

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: P319172

Luminaire Tested: **GLEON-SA8C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41381 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

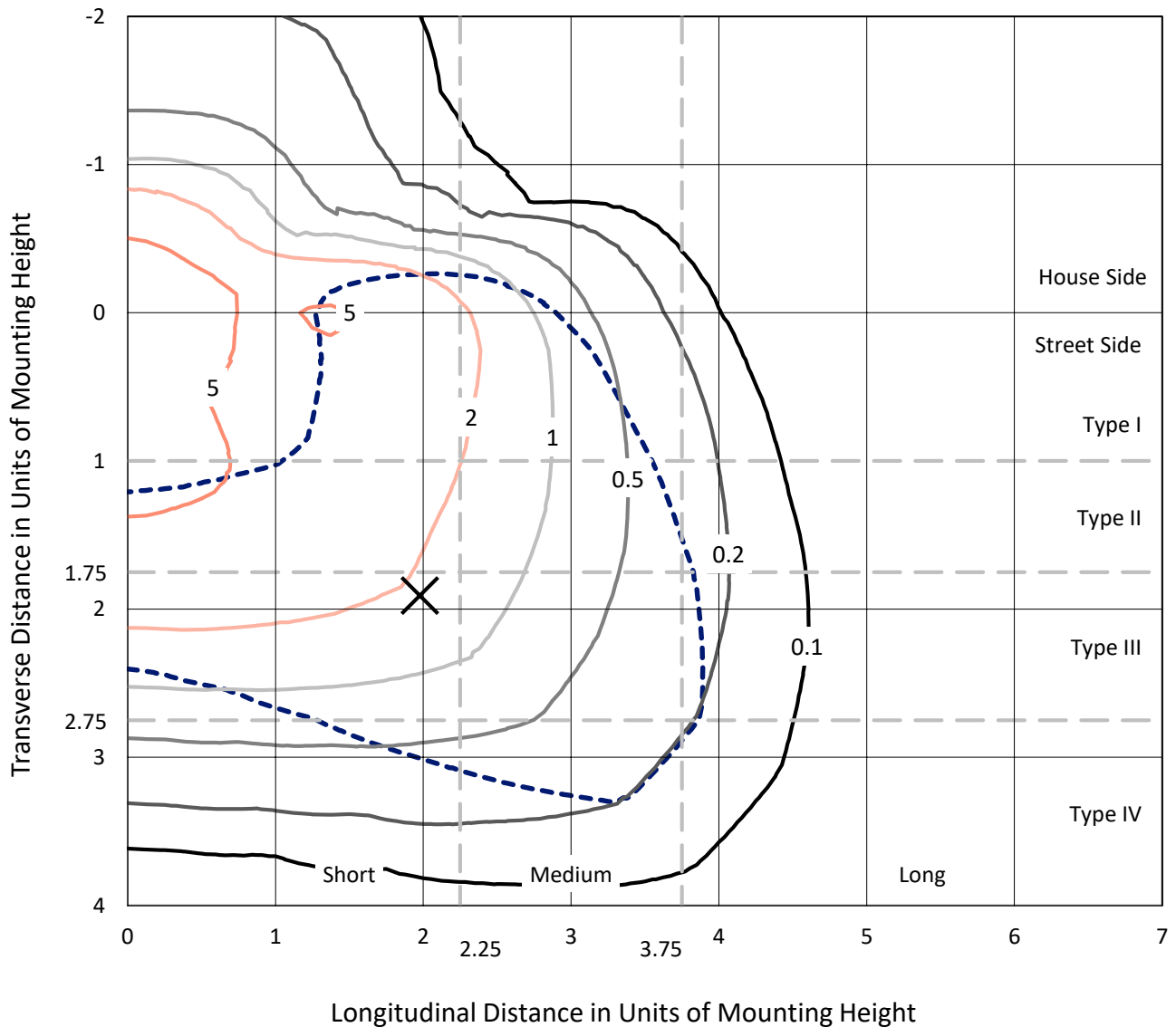
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

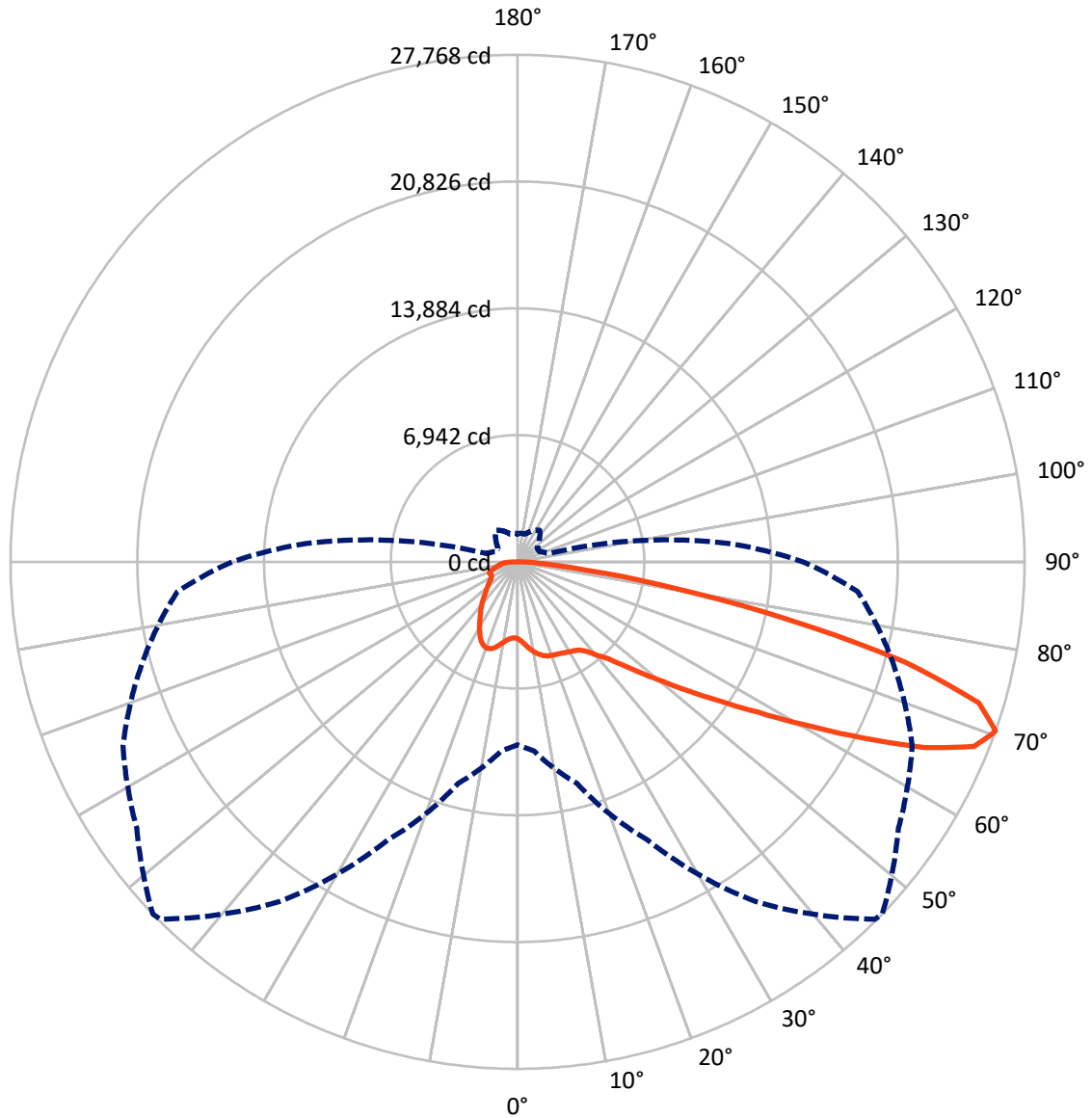
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9484.4	0.0	9484.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31896.6	0.0	31896.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	41381.0	0.0	41381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	1.0
10°-20°	1431.9	3.5
20°-30°	2387.5	5.8
30°-40°	3388.0	8.2
40°-50°	4983.6	12.0
50°-60°	8439.8	20.4
60°-70°	11980.1	29.0
70°-80°	7278.0	17.6
80°-90°	1062.1	2.6
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°	41381.0	100.0
0°-180°	41381.0	100.0

Coefficient of Utilization

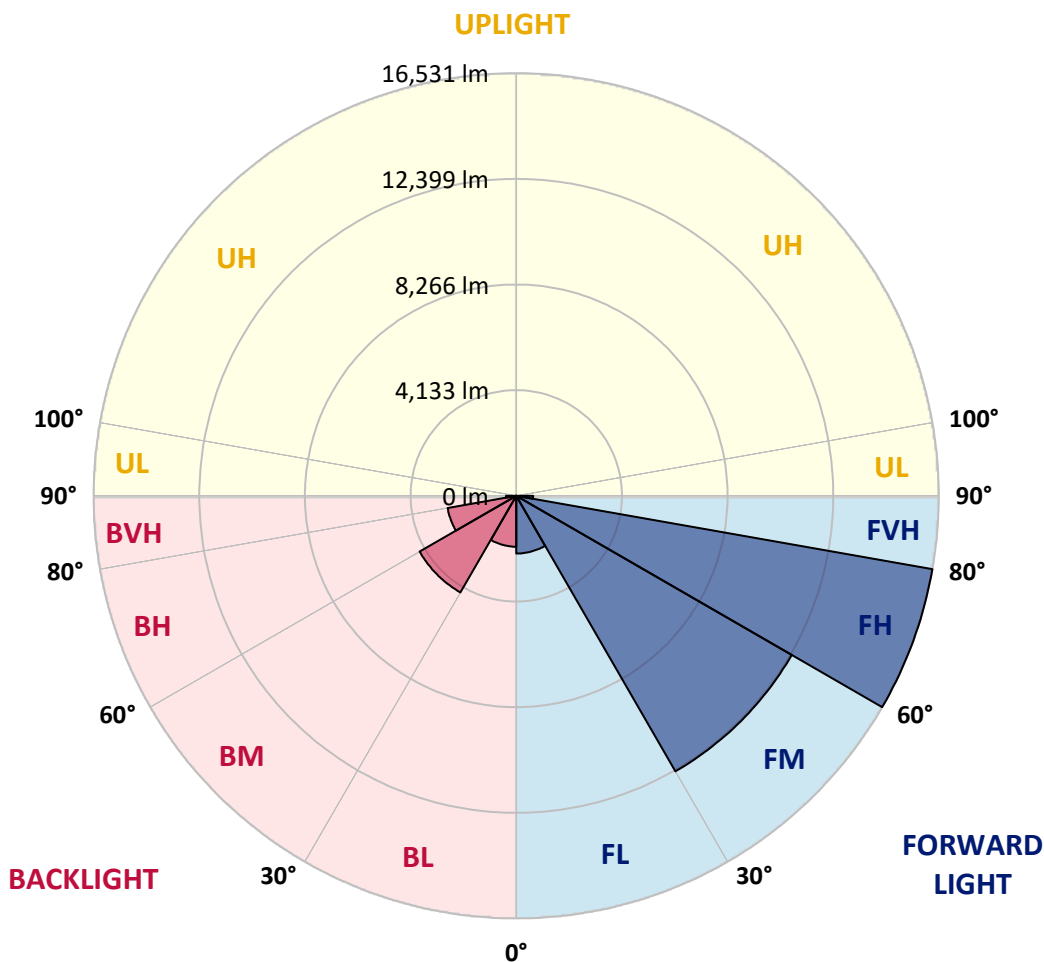


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.9	5.5			
FM (30°-60°)	12445.6	30.1			
FH (60°-80°)	16531.5	39.9			G5
FVH (80°-90°)	661.6	1.6			G4/750
BL (0°-30°)	1991.3	4.8	B3/2500		
BM (30°-60°)	4365.9	10.6	B3/5000		
BH (60°-80°)	2726.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	400.5	1.0			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°	46°	55°	65°	75°	85°
0°	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9
2.5°	4426.9	4429.8	4435.4	4421.3	4381.6	4370.3	4366.0	4325.0	4298.1	4258.4	4224.4
5°	4781.0	4783.8	4775.3	4735.6	4647.8	4582.7	4577.0	4483.6	4398.6	4308.0	4240.0
7.5°	5150.6	5154.8	5127.9	5052.9	4929.7	4816.4	4809.3	4681.8	4553.0	4415.6	4313.6
10°	5477.7	5460.7	5416.8	5312.0	5166.2	5027.4	5021.7	4888.6	4739.9	4574.2	4438.3
12.5°	5695.8	5681.6	5625.0	5497.5	5337.5	5210.1	5198.7	5075.5	4931.1	4749.8	4586.9
15°	5816.2	5826.1	5749.6	5605.2	5449.4	5341.8	5331.8	5244.0	5115.2	4932.5	4745.6
17.5°	5831.8	5840.3	5766.6	5623.6	5496.1	5422.5	5418.2	5360.2	5266.7	5091.1	4895.7
20°	5741.1	5746.8	5685.9	5568.3	5484.8	5462.1	5460.7	5435.2	5365.8	5210.1	5020.3
22.5°	5609.4	5613.7	5569.8	5484.8	5456.5	5491.9	5501.8	5491.9	5442.3	5296.4	5118.0
25°	5576.8	5574.0	5528.7	5442.3	5466.4	5541.4	5554.2	5558.4	5524.4	5397.0	5242.6
27.5°	5734.0	5724.1	5637.7	5499.0	5514.5	5605.2	5622.2	5663.2	5642.0	5530.1	5384.2
30°	6188.6	6171.6	5994.6	5714.2	5637.7	5684.5	5705.7	5770.9	5775.1	5681.6	5572.6
32.5°	6956.2	6934.9	6617.7	6116.4	5845.9	5765.2	5785.0	5882.7	5935.1	5862.9	5745.4
35°	7926.3	7902.2	7485.8	6800.4	6194.3	5919.6	5933.7	6011.6	6116.4	6014.4	5858.7
37.5°	8937.4	8879.3	8478.6	7604.8	6748.0	6249.5	6249.5	6259.4	6309.0	6096.6	5991.8
40°	9942.9	9884.8	9522.3	8550.8	7464.6	6769.3	6736.7	6517.2	6477.5	6294.8	6259.4
42.5°	10877.5	10860.5	10646.7	9620.0	8305.8	7280.5	7235.2	6862.7	6871.2	6757.9	6759.3
45°	11871.7	11871.7	11697.5	10699.1	9285.8	8101.9	8056.5	7508.5	7593.5	7541.1	7667.1
47.5°	12683.1	12708.6	12684.6	11823.5	10425.8	9145.6	9063.4	8403.5	8641.4	8821.3	9188.1
50°	13511.6	13551.3	13555.5	13057.0	11803.7	10386.1	10292.7	9591.7	10122.7	10638.2	11359.0
52.5°	14713.9	14803.1	14447.7	14287.7	13491.8	11858.9	11766.9	11119.7	12006.2	12729.9	13971.9
55°	15828.4	15750.6	15497.1	15596.2	15298.8	13535.7	13466.3	12898.4	14105.0	15045.3	16658.3
57.5°	16431.7	16426.1	16681.0	17105.8	17247.4	15603.3	15545.2	14992.9	16471.4	17178.0	19180.5
60°	17139.8	17149.7	17781.3	18745.7	19329.2	18177.9	18152.4	17733.2	18769.8	19169.2	21158.9
62.5°	17238.9	17417.4	18505.0	20164.7	21277.8	21185.8	21242.4	20201.5	20826.1	20758.1	22635.9
65°	16098.9	16334.0	18302.5	20593.8	23215.1	24475.5	24527.9	22684.1	22447.6	22116.2	23164.2
67.5°	13762.3	14110.6	16249.0	19660.6	23853.8	26907.1	26980.7	24608.6	23792.9	22576.5	21892.4
70°	10015.1	10401.7	12554.3	16791.4	22715.2	27684.5	27768.1	25459.8	23843.9	21266.5	18689.1
72.5°	6049.8	6352.9	8127.4	12361.7	19172.0	26268.4	26417.1	24380.6	21769.2	18013.6	13800.5
75°	2656.7	2855.0	3929.8	7123.3	13725.4	21733.8	21919.4	20868.6	17687.9	13091.0	8157.1
77.5°	1131.5	1188.2	1611.6	3094.3	7759.2	14851.3	15106.2	15247.8	12000.6	7123.3	3446.9
80°	705.2	727.9	912.0	1400.6	3631.0	8341.2	8615.9	8971.4	5959.2	2618.5	1203.7
82.5°	429.1	454.6	606.1	846.9	1890.6	3781.2	3912.9	4163.5	2312.6	1131.5	623.1
85°	257.7	276.2	371.0	535.3	1076.3	1487.0	1485.6	1642.7	1089.0	727.9	328.5
87.5°	123.2	137.4	198.3	277.6	542.4	558.0	522.6	592.0	661.3	477.2	165.7
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°	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9
2.5°	4213.1	4207.4	4189.0	4174.8	4172.0	4163.5	4156.4	4160.7	4166.3	4167.8	4167.8
5°	4211.7	4196.1	4172.0	4162.1	4174.8	4191.8	4213.1	4241.4	4258.4	4271.1	4279.6
7.5°	4279.6	4249.9	4223.0	4217.3	4242.8	4288.1	4336.3	4395.8	4436.8	4465.2	4470.8
10°	4392.9	4356.1	4329.2	4334.9	4380.2	4445.3	4513.3	4589.8	4652.1	4690.3	4693.2
12.5°	4523.2	4487.8	4462.3	4486.4	4561.5	4640.8	4711.6	4778.1	4834.8	4873.0	4873.0
15°	4673.3	4647.8	4618.1	4673.3	4775.3	4846.1	4875.8	4908.4	4939.6	4967.9	4962.2
17.5°	4817.8	4793.7	4778.1	4843.3	4949.5	4982.1	4962.2	4938.2	4938.2	4953.7	4956.6
20°	4942.4	4921.2	4931.1	4994.8	5050.0	5016.0	4942.4	4865.9	4834.8	4843.3	4851.8
22.5°	5051.4	5041.5	5071.3	5101.0	5061.4	4942.4	4806.5	4703.1	4664.8	4662.0	4664.8
25°	5178.9	5177.5	5214.3	5160.5	4984.9	4765.4	4582.7	4482.2	4460.9	4477.9	4506.2
27.5°	5337.5	5353.1	5371.5	5174.7	4829.1	4497.7	4312.2	4242.8	4264.1	4305.1	4332.0
30°	5540.0	5582.5	5542.9	5139.3	4605.4	4191.8	4014.8	3995.0	4053.1	4111.1	4139.4
32.5°	5736.9	5803.4	5707.1	5047.2	4316.5	3867.5	3730.2	3724.5	3795.3	3852.0	3891.6
35°	5895.5	6027.2	5830.3	4864.5	3982.2	3568.7	3468.2	3429.9	3455.4	3522.0	3567.3
37.5°	6102.2	6321.7	5915.3	4585.5	3619.7	3322.3	3204.8	3117.0	3094.3	3121.2	3143.9
40°	6480.4	6770.7	5955.0	4196.1	3265.7	3075.9	2956.9	2828.1	2738.9	2673.7	2675.1
42.5°	7097.8	7355.5	5929.5	3723.1	2938.5	2835.2	2700.6	2551.9	2407.5	2260.2	2248.9
45°	8100.4	8225.1	5853.0	3221.8	2651.1	2583.1	2457.0	2308.3	2115.7	1948.6	1933.1
47.5°	9705.0	9428.8	5734.0	2784.2	2397.6	2369.2	2253.1	2081.8	1877.8	1743.3	1732.0
50°	11892.9	11166.4	5676.0	2435.8	2173.8	2182.3	2087.4	1906.2	1713.6	1614.4	1603.1
52.5°	14510.0	13190.1	5787.9	2166.7	1994.0	2023.7	1952.9	1782.9	1621.5	1543.6	1532.3
55°	17224.8	15286.1	5908.2	1971.3	1824.0	1882.1	1858.0	1717.8	1571.9	1499.7	1489.8
57.5°	19548.7	16850.9	5667.5	1812.7	1672.5	1763.1	1784.4	1676.7	1546.4	1481.3	1470.0
60°	21011.6	17481.1	5035.9	1664.0	1552.1	1668.2	1741.9	1665.4	1556.4	1550.7	1542.2
62.5°	21705.5	17425.9	4088.5	1546.4	1477.1	1627.2	1773.0	1729.1	1669.7	1720.6	1724.9
65°	21394.0	16593.2	3044.7	1468.6	1423.2	1642.7	1866.5	1849.5	1702.2	1753.2	1760.3
67.5°	19343.4	14606.3	2254.5	1400.6	1363.8	1686.6	2036.4	1889.2	1638.5	1675.3	1652.7
70°	15634.4	11580.0	1739.0	1324.1	1302.9	1681.0	2112.9	1865.1	1569.1	1577.6	1516.7
72.5°	10781.2	7896.5	1414.7	1253.3	1215.1	1532.3	2059.1	1805.6	1511.0	1445.9	1365.2
75°	5862.9	4238.6	1202.3	1179.7	1060.7	1345.4	1960.0	1763.1	1458.6	1372.3	1326.9
77.5°	2306.9	1758.9	1043.7	1079.1	927.6	1188.2	1849.5	1682.4	1386.4	1273.1	1250.5
80°	941.7	897.8	865.3	933.3	797.3	1039.5	1716.4	1587.5	1300.0	1181.1	1135.8
82.5°	533.9	558.0	672.7	736.4	647.2	957.3	1652.7	1511.0	1196.7	1057.9	1004.1
85°	273.3	327.1	468.7	528.2	475.8	814.3	1522.4	1322.7	960.2	810.0	814.3
87.5°	131.7	182.7	296.0	331.4	308.7	589.1	1137.2	958.7	747.7	592.0	573.5
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)