

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: P459177

Luminaire Tested: **GALN-SA6C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459177
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-SA6C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 38750 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

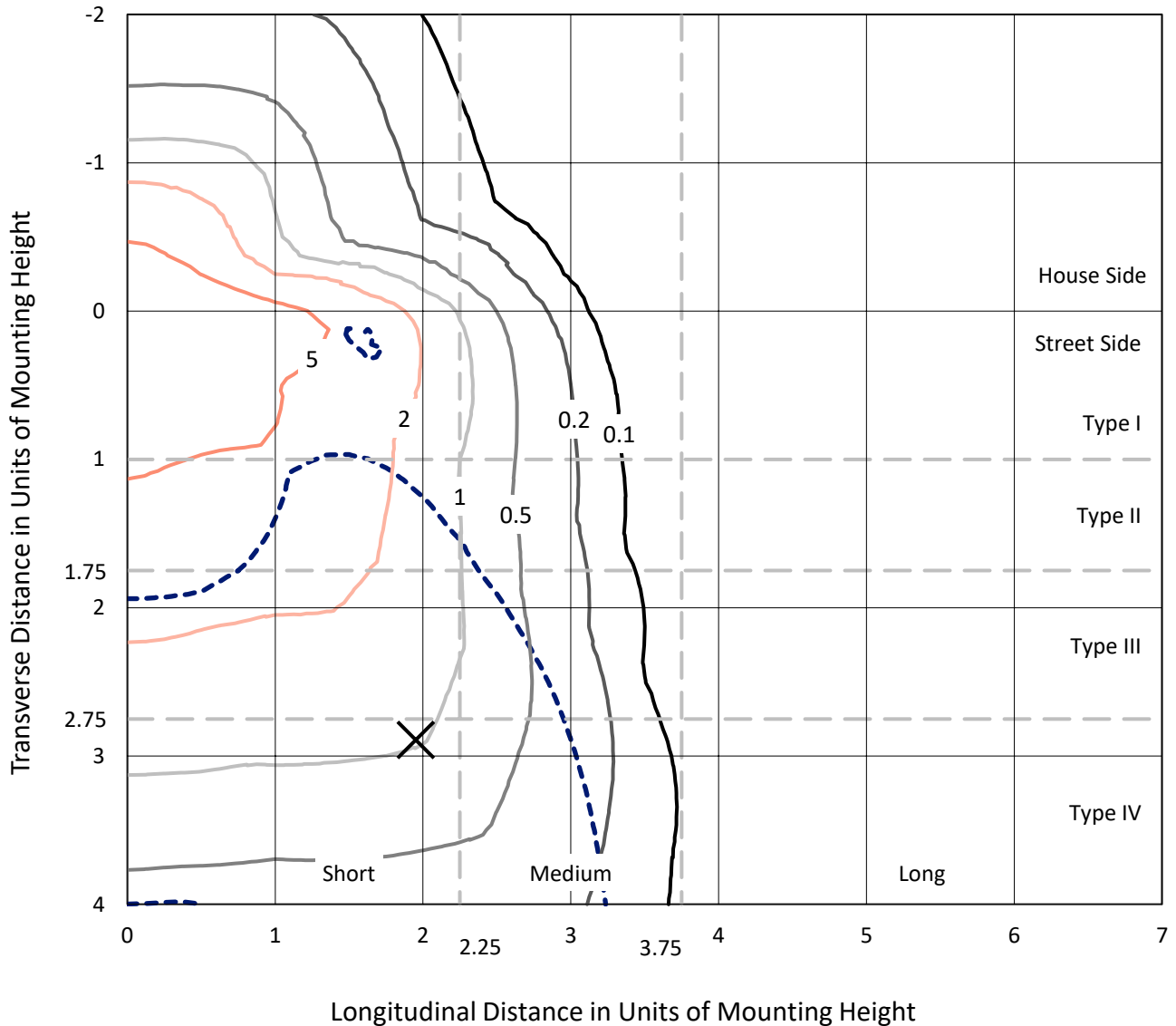
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

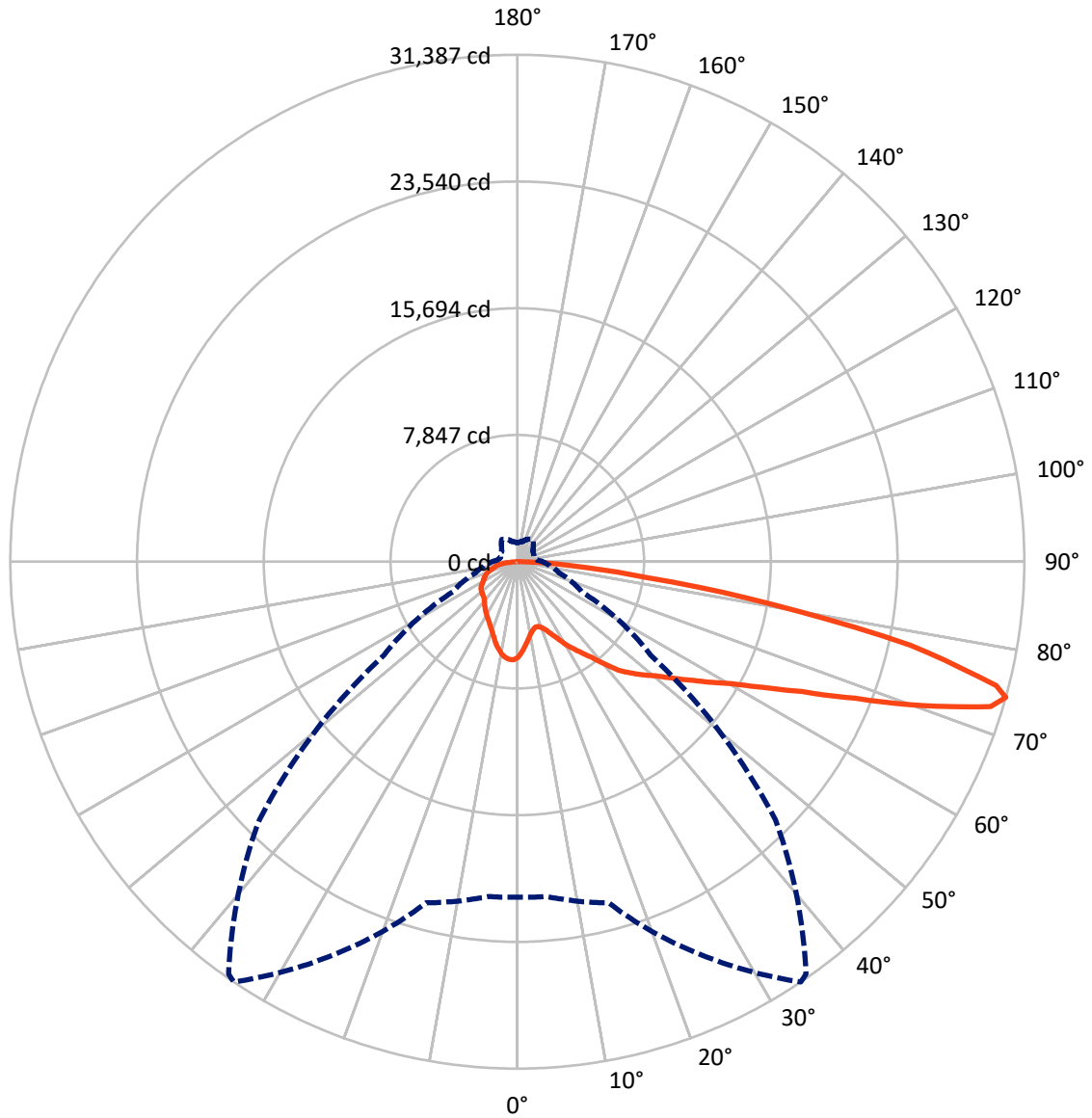
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	8246.3	0.0	8246.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	30503.7	0.0	30503.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	38750.0	0.0	38750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.1	1.4
10°-20°	1472.9	3.8
20°-30°	2428.5	6.3
30°-40°	3637.6	9.4
40°-50°	5288.1	13.6
50°-60°	7386.2	19.1
60°-70°	9247.1	23.9
70°-80°	7646.6	19.7
80°-90°	1104.9	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°	38750.0	100.0
0°-180°	38750.0	100.0

Coefficient of Utilization



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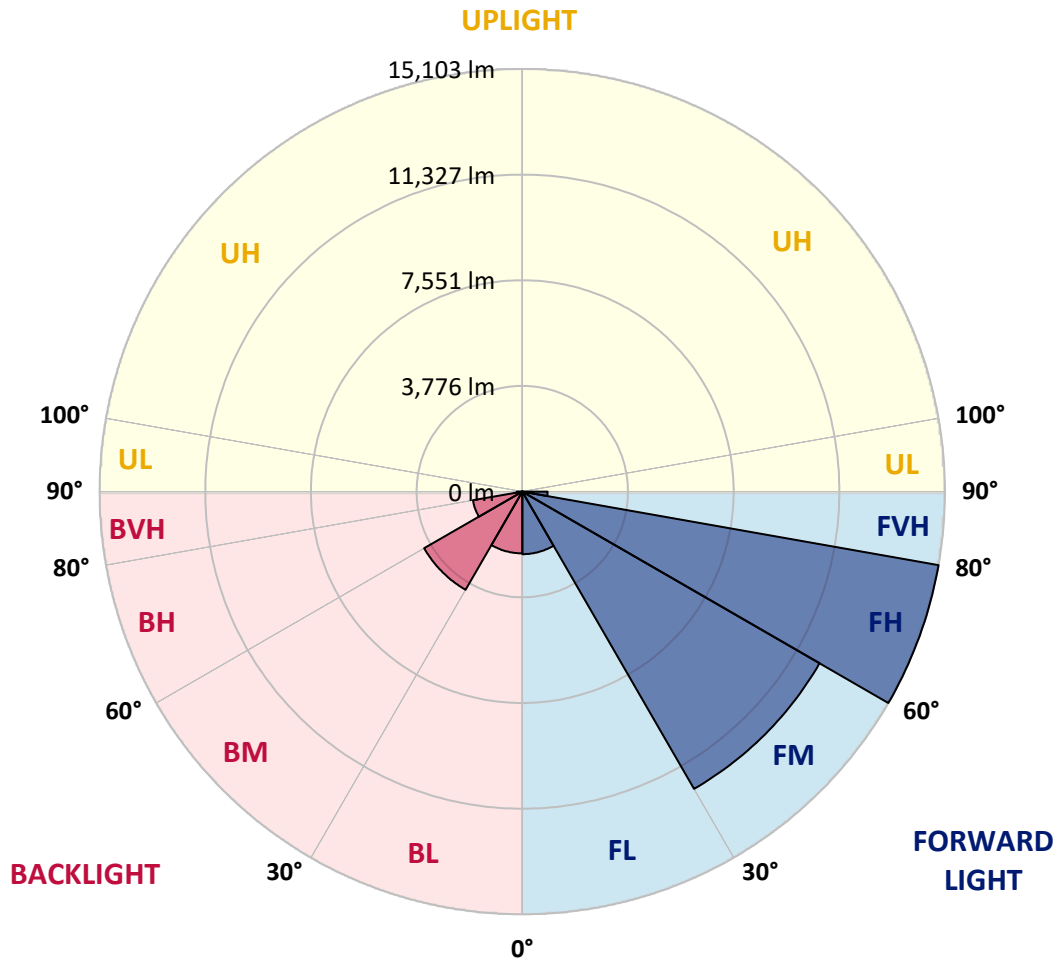
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.8	5.8			
FM (30°-60°)	12262.1	31.6			
FH (60°-80°)	15102.7	39.0			G5
FVH (80°-90°)	905.2	2.3			G5
BL (0°-30°)	2205.7	5.7	B3/2500		
BM (30°-60°)	4049.8	10.5	B3/5000		
BH (60°-80°)	1791.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	199.7	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°	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4
2.5°	5467.7	5495.6	5510.6	5564.3	5577.2	5594.4	5639.4	5699.5	5776.8	5845.5	5905.6
5°	5012.6	5055.5	5081.3	5128.5	5220.8	5229.4	5349.6	5487.0	5643.7	5789.7	5909.9
7.5°	4581.1	4628.3	4649.8	4735.7	4858.0	4877.3	5053.4	5270.2	5532.1	5753.2	5937.8
10°	4256.9	4280.6	4327.8	4392.2	4538.2	4551.0	4780.7	5070.6	5409.7	5736.0	5985.1
12.5°	4080.9	4093.8	4104.5	4173.2	4317.1	4336.4	4576.8	4905.3	5313.1	5748.9	6062.3
15°	4106.7	4111.0	4063.7	4076.6	4192.5	4220.5	4458.7	4795.8	5253.0	5781.1	6178.3
17.5°	4323.5	4308.5	4192.5	4132.4	4214.0	4226.9	4435.1	4752.8	5225.1	5841.2	6298.5
20°	4664.8	4643.4	4443.7	4310.6	4357.8	4368.6	4512.4	4785.0	5253.0	5940.0	6485.2
22.5°	5089.9	5081.3	4778.6	4617.6	4615.4	4615.4	4690.6	4901.0	5336.7	6075.2	6680.6
25°	5684.5	5639.4	5244.4	5036.2	4978.2	4973.9	4965.4	5092.0	5444.1	6219.0	6912.4
27.5°	6294.2	6216.9	5864.8	5545.0	5420.5	5405.4	5349.6	5362.5	5581.5	6382.2	7176.5
30°	6841.6	6792.2	6461.6	6107.4	5959.3	5924.9	5770.4	5699.5	5811.2	6676.3	7597.2
32.5°	7260.2	7230.2	6972.5	6650.5	6431.6	6425.1	6199.7	6141.8	6169.7	7032.7	8078.1
35°	7599.4	7610.1	7479.2	7200.1	6948.9	6912.4	6762.2	6689.2	6607.6	7547.9	8683.5
37.5°	8063.1	8086.7	8078.1	7837.7	7530.7	7539.3	7504.9	7384.7	7167.9	8123.2	9355.4
40°	8574.0	8591.2	8589.0	8496.7	8335.7	8344.3	8331.4	8194.0	7869.9	8855.2	10102.5
42.5°	9280.3	9198.7	8986.2	9078.5	9172.9	9213.7	9301.7	9170.8	8726.4	9636.6	10804.4
45°	10070.3	9915.7	9434.8	9477.8	9827.7	9905.0	10390.1	10209.8	9655.9	10534.0	11630.9
47.5°	10568.3	10415.9	10010.2	10001.6	10465.3	10540.4	11399.1	11332.5	10501.8	11502.1	12639.9
50°	11012.7	10991.2	10534.0	10643.4	11096.4	11208.0	12498.2	12435.9	11345.4	12644.2	13739.0
52.5°	11671.7	11497.8	11132.9	11358.3	11957.2	12103.2	13588.7	13406.3	12120.4	13653.1	14805.9
55°	11968.0	11927.2	11905.7	12101.1	12923.3	13028.4	14649.2	14230.6	12781.6	14507.5	15617.4
57.5°	12760.1	12685.0	12897.5	13030.6	14061.0	14222.0	15756.9	15091.4	13361.2	15185.9	16012.4
60°	13786.2	13745.4	13940.8	14181.2	15331.9	15576.6	17019.2	15825.6	13827.0	15527.2	15795.6
62.5°	15319.0	15314.7	15278.2	15793.4	17133.0	17358.4	18468.2	16540.5	13900.0	15271.8	14675.0
65°	17517.2	17439.9	17122.2	17684.7	19374.1	19638.2	19977.4	16939.8	13459.9	13960.1	12356.5
67.5°	19816.4	19812.1	19554.5	20284.4	22592.1	22864.7	21864.3	16851.7	12238.4	11308.9	8775.8
70°	21722.7	21630.3	21958.8	23903.7	26703.0	27018.6	23515.2	15814.9	9748.3	7468.4	5214.4
72.5°	22179.9	22184.2	22866.9	26694.5	30650.9	30700.2	24109.8	12818.1	6523.9	4119.6	2608.3
74°	20771.7	20808.2	21866.5	26834.0	31387.2	31163.9	22589.9	10074.6	4411.5	2689.8	1880.5
75°	18959.8	18730.1	20260.7	25904.5	30623.0	30382.5	20810.3	8084.5	3366.1	2148.9	1646.5
77.5°	10136.8	10370.8	12732.2	19331.2	24878.3	24601.4	14110.4	3877.0	1818.3	1496.3	1185.0
80°	3608.6	3980.0	5594.4	10115.3	15950.1	16036.0	6734.3	1777.5	1279.4	1103.4	837.2
82.5°	1472.6	1513.4	2402.2	4488.8	8099.6	8176.9	2749.9	1056.2	914.5	759.9	500.2
85°	575.3	592.5	1062.6	2017.9	3456.2	3681.6	951.0	558.1	562.4	435.8	255.5
87.5°	193.2	219.0	435.8	671.9	1174.3	1150.6	276.9	165.3	201.8	188.9	79.4
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°	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4	5916.4
2.5°	5935.7	5976.5	6004.4	6034.4	6062.3	6070.9	6064.5	6083.8	6085.9	6088.1	6090.2
5°	5970.0	6025.8	6079.5	6109.6	6122.4	6111.7	6075.2	6055.9	6038.7	6025.8	6030.1
7.5°	6017.3	6096.7	6146.1	6158.9	6124.6	6075.2	5985.1	5914.2	5869.1	5839.1	5836.9
10°	6090.2	6167.5	6208.3	6171.8	6077.4	5957.1	5815.5	5682.4	5581.5	5551.4	5549.3
12.5°	6182.6	6270.6	6268.4	6161.1	5995.8	5781.1	5551.4	5396.9	5259.5	5190.8	5218.7
15°	6302.8	6369.3	6307.1	6113.9	5852.0	5557.9	5274.5	5064.1	4909.5	4836.6	4840.9
17.5°	6442.3	6500.3	6335.0	6030.1	5650.2	5272.3	4943.9	4744.2	4621.9	4568.2	4563.9
20°	6616.2	6633.4	6335.0	5884.2	5390.4	4939.6	4626.2	4486.6	4417.9	4390.0	4398.6
22.5°	6803.0	6768.6	6300.6	5678.1	5049.1	4591.8	4381.5	4319.2	4284.9	4280.6	4284.9
25°	7013.3	6916.7	6229.8	5399.0	4692.7	4291.3	4168.9	4179.7	4186.1	4186.1	4201.1
27.5°	7270.9	7077.7	6111.7	5046.9	4276.3	4012.2	3977.9	4053.0	4087.4	4093.8	4104.5
30°	7610.1	7253.8	5916.4	4606.9	3922.1	3761.1	3821.2	3922.1	3960.7	3984.3	3980.0
32.5°	8013.7	7447.0	5652.3	4166.8	3636.5	3585.0	3658.0	3761.1	3804.0	3816.9	3799.7
35°	8488.1	7665.9	5304.5	3754.6	3387.5	3417.6	3503.4	3535.6	3574.3	3574.3	3582.9
37.5°	8999.0	7842.0	4879.5	3376.8	3194.3	3303.8	3366.1	3336.0	3318.8	3297.4	3308.1
40°	9518.6	7972.9	4327.8	3003.3	3001.1	3185.7	3202.9	3117.0	3048.3	3026.9	3016.1
42.5°	9971.5	8054.5	3829.7	2713.5	2818.6	3069.8	3082.7	2945.3	2835.8	2771.4	2749.9
45°	10506.0	8148.9	3342.4	2473.0	2649.1	2977.5	3009.7	2825.1	2664.1	2528.8	2494.5
47.5°	11238.1	8363.6	2958.2	2286.3	2526.7	2919.5	2964.6	2726.3	2513.8	2337.8	2309.9
50°	12064.6	8657.7	2659.8	2159.6	2432.2	2868.0	2923.8	2625.4	2374.3	2178.9	2157.5
52.5°	12822.4	8816.6	2402.2	2045.8	2339.9	2773.6	2870.2	2552.4	2236.9	2020.1	2000.7
55°	13236.7	8559.0	2148.9	1934.2	2213.3	2651.2	2795.0	2451.6	2103.8	1936.3	1908.4
57.5°	13292.5	8026.6	1919.2	1814.0	2080.2	2500.9	2655.5	2329.2	2017.9	1878.4	1854.8
60°	12861.0	7232.3	1741.0	1715.2	1944.9	2331.3	2498.8	2221.9	1929.9	1814.0	1790.4
62.5°	11787.6	6369.3	1616.5	1625.1	1807.5	2153.2	2382.9	2118.8	1846.2	1743.1	1721.7
65°	9941.5	5257.3	1496.3	1532.8	1685.2	2013.6	2277.7	2032.9	1762.5	1689.5	1670.1
67.5°	6906.0	3795.4	1397.5	1436.2	1569.3	1871.9	2155.3	1940.6	1668.0	1629.4	1599.3
70°	3823.3	2335.6	1281.6	1326.7	1449.0	1713.1	2017.9	1801.1	1530.6	1513.4	1470.5
72.5°	2009.3	1487.7	1150.6	1200.0	1285.9	1509.1	1807.5	1648.7	1395.4	1322.4	1266.6
74°	1569.3	1219.3	1062.6	1114.1	1172.1	1388.9	1683.0	1539.2	1298.8	1212.9	1170.0
75°	1367.5	1086.2	987.5	1054.0	1105.6	1307.4	1586.4	1461.9	1245.1	1163.5	1124.9
77.5°	966.0	813.6	807.2	886.6	914.5	1146.3	1429.7	1331.0	1109.9	1024.0	987.5
80°	678.4	609.7	639.7	689.1	727.7	1013.3	1326.7	1150.6	910.2	809.3	796.4
82.5°	442.2	399.3	457.3	502.3	515.2	747.1	1071.2	873.7	663.3	538.8	500.2
85°	203.9	199.6	261.9	255.5	253.3	364.9	635.4	510.9	382.1	285.5	268.3
87.5°	51.5	49.4	64.4	53.7	64.4	55.8	58.0	15.0	2.1	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)