

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: P652642

Luminaire Tested: **GALN-SA9B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652642
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-SA9B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43414.1 lumens
Efficiency: N/A
Efficacy: 119.3 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

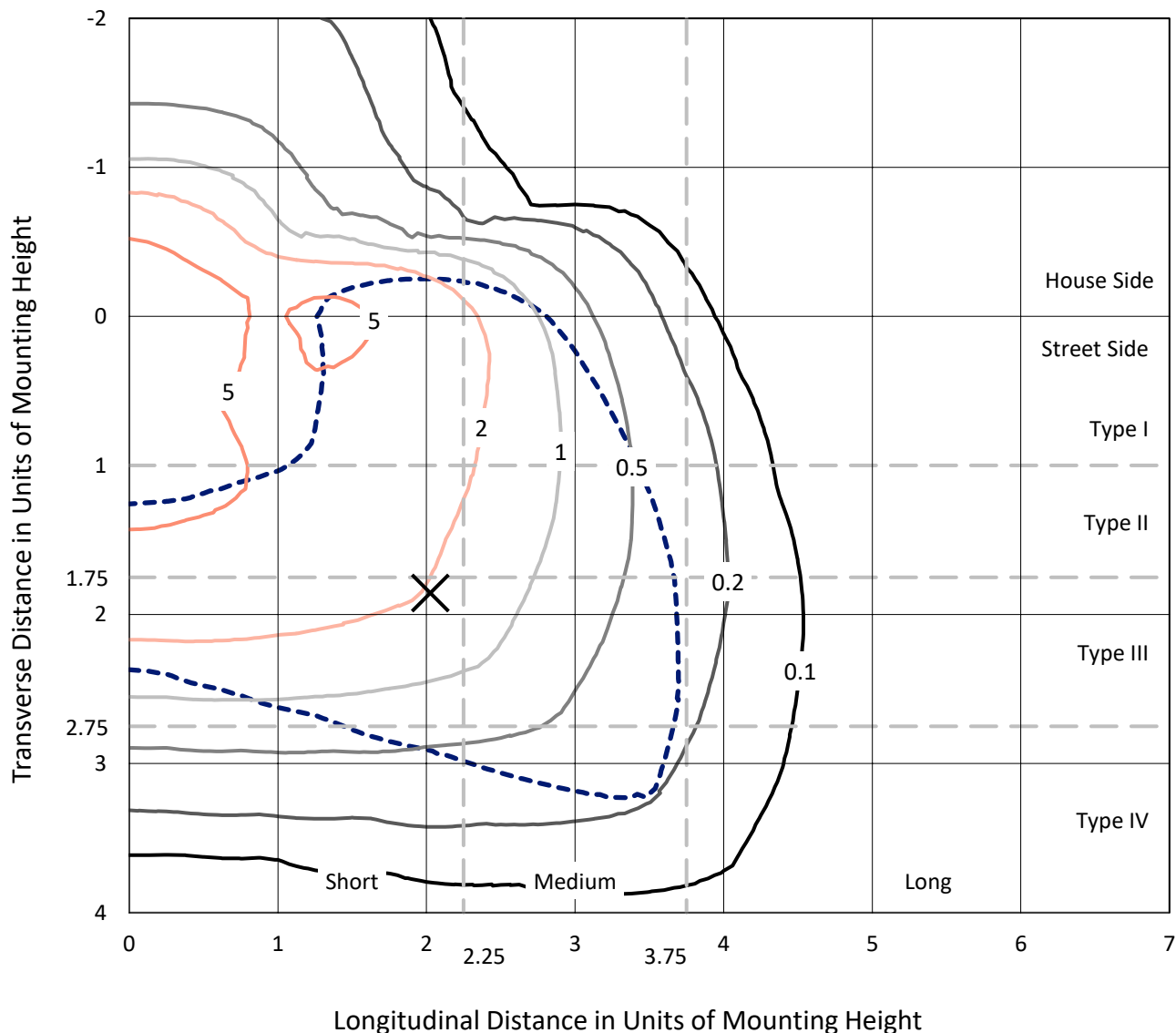
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

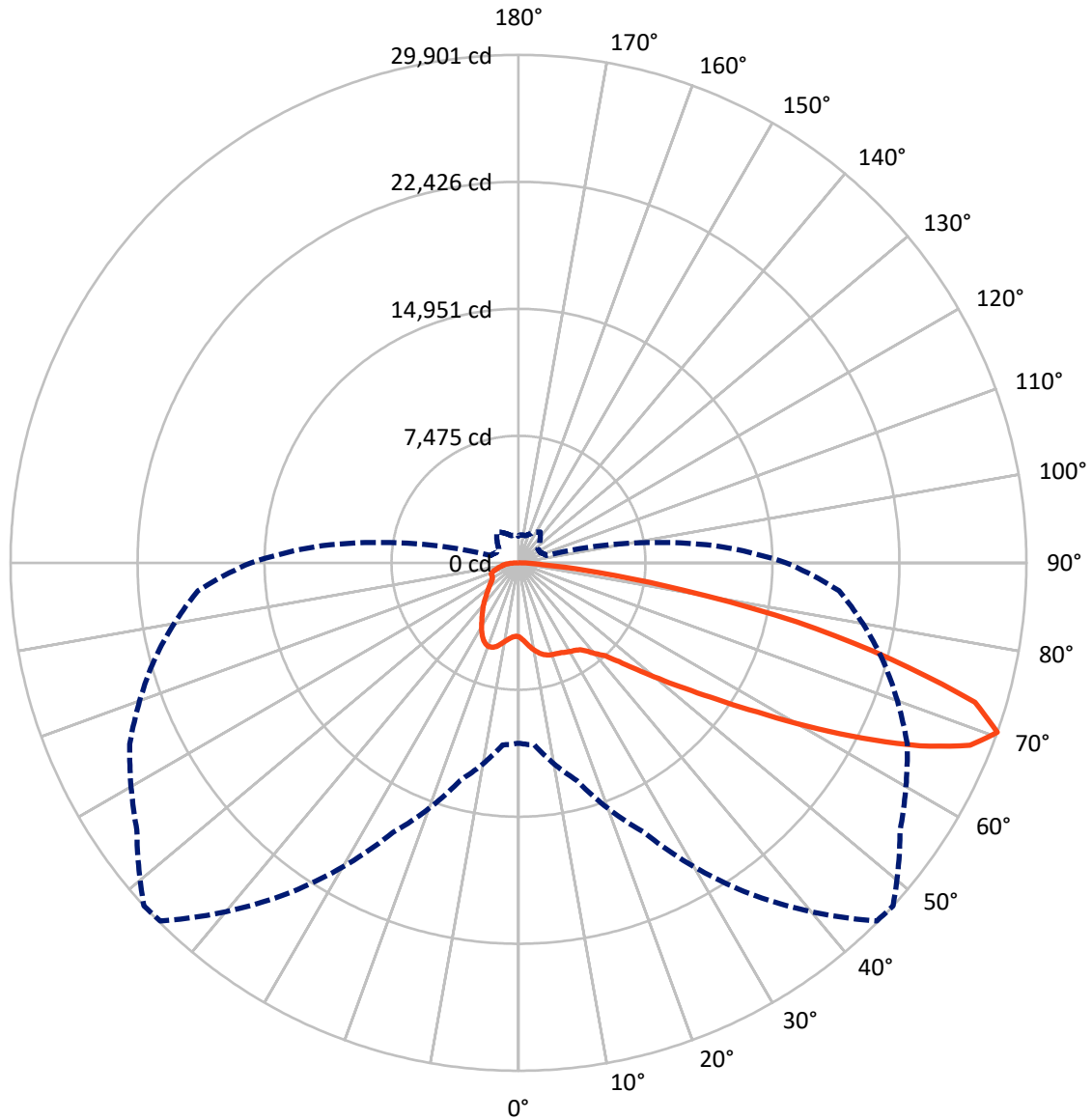
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	9829.8	0.0	9829.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33584.3	0.0	33584.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	43414.1	0.0	43414.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.0
10°-20°	1501.9	3.5
20°-30°	2497.6	5.8
30°-40°	3539.9	8.2
40°-50°	5225.7	12.0
50°-60°	9051.2	20.8
60°-70°	12785.0	29.4
70°-80°	7349.5	16.9
80°-90°	1014.1	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°	43414.1	100.0
0°-180°	43414.1	100.0

Coefficient of Utilization

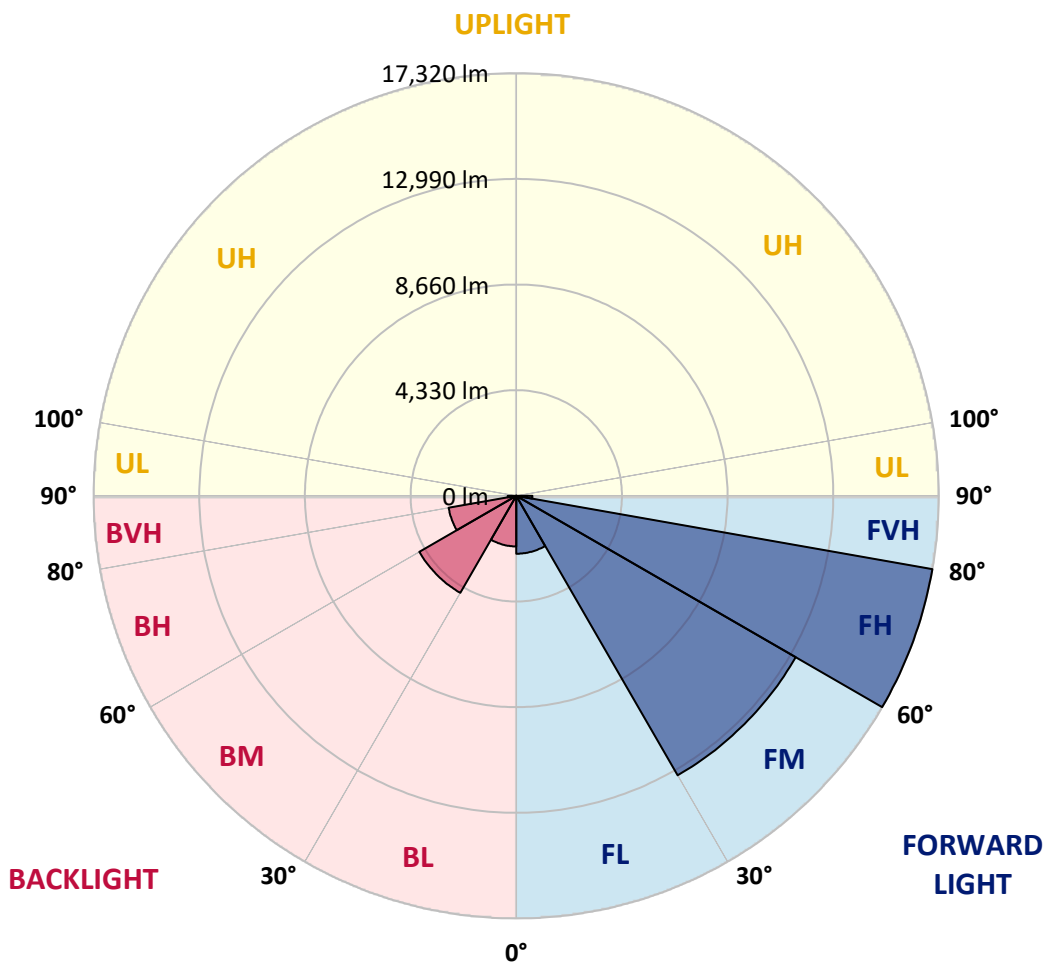


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.0	5.5			
FM (30°-60°)	13227.4	30.5			
FH (60°-80°)	17320.4	39.9			G5
FVH (80°-90°)	662.4	1.5			G4/750
BL (0°-30°)	2074.6	4.8	B3/2500		
BM (30°-60°)	4589.4	10.6	B3/5000		
BH (60°-80°)	2814.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	351.6	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°	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2
2.5°	4639.4	4623.1	4620.8	4585.9	4567.3	4532.5	4518.5	4486.1	4446.5	4407.0	4369.8
5°	5004.1	5004.1	4987.8	4939.0	4862.4	4783.4	4748.5	4685.8	4574.3	4483.7	4407.0
7.5°	5378.1	5382.7	5350.3	5278.2	5169.0	5041.3	5008.7	4915.8	4757.9	4625.4	4511.5
10°	5701.1	5701.1	5656.9	5559.3	5422.3	5282.9	5250.4	5145.8	4969.2	4804.3	4655.6
12.5°	5947.3	5947.3	5889.2	5761.4	5612.7	5487.3	5450.1	5350.3	5185.3	5001.8	4813.6
15°	6107.6	6096.0	6030.9	5886.9	5742.9	5633.7	5608.1	5524.4	5373.5	5187.6	4976.2
17.5°	6114.6	6109.9	6047.2	5926.4	5801.0	5726.6	5710.3	5654.5	5536.1	5359.5	5136.5
20°	5979.8	5989.1	5947.3	5861.3	5801.0	5768.4	5761.4	5742.9	5659.3	5494.3	5271.2
22.5°	5835.8	5852.0	5812.6	5766.1	5761.4	5794.0	5798.6	5803.2	5749.8	5589.5	5385.1
25°	5801.0	5812.6	5773.0	5731.2	5756.8	5842.8	5861.3	5879.9	5838.1	5703.3	5519.8
27.5°	5977.5	5968.2	5891.5	5801.0	5817.2	5933.3	5958.9	5979.8	5958.9	5842.8	5687.1
30°	6477.0	6446.8	6293.5	6028.6	5944.9	6026.3	6051.8	6109.9	6109.9	6024.0	5868.3
32.5°	7313.3	7255.2	6974.2	6453.7	6163.4	6114.6	6140.1	6235.3	6284.1	6216.8	6047.2
35°	8328.5	8268.1	7866.2	7166.9	6562.9	6291.1	6284.1	6391.0	6521.1	6370.2	6149.4
37.5°	9348.4	9285.6	8802.5	8017.3	7146.1	6662.8	6621.0	6658.2	6714.0	6437.5	6291.1
40°	10368.3	10293.9	9871.2	8967.4	7859.2	7155.3	7046.2	6878.9	6855.7	6658.2	6565.3
42.5°	11378.8	11311.4	11097.8	10033.7	8714.2	7636.2	7469.0	7180.9	7269.2	7150.7	7069.4
45°	12398.7	12403.4	12175.7	11230.2	9745.7	8523.7	8298.3	7847.6	8056.7	8012.6	8059.1
47.5°	13302.4	13290.8	13209.5	12391.7	11025.8	9666.7	9376.3	8853.5	9211.3	9374.0	9729.4
50°	14178.3	14171.3	14176.0	13709.0	12512.6	11025.8	10705.2	10156.8	10963.0	11527.5	12164.1
52.5°	15432.8	15472.3	15191.2	15068.0	14320.0	12631.1	12277.9	11711.1	13033.0	13922.8	15165.6
55°	16691.9	16659.4	16438.7	16566.4	16211.0	14531.4	14162.0	13711.3	15337.5	16310.9	18178.7
57.5°	17433.0	17444.6	17670.0	18294.9	18545.8	16901.0	16566.4	16218.0	17927.8	18617.8	20859.7
60°	18099.7	18153.2	18801.4	19981.5	20662.2	19811.9	19514.6	19175.4	20304.4	20578.6	23187.5
62.5°	18308.8	18473.8	19605.1	21370.7	22725.2	23096.9	22727.5	21979.5	22567.2	22460.3	24764.9
65°	17265.7	17491.1	19519.2	21891.1	24567.5	26214.6	25979.9	24590.7	24495.5	23851.9	25022.8
67.5°	14519.8	14745.1	17349.4	20799.3	25329.4	28914.1	28679.4	26495.7	25666.3	23982.0	23071.3
70°	10623.8	10765.6	13255.9	17512.0	23798.4	29820.1	29901.4	27424.9	25248.2	22214.1	18943.1
72.5°	6121.6	6435.2	8179.8	12319.7	19442.6	27529.5	28094.0	25492.1	22604.4	18531.9	13244.3
75°	2632.2	2639.1	3782.1	6795.3	13167.7	22128.1	22674.0	21131.5	17751.3	12814.6	7071.7
77.5°	1252.2	1275.4	1663.4	3034.1	7248.2	15288.7	16761.6	14928.7	11353.3	6156.4	2671.6
80°	813.1	829.4	1017.5	1505.4	3554.4	8865.1	9892.0	8611.9	5008.7	2200.1	1152.3
82.5°	492.5	497.1	680.7	920.0	1956.1	4014.4	4732.3	3738.0	2137.3	1317.3	678.4
85°	299.6	302.0	413.5	569.2	1187.2	1386.9	1424.1	1412.5	1254.5	861.9	362.4
87.5°	144.1	148.7	213.7	269.5	466.9	429.8	406.5	471.6	592.4	464.7	155.7
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°	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2	4358.2
2.5°	4353.6	4346.6	4330.4	4323.4	4318.8	4321.1	4318.8	4318.8	4321.1	4321.1	4321.1
5°	4374.5	4362.9	4337.4	4337.4	4351.2	4383.8	4414.0	4437.2	4462.8	4460.5	4460.5
7.5°	4465.1	4444.2	4414.0	4423.3	4458.1	4509.3	4562.7	4613.8	4664.9	4669.6	4667.2
10°	4597.6	4576.6	4544.1	4555.7	4611.5	4688.2	4755.5	4829.9	4885.6	4901.9	4897.2
12.5°	4748.5	4706.7	4678.8	4711.4	4799.7	4901.9	4966.9	5022.7	5062.1	5085.4	5076.1
15°	4901.9	4862.4	4829.9	4897.2	5004.1	5099.3	5131.9	5141.2	5148.1	5171.4	5166.7
17.5°	5050.5	4997.1	4985.5	5073.8	5176.0	5217.8	5199.2	5159.7	5129.5	5148.1	5145.8
20°	5183.0	5141.2	5136.5	5224.8	5264.3	5224.8	5145.8	5076.1	5022.7	5027.3	5025.0
22.5°	5308.4	5275.9	5280.6	5317.7	5255.0	5120.3	4990.2	4894.9	4836.8	4848.4	4855.4
25°	5447.8	5415.3	5426.9	5366.5	5159.7	4925.1	4736.9	4655.6	4632.4	4655.6	4671.8
27.5°	5629.1	5608.1	5601.1	5368.9	4990.2	4637.0	4423.3	4393.1	4414.0	4465.1	4490.7
30°	5824.2	5824.2	5787.0	5329.3	4757.9	4290.9	4105.0	4109.7	4181.7	4253.7	4279.3
32.5°	6012.3	6051.8	5935.7	5222.4	4458.1	3954.0	3812.3	3817.0	3879.7	3967.9	3991.2
35°	6168.0	6281.8	6063.4	5027.3	4105.0	3670.6	3563.7	3501.0	3503.4	3570.7	3589.3
37.5°	6381.8	6593.1	6137.8	4736.9	3728.7	3429.0	3308.2	3199.0	3127.0	3099.1	3099.1
40°	6753.4	7064.7	6156.4	4307.2	3373.3	3199.0	3027.1	2897.0	2757.6	2632.2	2609.0
42.5°	7383.0	7775.6	6119.2	3812.3	3052.7	2945.8	2778.5	2618.2	2425.4	2248.8	2234.9
45°	8498.1	8700.2	6019.3	3298.9	2766.9	2701.8	2539.2	2365.0	2160.5	2002.6	1991.0
47.5°	10284.7	9998.9	5886.9	2843.6	2506.7	2488.1	2362.6	2160.5	1956.1	1846.9	1835.3
50°	12893.5	12043.3	5868.3	2513.7	2297.6	2306.9	2204.7	2018.8	1839.9	1749.4	1735.4
52.5°	16034.5	14512.8	5991.5	2281.4	2114.1	2148.9	2097.8	1925.9	1768.0	1691.3	1677.3
55°	19082.5	16733.7	6065.8	2100.1	1942.2	2007.2	2014.2	1870.1	1726.1	1649.5	1640.1
57.5°	21556.6	18406.4	5735.9	1935.2	1793.5	1893.3	1944.5	1837.6	1705.2	1647.1	1637.8
60°	23278.1	19196.3	4797.3	1788.8	1684.3	1802.8	1918.9	1839.9	1756.3	1763.2	1768.0
62.5°	23826.4	18845.5	3598.6	1679.6	1609.9	1772.6	1960.7	1935.2	1849.3	1902.7	1911.9
65°	22918.0	17395.8	2609.0	1593.7	1544.9	1793.5	2086.2	2004.9	1816.7	1856.2	1856.2
67.5°	19877.0	14986.7	2030.4	1514.7	1470.6	1833.0	2211.7	1997.9	1740.0	1786.5	1744.7
70°	15767.3	11592.6	1691.3	1426.4	1391.6	1774.9	2223.3	1925.9	1649.5	1658.7	1579.7
72.5°	10463.6	7622.3	1454.3	1342.8	1270.8	1596.0	2128.0	1833.0	1561.1	1507.7	1428.8
75°	5127.2	3800.7	1268.5	1238.2	1112.8	1389.2	1997.9	1744.7	1465.9	1382.3	1338.1
77.5°	1986.3	1616.9	1082.6	1105.8	968.7	1224.3	1826.0	1619.3	1340.5	1226.6	1191.8
80°	964.1	917.6	887.4	922.3	796.8	1043.1	1668.0	1510.0	1224.3	1098.9	1047.7
82.5°	599.4	566.8	680.7	717.9	613.3	952.5	1582.1	1417.2	1077.9	910.7	868.8
85°	304.4	325.2	455.3	490.2	439.1	757.3	1303.3	1064.0	778.3	645.8	650.5
87.5°	116.1	155.7	239.3	257.9	234.6	399.6	717.9	620.3	499.5	339.2	313.6
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)