

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: P454450

Luminaire Tested: **GALN-SA5C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454450
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-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 35130 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

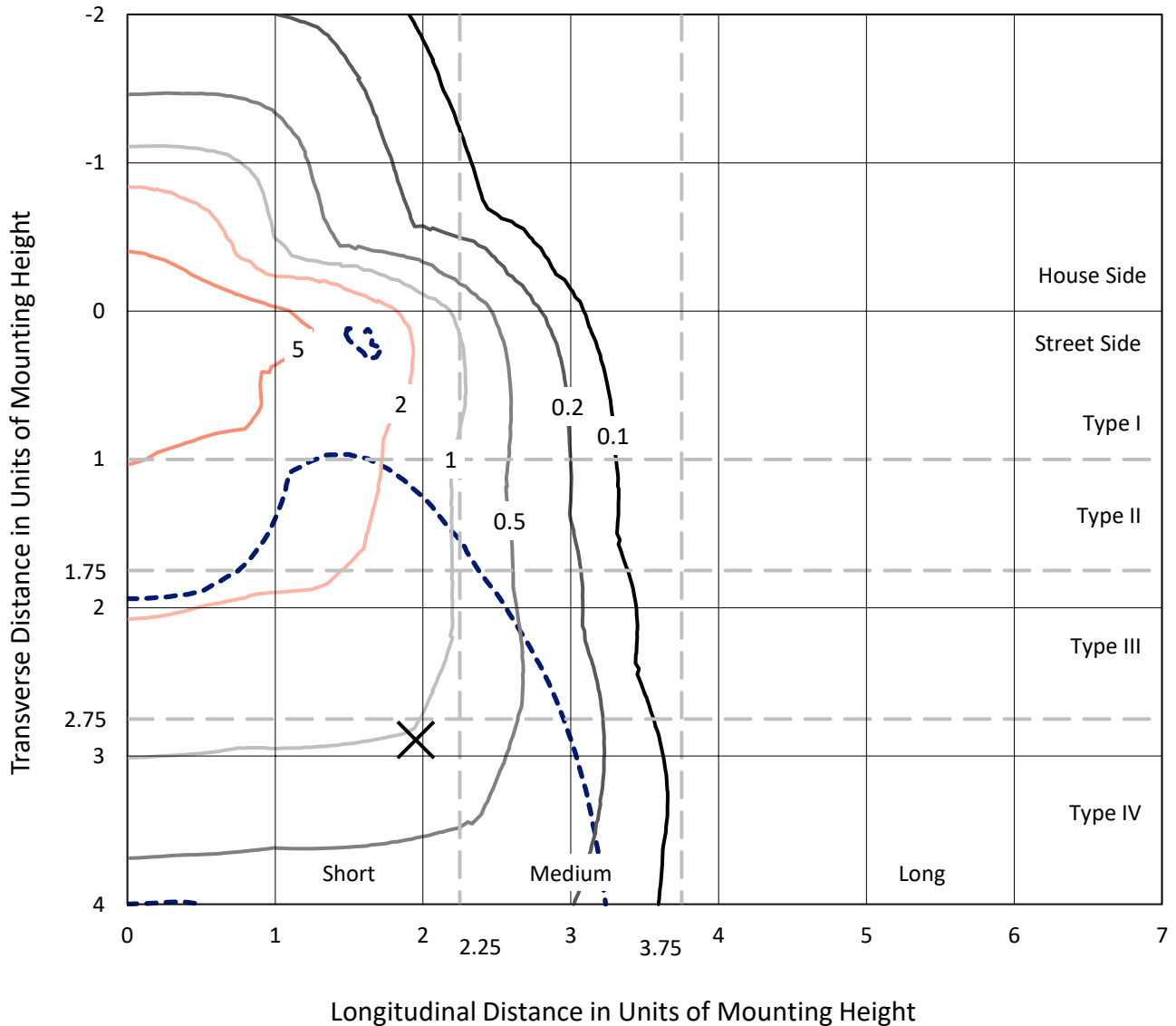
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

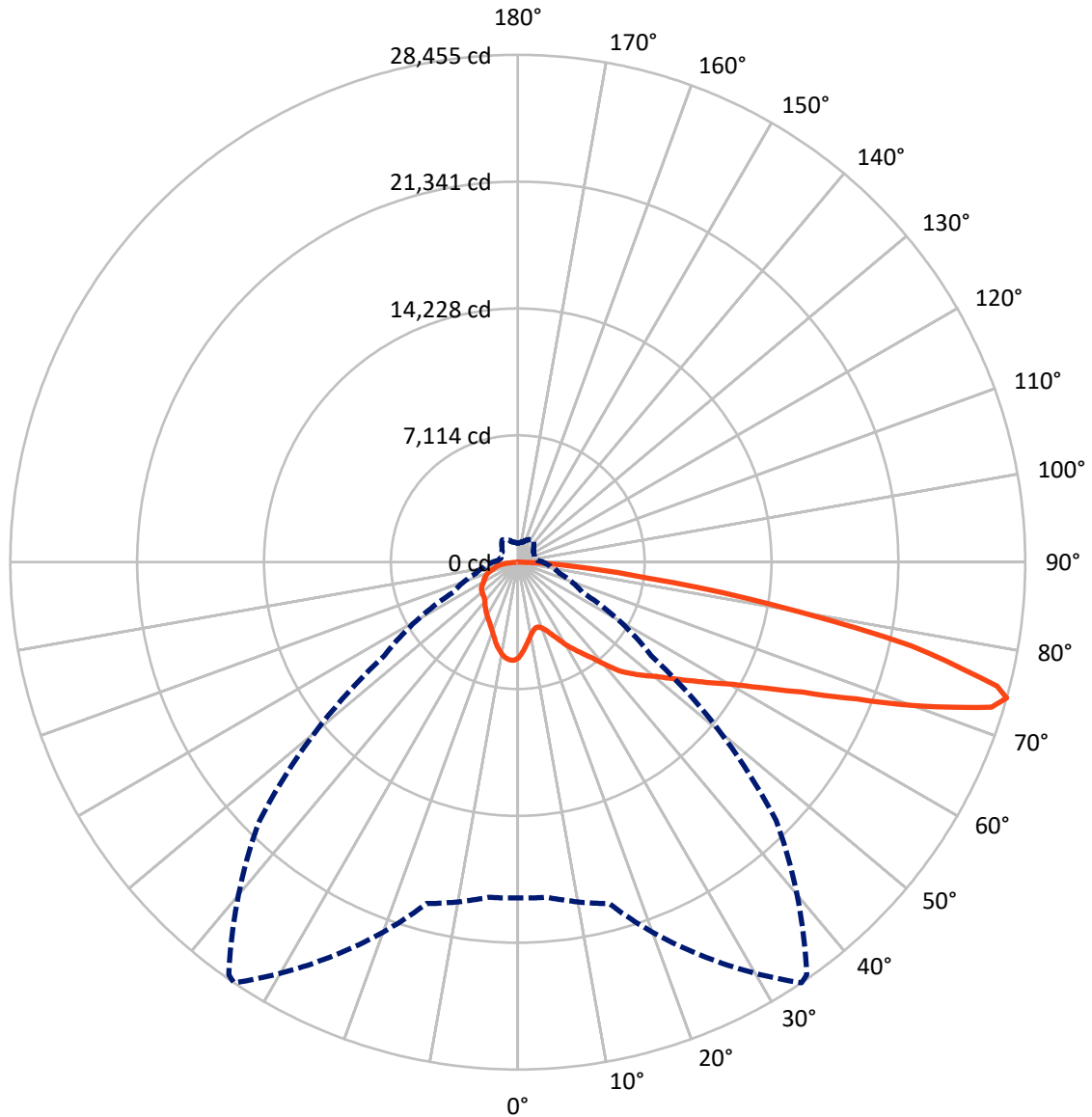
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	7475.9	0.0	7475.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27654.1	0.0	27654.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	35130.0	0.0	35130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	1.4
10°-20°	1335.3	3.8
20°-30°	2201.6	6.3
30°-40°	3297.8	9.4
40°-50°	4794.1	13.6
50°-60°	6696.2	19.1
60°-70°	8383.3	23.9
70°-80°	6932.3	19.7
80°-90°	1001.7	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°	35130.0	100.0
0°-180°	35130.0	100.0

Coefficient of Utilization



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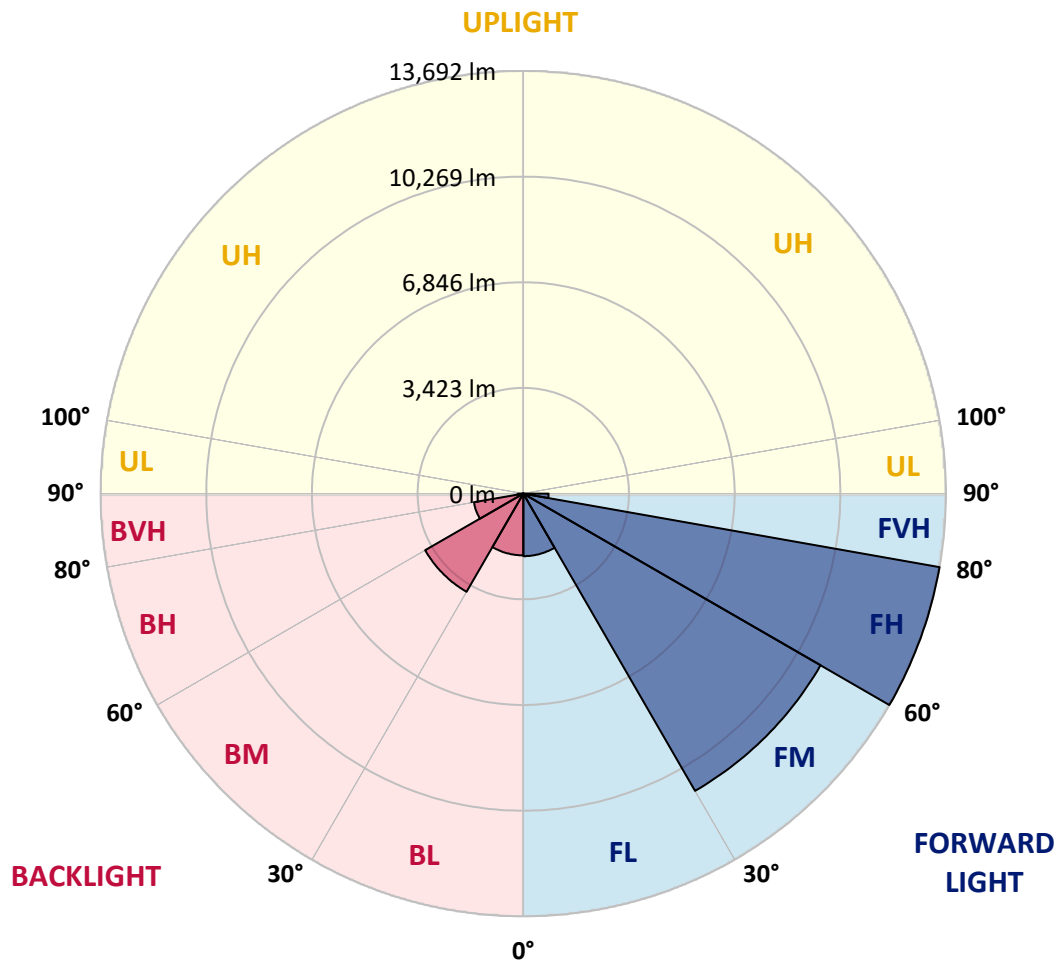
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.1	5.8			
FM (30°-60°)	11116.6	31.6			
FH (60°-80°)	13691.8	39.0			G5
FVH (80°-90°)	820.6	2.3			G5
BL (0°-30°)	1999.7	5.7	B3/2500		
BM (30°-60°)	3671.4	10.5	B3/5000		
BH (60°-80°)	1623.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	181.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7
2.5°	4956.9	4982.2	4995.8	5044.5	5056.2	5071.7	5112.6	5167.1	5237.2	5299.4	5353.9
5°	4544.3	4583.2	4606.6	4649.4	4733.1	4740.9	4849.9	4974.4	5116.5	5248.8	5357.8
7.5°	4153.1	4196.0	4215.4	4293.3	4404.2	4421.7	4581.3	4777.9	5015.3	5215.7	5383.1
10°	3859.3	3880.7	3923.5	3981.9	4114.2	4125.9	4334.1	4596.9	4904.4	5200.2	5425.9
12.5°	3699.7	3711.4	3721.1	3783.4	3913.8	3931.3	4149.2	4447.0	4816.8	5211.9	5496.0
15°	3723.0	3726.9	3684.1	3695.8	3800.9	3826.2	4042.2	4347.8	4762.3	5241.0	5601.1
17.5°	3919.6	3906.0	3800.9	3746.4	3820.3	3832.0	4020.8	4308.8	4737.0	5295.5	5710.1
20°	4229.0	4209.6	4028.6	3907.9	3950.7	3960.5	4090.9	4338.0	4762.3	5385.1	5879.4
22.5°	4614.4	4606.6	4332.2	4186.2	4184.3	4184.3	4252.4	4443.1	4838.2	5507.7	6056.5
25°	5153.5	5112.6	4754.5	4565.7	4513.2	4509.3	4501.5	4616.3	4935.5	5638.1	6266.7
27.5°	5706.2	5636.1	5316.9	5027.0	4914.1	4900.5	4849.9	4861.5	5060.1	5786.0	6506.1
30°	6202.5	6157.7	5858.0	5536.9	5402.6	5371.4	5231.3	5167.1	5268.3	6052.6	6887.5
32.5°	6582.0	6554.7	6321.2	6029.2	5830.7	5824.9	5620.6	5568.0	5593.3	6375.7	7323.5
35°	6889.5	6899.2	6780.5	6527.5	6299.8	6266.7	6130.4	6064.3	5990.3	6842.7	7872.3
37.5°	7309.8	7331.2	7323.5	7105.5	6827.2	6835.0	6803.8	6694.8	6498.3	7364.3	8481.4
40°	7773.0	7788.6	7786.6	7703.0	7557.0	7564.8	7553.1	7428.5	7134.7	8028.0	9158.7
42.5°	8413.3	8339.4	8146.7	8230.4	8316.0	8353.0	8432.8	8314.1	7911.2	8736.4	9795.1
45°	9129.5	8989.4	8553.4	8592.4	8909.6	8979.6	9419.5	9256.0	8753.9	9549.9	10544.4
47.5°	9581.0	9442.8	9075.0	9067.2	9487.6	9555.7	10334.2	10273.9	9520.7	10427.6	11459.1
50°	9983.9	9964.4	9549.9	9649.1	10059.8	10161.0	11330.6	11274.2	10285.5	11463.0	12455.5
52.5°	10581.3	10423.7	10092.9	10297.2	10840.2	10972.5	12319.3	12153.9	10988.1	12377.7	13422.8
55°	10849.9	10812.9	10793.5	10970.6	11716.0	11811.3	13280.7	12901.2	11587.5	13152.2	14158.4
57.5°	11568.1	11499.9	11692.6	11813.3	12747.4	12893.4	14284.9	13681.6	12113.0	13767.2	14516.5
60°	12498.3	12461.4	12638.5	12856.4	13899.6	14121.4	15429.3	14347.2	12535.3	14076.7	14320.0
62.5°	13887.9	13884.0	13850.9	14318.0	15532.4	15736.8	16742.9	14995.3	12601.5	13845.1	13304.0
65°	15880.8	15810.7	15522.7	16032.6	17564.2	17803.6	18111.1	15357.3	12202.5	12656.0	11202.2
67.5°	17965.1	17961.2	17727.7	18389.4	20481.5	20728.7	19821.8	15277.5	11095.1	10252.4	7956.0
70°	19693.3	19609.7	19907.4	21670.7	24208.5	24494.5	21318.4	14337.5	8837.6	6770.7	4727.3
72.5°	20107.9	20111.8	20730.6	24200.7	27787.5	27832.2	21857.5	11620.6	5914.4	3734.7	2364.6
74°	18831.2	18864.3	19823.7	24327.2	28455.0	28252.6	20479.6	9133.4	3999.4	2438.6	1704.8
75°	17188.6	16980.4	18368.0	23484.5	27762.2	27544.2	18866.2	7329.3	3051.6	1948.1	1492.7
77.5°	9189.8	9402.0	11542.8	17525.3	22554.2	22303.2	12792.2	3514.8	1648.4	1356.5	1074.3
80°	3271.5	3608.2	5071.7	9170.4	14460.1	14537.9	6105.1	1611.4	1159.9	1000.3	759.0
82.5°	1335.1	1372.1	2177.8	4069.5	7342.9	7413.0	2493.0	957.5	829.1	688.9	453.5
85°	521.6	537.1	963.4	1829.4	3133.3	3337.7	862.2	506.0	509.9	395.1	231.6
87.5°	175.2	198.5	395.1	609.2	1064.6	1043.1	251.1	149.9	182.9	171.3	72.0
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°	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7	5363.7
2.5°	5381.2	5418.1	5443.4	5470.7	5496.0	5503.8	5497.9	5515.5	5517.4	5519.4	5521.3
5°	5412.3	5462.9	5511.6	5538.8	5550.5	5540.8	5507.7	5490.2	5474.6	5462.9	5466.8
7.5°	5455.1	5527.1	5571.9	5583.6	5552.4	5507.7	5425.9	5361.7	5320.8	5293.6	5291.6
10°	5521.3	5591.4	5628.3	5595.3	5509.6	5400.6	5272.2	5151.5	5060.1	5032.8	5030.9
12.5°	5605.0	5684.8	5682.8	5585.5	5435.7	5241.0	5032.8	4892.7	4768.1	4705.8	4731.1
15°	5714.0	5774.3	5717.9	5542.7	5305.3	5038.6	4781.8	4591.0	4450.9	4384.7	4388.6
17.5°	5840.5	5893.0	5743.2	5466.8	5122.3	4779.8	4482.0	4301.0	4190.1	4141.5	4137.6
20°	5998.1	6013.7	5743.2	5334.5	4886.8	4478.1	4194.0	4067.5	4005.2	3979.9	3987.7
22.5°	6167.4	6136.3	5712.0	5147.6	4577.4	4162.9	3972.1	3915.7	3884.6	3880.7	3884.6
25°	6358.2	6270.6	5647.8	4894.6	4254.3	3890.4	3779.5	3789.2	3795.0	3795.0	3808.7
27.5°	6591.7	6416.5	5540.8	4575.5	3876.8	3637.4	3606.3	3674.4	3705.5	3711.4	3721.1
30°	6899.2	6576.1	5363.7	4176.5	3555.7	3409.7	3464.2	3555.7	3590.7	3612.1	3608.2
32.5°	7265.1	6751.3	5124.3	3777.5	3296.8	3250.1	3316.3	3409.7	3448.6	3460.3	3444.7
35°	7695.2	6949.8	4809.0	3403.9	3071.1	3098.3	3176.2	3205.3	3240.4	3240.4	3248.2
37.5°	8158.4	7109.4	4423.7	3061.3	2895.9	2995.2	3051.6	3024.4	3008.8	2989.3	2999.1
40°	8629.3	7228.1	3923.5	2722.7	2720.8	2888.1	2903.7	2825.8	2763.6	2744.1	2734.4
42.5°	9040.0	7302.0	3472.0	2460.0	2555.3	2783.0	2794.7	2670.2	2570.9	2512.5	2493.0
45°	9524.6	7387.7	3030.2	2242.0	2401.6	2699.3	2728.5	2561.2	2415.2	2292.6	2261.5
47.5°	10188.2	7582.3	2681.8	2072.7	2290.6	2646.8	2687.7	2471.6	2279.0	2119.4	2094.1
50°	10937.5	7848.9	2411.3	1957.9	2205.0	2600.1	2650.7	2380.2	2152.5	1975.4	1955.9
52.5°	11624.5	7992.9	2177.8	1854.7	2121.3	2514.5	2602.0	2314.0	2027.9	1831.3	1813.8
55°	12000.1	7759.4	1948.1	1753.5	2006.5	2403.5	2533.9	2222.5	1907.3	1755.4	1730.1
57.5°	12050.7	7276.7	1739.9	1644.5	1885.8	2267.3	2407.4	2111.6	1829.4	1702.9	1681.5
60°	11659.5	6556.7	1578.3	1555.0	1763.2	2113.5	2265.3	2014.3	1749.6	1644.5	1623.1
62.5°	10686.4	5774.3	1465.5	1473.3	1638.7	1952.0	2160.3	1920.9	1673.7	1580.3	1560.8
65°	9012.7	4766.2	1356.5	1389.6	1527.7	1825.5	2064.9	1843.0	1597.8	1531.6	1514.1
67.5°	6260.8	3440.8	1267.0	1302.0	1422.7	1697.1	1954.0	1759.3	1512.2	1477.1	1449.9
70°	3466.1	2117.4	1161.9	1202.7	1313.7	1553.0	1829.4	1632.8	1387.6	1372.1	1333.1
72.5°	1821.6	1348.7	1043.1	1087.9	1165.8	1368.2	1638.7	1494.7	1265.0	1198.8	1148.2
74°	1422.7	1105.4	963.4	1010.1	1062.6	1259.2	1525.8	1395.4	1177.4	1099.6	1060.7
75°	1239.7	984.8	895.2	955.6	1002.3	1185.2	1438.2	1325.3	1128.8	1054.8	1019.8
77.5°	875.8	737.6	731.8	803.8	829.1	1039.3	1296.2	1206.6	1006.2	928.3	895.2
80°	615.0	552.7	580.0	624.7	659.8	918.6	1202.7	1043.1	825.2	733.7	722.0
82.5°	400.9	362.0	414.5	455.4	467.1	677.3	971.1	792.1	601.4	488.5	453.5
85°	184.9	181.0	237.4	231.6	229.6	330.8	576.1	463.2	346.4	258.8	243.3
87.5°	46.7	44.8	58.4	48.7	58.4	50.6	52.5	13.6	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)