.8	19627.3	8753.3	3832.9	2337.1	1633.9
75°	16473.3	16273.7	17603.6	22507.1	26606.8	26397.9	18081.1	7024.3	2924.6	1867.0	1430.6
77.5°	8807.4	9010.7	11062.4	16796.0	21615.6	21375.0	12259.8	3368.5	1579.8	1300.0	1029.6
80°	3135.4	3458.0	4860.7	8788.7	13858.3	13932.9	5851.1	1544.4	1111.6	958.7	727.4
82.5°	1279.5	1315.0	2087.1	3900.1	7037.3	7104.5	2389.3	917.7	794.6	660.3	434.6
85°	499.9	514.8	923.3	1753.3	3002.9	3198.8	826.3	484.9	488.7	378.6	222.0
87.5°	167.9	190.2	378.6	583.8	1020.3	999.7	240.6	143.6	175.3	164.1	69.0
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°	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4	5140.4
2.5°	5157.2	5192.7	5216.9	5243.0	5267.3	5274.7	5269.1	5285.9	5287.8	5289.7	5291.5
5°	5187.1	5235.6	5282.2	5308.3	5319.5	5310.2	5278.5	5261.7	5246.8	5235.6	5239.3
7.5°	5228.1	5297.1	5340.0	5351.2	5321.4	5278.5	5200.1	5138.6	5099.4	5073.3	5071.4
10°	5291.5	5358.7	5394.1	5362.4	5280.3	5175.9	5052.8	4937.1	4849.5	4823.4	4821.5
12.5°	5371.7	5448.2	5446.3	5353.1	5209.4	5022.9	4823.4	4689.1	4569.7	4510.0	4534.3
15°	5476.2	5534.0	5479.9	5312.0	5084.5	4829.0	4582.7	4400.0	4265.7	4202.3	4206.0
17.5°	5597.4	5647.8	5504.1	5239.3	4909.2	4580.9	4295.5	4122.0	4015.7	3969.1	3965.4
20°	5748.5	5763.4	5504.1	5112.5	4683.5	4291.8	4019.5	3898.2	3838.5	3814.3	3821.8
22.5°	5910.8	5880.9	5474.3	4933.4	4386.9	3989.6	3806.8	3752.7	3722.9	3719.2	3722.9
25°	6093.5	6009.6	5412.8	4690.9	4077.3	3728.5	3622.2	3631.5	3637.1	3637.1	3650.2
27.5°	6317.4	6149.5	5310.2	4385.0	3715.4	3486.0	3456.2	3521.5	3551.3	3556.9	3566.2
30°	6612.1	6302.4	5140.4	4002.7	3407.7	3267.8	3320.0	3407.7	3441.3	3461.8	3458.0
32.5°	6962.7	6470.3	4911.0	3620.3	3159.6	3114.9	3178.3	3267.8	3305.1	3316.3	3301.4
35°	7374.9	6660.6	4608.9	3262.2	2943.3	2969.4	3044.0	3072.0	3105.5	3105.5	3113.0
37.5°	7818.8	6813.5	4239.6	2933.9	2775.4	2870.5	2924.6	2898.5	2883.6	2864.9	2874.2
40°	8270.2	6927.3	3760.2	2609.4	2607.5	2767.9	2782.8	2708.2	2648.6	2629.9	2620.6
42.5°	8663.8	6998.2	3327.5	2357.6	2449.0	2667.2	2678.4	2559.0	2463.9	2407.9	2389.3
45°	9128.2	7080.2	2904.1	2148.7	2301.6	2587.0	2615.0	2454.6	2314.7	2197.2	2167.3
47.5°	9764.2	7266.7	2570.2	1986.4	2195.3	2536.6	2575.8	2368.8	2184.1	2031.2	2006.9
50°	10482.3	7522.3	2311.0	1876.4	2113.2	2491.9	2540.4	2281.1	2062.9	1893.2	1874.5
52.5°	11140.7	7660.3	2087.1	1777.5	2033.0	2409.8	2493.7	2217.7	1943.5	1755.1	1738.3
55°	11500.7	7436.5	1867.0	1680.5	1923.0	2303.5	2428.5	2130.0	1827.9	1682.4	1658.1
57.5°	11549.2	6973.9	1667.5	1576.1	1807.4	2172.9	2307.2	2023.7	1753.3	1632.0	1611.5
60°	11174.3	6283.8	1512.7	1490.3	1689.9	2025.6	2171.1	1930.5	1676.8	1576.1	1555.6
62.5°	10241.7	5534.0	1404.5	1411.9	1570.5	1870.8	2070.4	1840.9	1604.1	1514.5	1495.9
65°	8637.7	4567.8	1300.0	1331.7	1464.2	1749.5	1979.0	1766.3	1531.3	1467.9	1451.1
67.5°	6000.3	3297.6	1214.2	1247.8	1363.4	1626.4	1872.6	1686.1	1449.2	1415.7	1389.6
70°	3321.9	2029.3	1113.5	1152.7	1259.0	1488.4	1753.3	1564.9	1329.9	1315.0	1277.6
72.5°	1745.8	1292.6	999.7	1042.6	1117.2	1311.2	1570.5	1432.5	1212.4	1149.0	1100.5
74°	1363.4	1059.4	923.3	968.0	1018.4	1206.8	1462.3	1337.3	1128.4	1053.8	1016.5
75°	1188.1	943.8	858.0	915.8	960.6	1135.9	1378.4	1270.2	1081.8	1010.9	977.4
77.5°	839.3	706.9	701.3	770.3	794.6	996.0	1242.2	1156.4	964.3	889.7	858.0
80°	589.4	529.7	555.8	598.7	632.3	880.4	1152.7	999.7	790.8	703.2	692.0
82.5°	384.2	346.9	397.3	436.5	447.6	649.1	930.7	759.1	576.3	468.2	434.6
85°	177.2	173.5	227.6	222.0	220.1	317.1	552.1	443.9	332.0	248.1	233.1
87.5°	44.8	42.9	56.0	46.6	56.0	48.5	50.4	13.1	1.9	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)