

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: P647582

Luminaire Tested: **GALN-SA7D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42220.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

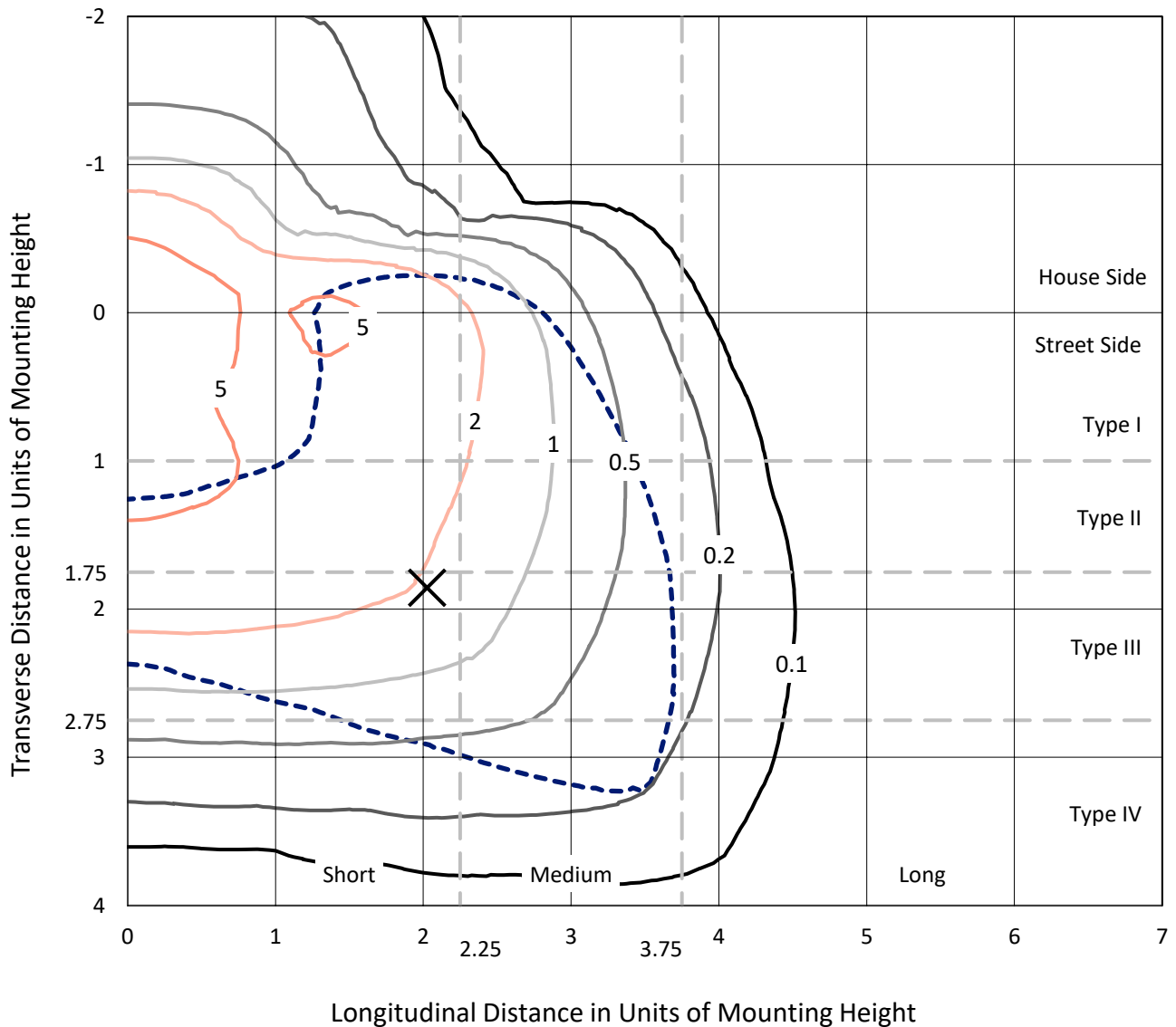
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

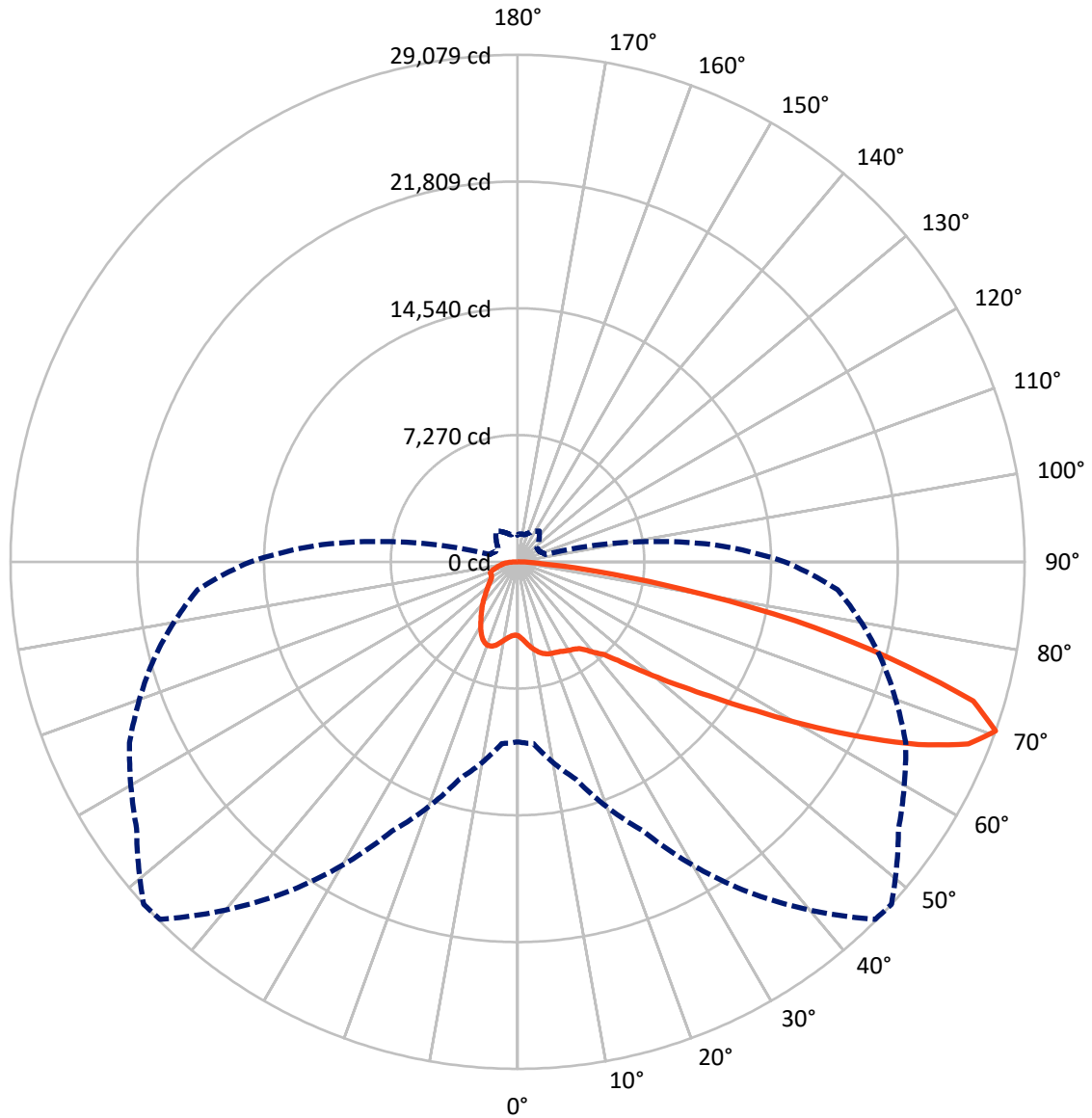
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9559.4	0.0	9559.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32660.7	0.0	32660.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	42220.1	0.0	42220.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	1.0
10°-20°	1460.6	3.5
20°-30°	2428.9	5.8
30°-40°	3442.6	8.2
40°-50°	5082.0	12.0
50°-60°	8802.2	20.8
60°-70°	12433.4	29.4
70°-80°	7147.4	16.9
80°-90°	986.2	2.3
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°	42220.1	100.0
0°-180°	42220.1	100.0

Coefficient of Utilization



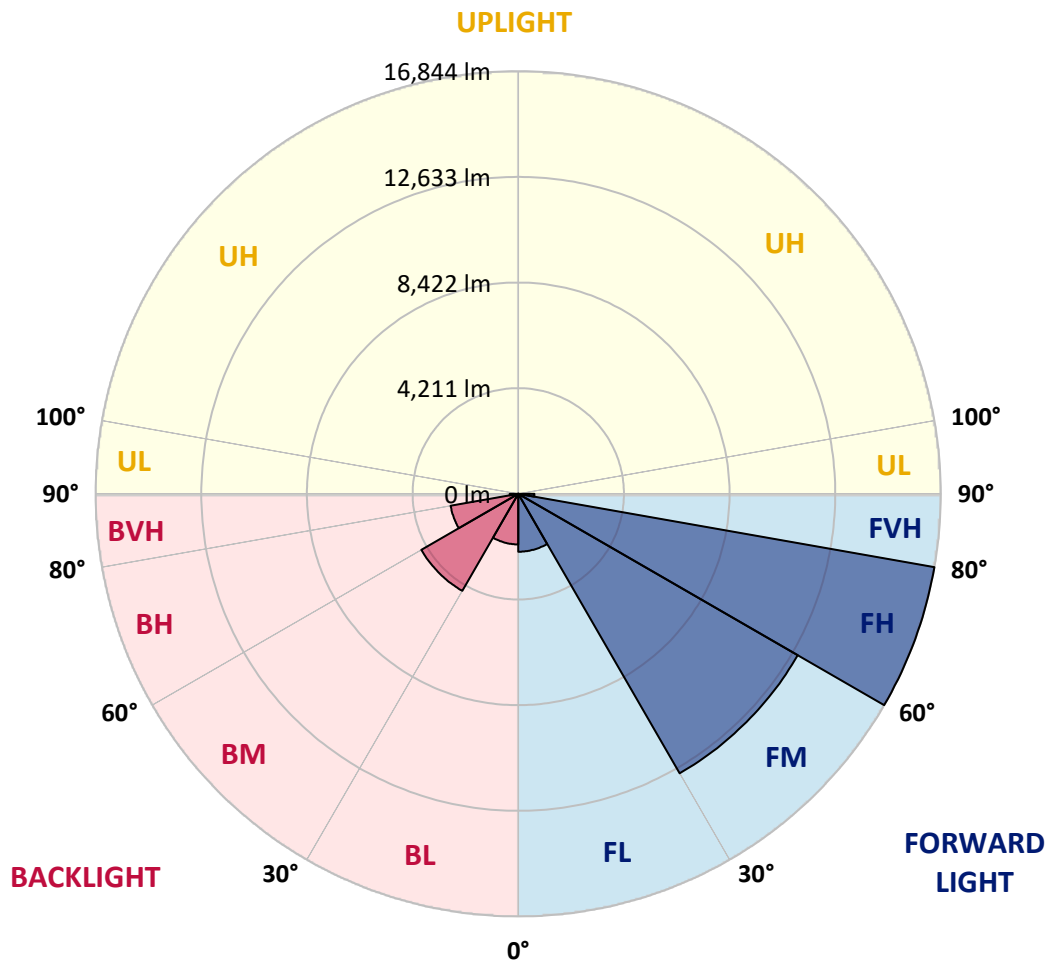
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.8	5.5			
FM (30°-60°)	12863.7	30.5			
FH (60°-80°)	16844.1	39.9			G5
FVH (80°-90°)	644.2	1.5			G4/750
BL (0°-30°)	2017.6	4.8	B3/2500		
BM (30°-60°)	4463.1	10.6	B3/5000		
BH (60°-80°)	2736.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	342.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4
2.5°	4511.8	4496.0	4493.7	4459.8	4441.7	4407.8	4394.3	4362.6	4324.3	4285.8	4249.7
5°	4866.5	4866.5	4850.7	4803.2	4728.7	4651.8	4618.0	4557.0	4448.5	4360.4	4285.8
7.5°	5230.2	5234.7	5203.1	5133.0	5026.9	4902.6	4871.0	4780.6	4627.0	4498.2	4387.5
10°	5544.3	5544.3	5501.4	5406.5	5273.1	5137.6	5105.9	5004.3	4832.6	4672.2	4527.6
12.5°	5783.7	5783.7	5727.3	5603.0	5458.4	5336.4	5300.3	5203.1	5042.7	4864.2	4681.2
15°	5939.6	5928.3	5865.1	5725.0	5584.9	5478.7	5453.9	5372.6	5225.7	5044.9	4839.3
17.5°	5946.4	5941.9	5880.9	5763.4	5641.4	5569.1	5553.3	5499.1	5383.8	5212.1	4995.2
20°	5815.3	5824.4	5783.7	5700.2	5641.4	5609.8	5603.0	5584.9	5503.6	5343.2	5126.3
22.5°	5675.3	5691.1	5652.7	5607.5	5603.0	5634.6	5639.2	5643.6	5591.7	5435.8	5237.0
25°	5641.4	5652.7	5614.3	5573.6	5598.4	5682.1	5700.2	5718.2	5677.5	5546.5	5368.0
27.5°	5813.1	5804.1	5729.5	5641.4	5657.3	5770.2	5795.1	5815.3	5795.1	5682.1	5530.7
30°	6298.8	6269.5	6120.4	5862.8	5781.5	5860.5	5885.4	5941.9	5941.9	5858.3	5706.9
32.5°	7112.2	7055.7	6782.3	6276.3	5993.9	5946.4	5971.2	6063.9	6111.3	6045.8	5880.9
35°	8099.5	8040.8	7649.9	6969.9	6382.5	6118.1	6111.3	6215.2	6341.8	6194.9	5980.3
37.5°	9091.3	9030.3	8560.4	7796.7	6949.5	6479.6	6438.9	6475.1	6529.3	6260.5	6118.1
40°	10083.2	10010.8	9599.7	8720.8	7643.1	6958.5	6852.3	6689.7	6667.1	6475.1	6384.7
42.5°	11065.9	11000.4	10792.6	9757.8	8474.6	7426.2	7263.6	6983.4	7069.2	6954.1	6875.0
45°	12057.7	12062.3	11840.8	10921.3	9477.7	8289.3	8070.1	7631.8	7835.2	7792.3	7837.4
47.5°	12936.6	12925.3	12846.2	12050.9	10722.5	9400.9	9118.4	8610.1	8958.0	9116.2	9461.9
50°	13788.3	13781.6	13786.0	13332.0	12168.4	10722.5	10410.7	9877.5	10661.5	11210.5	11829.6
52.5°	15008.3	15046.8	14773.4	14653.6	13926.1	12283.6	11940.3	11389.0	12674.5	13539.8	14748.5
55°	16232.8	16201.2	15986.6	16110.9	15765.2	14131.7	13772.5	13334.3	14915.7	15862.3	17678.8
57.5°	16953.6	16964.9	17184.0	17791.8	18035.8	16436.2	16110.9	15772.0	17434.8	18105.8	20286.0
60°	17602.0	17654.0	18284.3	19432.0	20094.0	19267.0	18977.9	18648.0	19746.0	20012.6	22549.8
62.5°	17805.3	17965.7	19066.0	20783.0	22100.2	22461.7	22102.4	21375.0	21946.6	21842.6	24083.8
65°	16790.9	17010.0	18982.4	21289.1	23891.8	25493.6	25265.5	23914.4	23821.8	23196.0	24334.6
67.5°	14120.5	14339.6	16872.2	20227.2	24632.9	28118.9	27890.7	25767.0	24960.5	23322.4	22436.9
70°	10331.7	10469.5	12891.4	17030.4	23144.0	29000.0	29079.1	26670.7	24553.8	21603.1	18422.1
72.5°	5953.1	6258.2	7954.9	11980.9	18907.9	26772.3	27321.4	24791.0	21982.7	18022.2	12880.1
75°	2559.8	2566.5	3678.1	6608.4	12805.6	21519.6	22050.5	20550.3	17263.1	12462.1	6877.2
77.5°	1217.7	1240.4	1617.6	2950.6	7049.0	14868.2	16300.7	14518.1	11041.1	5987.1	2598.2
80°	790.8	806.6	989.6	1464.0	3456.7	8621.4	9620.0	8375.1	4871.0	2139.5	1120.6
82.5°	479.0	483.5	661.9	894.7	1902.3	3904.0	4602.2	3635.2	2078.6	1281.0	659.7
85°	291.4	293.7	402.1	553.5	1154.5	1348.8	1385.0	1373.6	1220.0	838.2	352.4
87.5°	140.1	144.6	207.9	262.1	454.1	418.0	395.3	458.6	576.1	451.9	151.4
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°	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4	4238.4
2.5°	4233.8	4227.1	4211.3	4204.5	4200.0	4202.3	4200.0	4200.0	4202.3	4202.3	4202.3
5°	4254.2	4242.9	4218.1	4218.1	4231.6	4263.3	4292.6	4315.2	4340.1	4337.8	4337.8
7.5°	4342.3	4322.0	4292.6	4301.6	4335.5	4385.3	4437.2	4486.9	4536.6	4541.2	4538.9
10°	4471.1	4450.7	4419.2	4430.4	4484.6	4559.2	4624.7	4697.1	4751.2	4767.1	4762.5
12.5°	4618.0	4577.3	4550.2	4581.8	4667.6	4767.1	4830.3	4884.5	4923.0	4945.6	4936.5
15°	4767.1	4728.7	4697.1	4762.5	4866.5	4959.1	4990.8	4999.8	5006.6	5029.1	5024.6
17.5°	4911.7	4859.7	4848.4	4934.2	5033.7	5074.3	5056.2	5017.9	4988.5	5006.6	5004.3
20°	5040.4	4999.8	4995.2	5081.1	5119.5	5081.1	5004.3	4936.5	4884.5	4889.1	4886.8
22.5°	5162.5	5130.8	5135.3	5171.5	5110.5	4979.4	4852.9	4760.2	4703.8	4715.1	4721.9
25°	5298.0	5266.4	5277.7	5218.9	5017.9	4789.7	4606.6	4527.6	4505.0	4527.6	4543.4
27.5°	5474.2	5453.9	5447.1	5221.2	4852.9	4509.5	4301.6	4272.3	4292.6	4342.3	4367.2
30°	5664.0	5664.0	5627.8	5182.8	4627.0	4172.8	3992.1	3996.7	4066.7	4136.7	4161.6
32.5°	5847.0	5885.4	5772.4	5078.9	4335.5	3845.3	3707.4	3712.0	3773.0	3858.9	3881.4
35°	5998.4	6109.0	5896.7	4889.1	3992.1	3569.6	3465.7	3404.7	3407.0	3472.5	3490.6
37.5°	6206.2	6411.8	5969.0	4606.6	3626.2	3334.7	3217.2	3111.0	3041.0	3013.8	3013.8
40°	6567.7	6870.4	5987.1	4188.7	3280.5	3111.0	2943.8	2817.3	2681.8	2559.8	2537.2
42.5°	7180.0	7561.8	5951.0	3707.4	2968.7	2864.8	2702.1	2546.2	2358.7	2187.0	2173.5
45°	8264.4	8460.9	5853.8	3208.2	2690.8	2627.5	2469.3	2299.9	2101.1	1947.5	1936.2
47.5°	10001.8	9723.9	5725.0	2765.3	2437.8	2419.7	2297.7	2101.1	1902.3	1796.1	1784.8
50°	12539.0	11712.0	5706.9	2444.5	2234.4	2243.5	2144.0	1963.3	1789.3	1701.2	1687.7
52.5°	15593.5	14113.7	5826.7	2218.6	2055.9	2089.8	2040.1	1872.9	1719.3	1644.8	1631.2
55°	18557.6	16273.6	5899.0	2042.4	1888.8	1952.0	1958.8	1818.8	1678.7	1604.1	1595.0
57.5°	20963.8	17900.2	5578.2	1881.9	1744.1	1841.3	1891.0	1787.1	1658.3	1601.9	1592.8
60°	22637.9	18668.4	4665.4	1739.7	1638.0	1753.2	1866.1	1789.3	1708.0	1714.8	1719.3
62.5°	23171.1	18327.2	3499.6	1633.4	1565.7	1723.9	1906.8	1881.9	1798.4	1850.3	1859.4
65°	22287.7	16917.4	2537.2	1549.9	1502.4	1744.1	2028.8	1949.7	1766.8	1805.1	1805.1
67.5°	19330.3	14574.5	1974.6	1473.1	1430.1	1782.6	2150.8	1942.9	1692.2	1737.4	1696.7
70°	15333.6	11273.8	1644.8	1387.2	1353.3	1726.0	2162.1	1872.9	1604.1	1613.1	1536.3
72.5°	10175.8	7412.7	1414.3	1305.9	1235.8	1552.1	2069.5	1782.6	1518.2	1466.2	1389.4
75°	4986.2	3696.2	1233.5	1204.2	1082.2	1351.1	1942.9	1696.7	1425.6	1344.3	1301.3
77.5°	1931.7	1572.4	1052.8	1075.5	942.1	1190.6	1775.8	1574.7	1303.6	1192.9	1159.0
80°	937.6	892.4	863.0	896.9	774.9	1014.4	1622.1	1468.5	1190.6	1068.6	1018.9
82.5°	582.9	551.2	661.9	698.1	596.4	926.3	1538.6	1378.2	1048.3	885.7	844.9
85°	296.0	316.3	442.8	476.7	427.0	736.5	1267.4	1034.7	756.8	628.0	632.6
87.5°	113.0	151.4	232.7	250.8	228.2	388.6	698.1	603.2	485.8	329.9	305.0
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)