

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: P319164

Luminaire Tested: **GLEON-SA0B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319164
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-SA0B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 41291 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

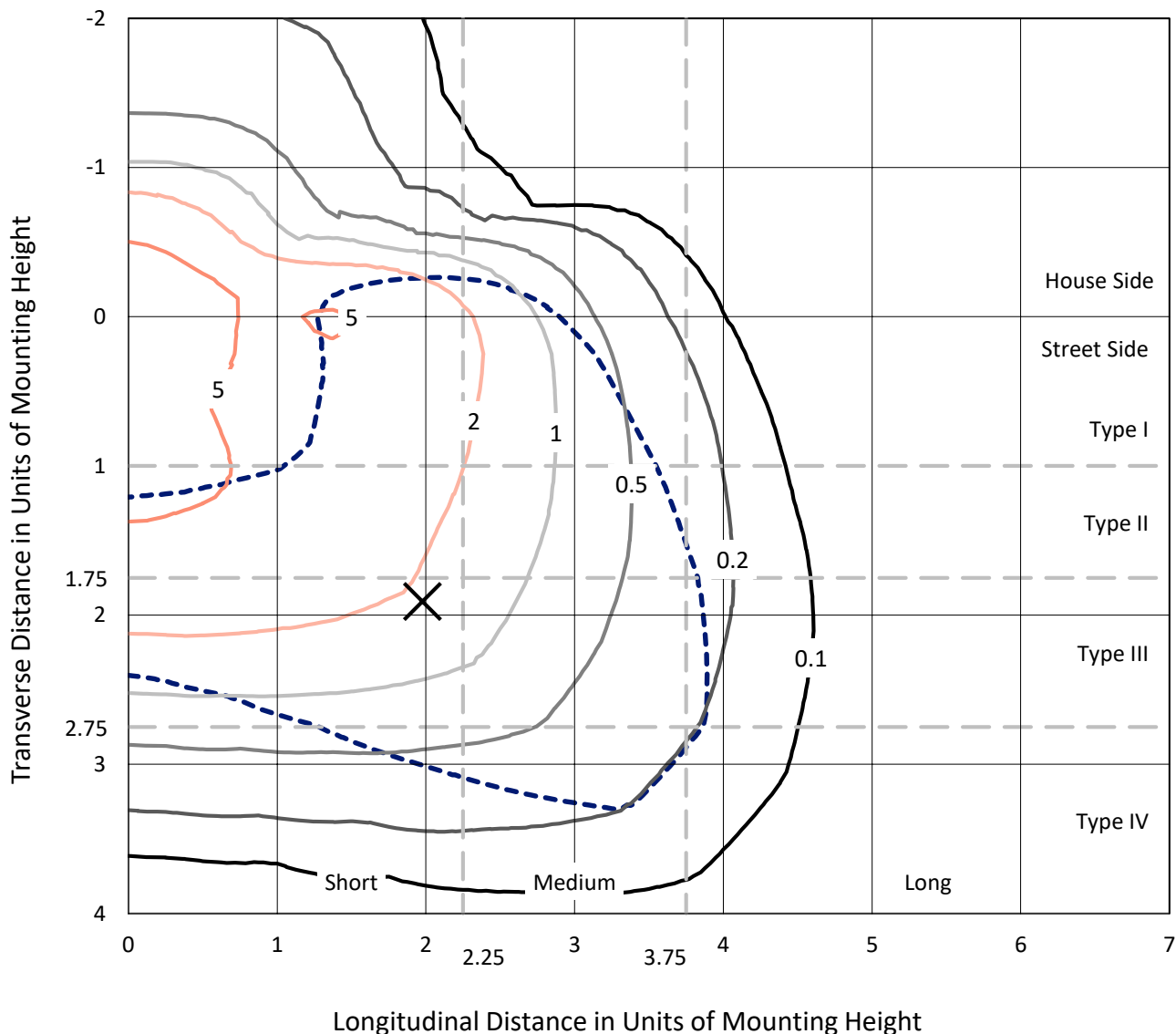
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

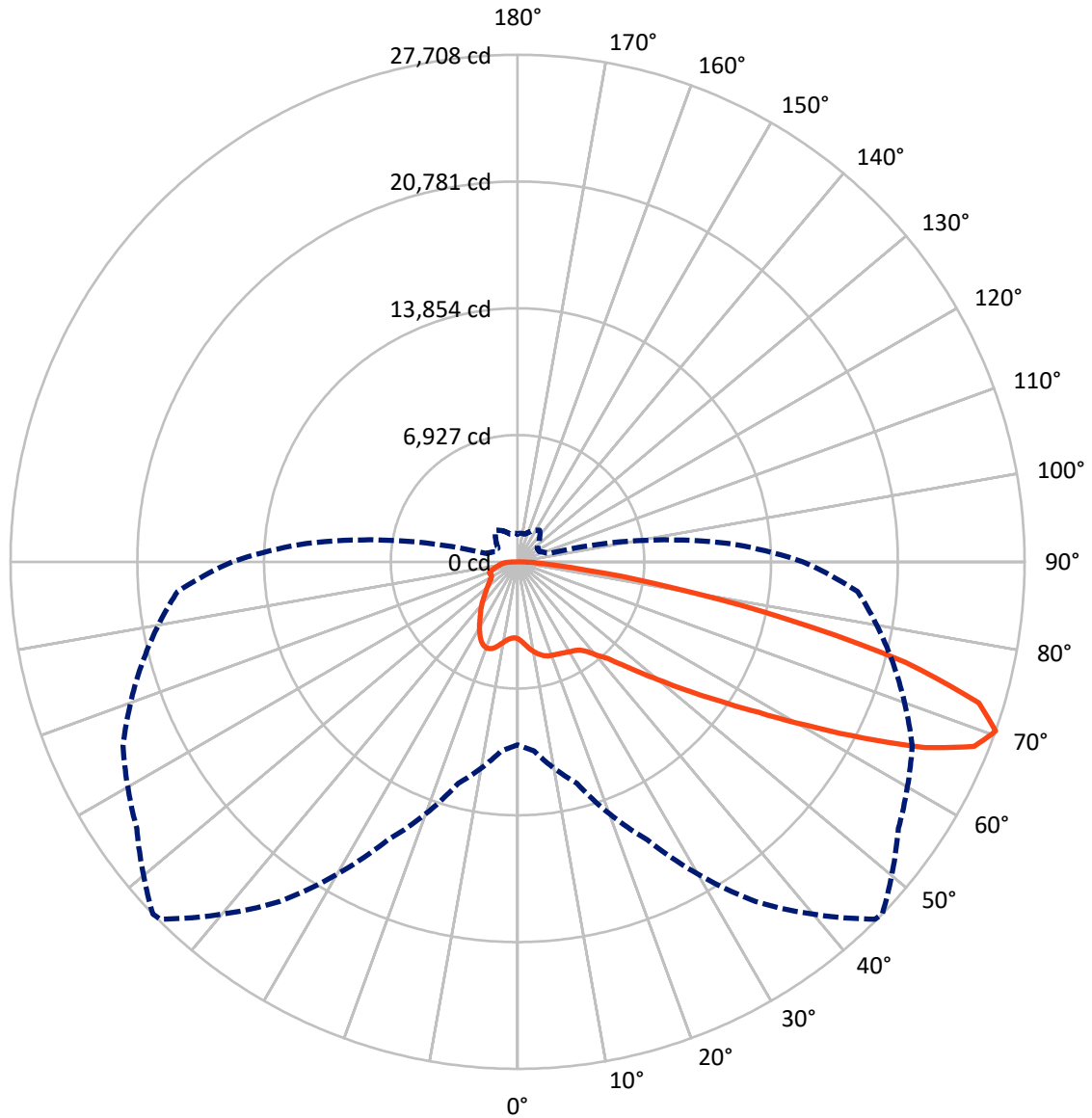
✕ Max cd
 - - - 1/2 Max cd



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	9463.8	0.0	9463.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31827.2	0.0	31827.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	41291.0	0.0	41291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.0
10°-20°	1428.8	3.5
20°-30°	2382.3	5.8
30°-40°	3380.7	8.2
40°-50°	4972.8	12.0
50°-60°	8421.4	20.4
60°-70°	11954.1	29.0
70°-80°	7262.2	17.6
80°-90°	1059.8	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°	41291.0	100.0
0°-180°	41291.0	100.0

Coefficient of Utilization

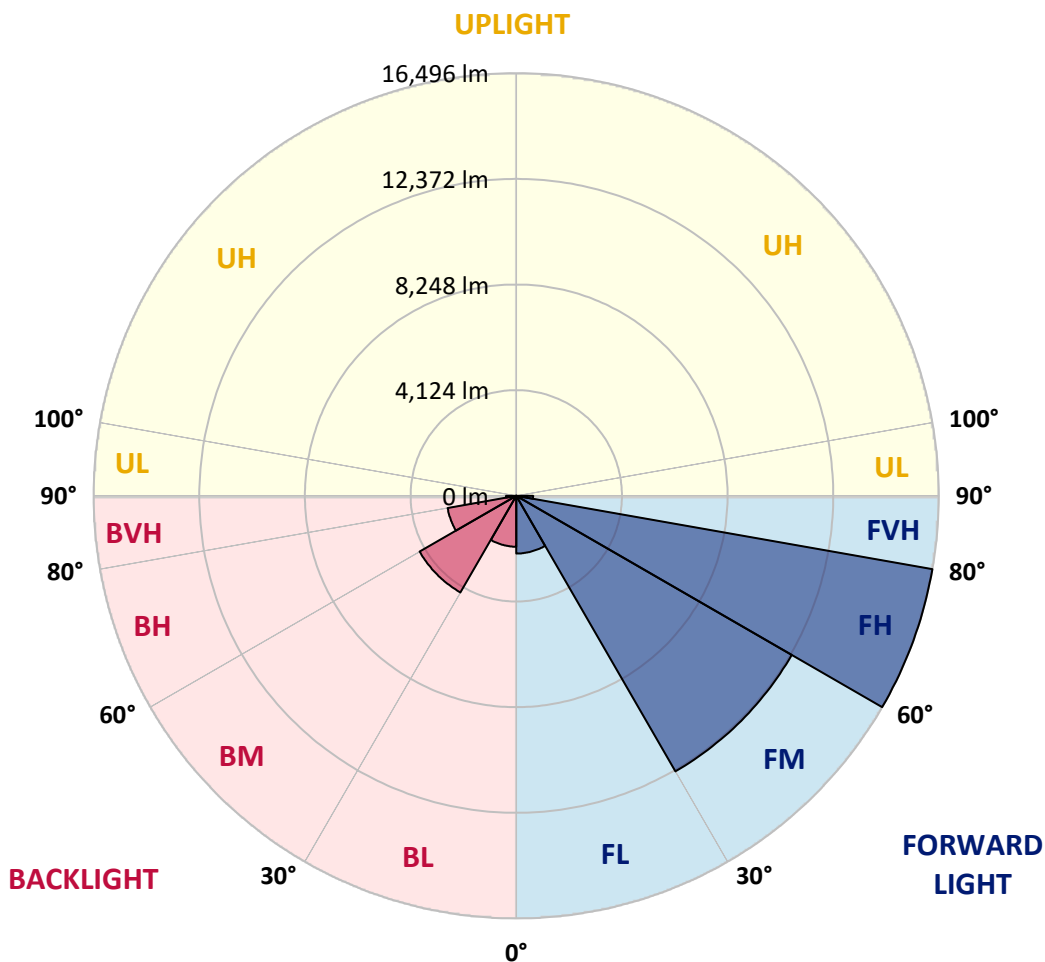


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.0	5.5			
FM (30°-60°)	12418.5	30.1			
FH (60°-80°)	16495.5	39.9			G5
FVH (80°-90°)	660.2	1.6			G4/750
BL (0°-30°)	1986.9	4.8	B3/2500		
BM (30°-60°)	4356.4	10.6	B3/5000		
BH (60°-80°)	2720.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	399.6	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°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
2.5°	4417.3	4420.1	4425.8	4411.6	4372.1	4360.8	4356.5	4315.6	4288.7	4249.1	4215.2
5°	4770.6	4773.4	4764.9	4725.3	4637.7	4572.7	4567.1	4473.8	4389.0	4298.6	4230.8
7.5°	5139.4	5143.6	5116.8	5041.9	4918.9	4805.9	4798.8	4671.6	4543.1	4406.0	4304.2
10°	5465.8	5448.8	5405.0	5300.5	5154.9	5016.4	5010.8	4878.0	4729.6	4564.3	4428.6
12.5°	5683.4	5669.3	5612.8	5485.6	5325.9	5198.7	5187.4	5064.5	4920.4	4739.5	4577.0
15°	5803.5	5813.4	5737.1	5593.0	5437.5	5330.1	5320.3	5232.6	5104.1	4921.8	4735.2
17.5°	5819.1	5827.5	5754.1	5611.3	5484.2	5410.7	5406.5	5348.5	5255.3	5080.0	4885.0
20°	5728.6	5734.3	5673.5	5556.2	5472.9	5450.3	5448.8	5423.4	5354.2	5198.7	5009.4
22.5°	5597.2	5601.5	5557.7	5472.9	5444.6	5479.9	5489.8	5479.9	5430.5	5284.9	5106.9
25°	5564.7	5561.9	5516.7	5430.5	5454.5	5529.4	5542.1	5546.3	5512.4	5385.3	5231.2
27.5°	5721.6	5711.7	5625.5	5487.0	5502.5	5593.0	5609.9	5650.9	5629.7	5518.1	5372.5
30°	6175.2	6158.2	5981.6	5701.8	5625.5	5672.1	5693.3	5758.3	5762.5	5669.3	5560.5
32.5°	6941.1	6919.9	6603.3	6103.1	5833.2	5752.7	5772.4	5869.9	5922.2	5850.2	5732.9
35°	7909.0	7885.0	7469.6	6785.6	6180.8	5906.7	5920.8	5998.5	6103.1	6001.4	5845.9
37.5°	8918.0	8860.0	8460.1	7588.2	6733.3	6235.9	6235.9	6245.8	6295.3	6083.3	5978.7
40°	9921.2	9863.3	9501.6	8532.2	7448.4	6754.5	6722.0	6503.0	6463.4	6281.1	6245.8
42.5°	10853.9	10836.9	10623.5	9599.1	8287.7	7264.7	7219.4	6847.8	6856.3	6743.2	6744.6
45°	11845.9	11845.9	11672.1	10675.8	9265.6	8084.2	8039.0	7492.2	7576.9	7524.7	7650.4
47.5°	12655.6	12681.0	12657.0	11797.8	10403.1	9125.7	9043.7	8385.2	8622.6	8802.1	9168.1
50°	13482.2	13521.8	13526.0	13028.6	11778.0	10363.5	10270.3	9570.8	10100.7	10615.1	11334.3
52.5°	14681.9	14770.9	14416.3	14256.6	13462.4	11833.1	11741.3	11095.5	11980.1	12702.2	13941.5
55°	15794.0	15716.3	15463.4	15562.3	15265.5	13506.2	13437.0	12870.3	14074.3	15012.6	16622.1
57.5°	16396.0	16390.3	16644.7	17068.6	17209.9	15569.3	15511.4	14960.3	16435.6	17140.7	19138.8
60°	17102.5	17112.4	17742.7	18705.0	19287.2	18138.3	18112.9	17694.6	18729.0	19127.5	21112.9
62.5°	17201.4	17379.5	18464.7	20120.9	21231.6	21139.7	21196.2	20157.6	20780.8	20713.0	22586.7
65°	16063.9	16298.5	18262.7	20549.0	23164.7	24422.3	24474.6	22634.7	22398.8	22068.1	23113.8
67.5°	13732.3	14079.9	16213.7	19617.8	23802.0	26848.6	26922.0	24555.1	23741.2	22527.4	21844.8
70°	9993.3	10379.1	12527.0	16754.9	22665.8	27624.3	27707.7	25404.4	23792.1	21220.3	18648.4
72.5°	6036.7	6339.1	8109.7	12334.8	19130.3	26211.3	26359.6	24327.6	21721.9	17974.4	13770.5
75°	2650.9	2848.8	3921.3	7107.8	13695.6	21686.6	21871.7	20823.2	17649.4	13062.5	8139.4
77.5°	1129.1	1185.6	1608.1	3087.6	7742.3	14819.0	15073.3	15214.7	11974.5	7107.8	3439.4
80°	703.7	726.3	910.0	1397.5	3623.1	8323.1	8597.2	8951.9	5946.2	2612.8	1201.1
82.5°	428.2	453.6	604.8	845.0	1886.5	3772.9	3904.3	4154.5	2307.6	1129.1	621.8
85°	257.2	275.6	370.2	534.1	1073.9	1483.7	1482.3	1639.2	1086.7	726.3	327.8
87.5°	122.9	137.1	197.8	277.0	541.2	556.8	521.4	590.7	659.9	476.2	165.3
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°	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7	4206.7
2.5°	4203.9	4198.3	4179.9	4165.8	4162.9	4154.5	4147.4	4151.6	4157.3	4158.7	4158.7
5°	4202.5	4187.0	4162.9	4153.0	4165.8	4182.7	4203.9	4232.2	4249.1	4261.9	4270.3
7.5°	4270.3	4240.7	4213.8	4208.2	4233.6	4278.8	4326.9	4386.2	4427.2	4455.4	4461.1
10°	4383.4	4346.6	4319.8	4325.4	4370.7	4435.7	4503.5	4579.8	4642.0	4680.1	4683.0
12.5°	4513.4	4478.1	4452.6	4476.6	4551.5	4630.7	4701.3	4767.7	4824.3	4862.4	4862.4
15°	4663.2	4637.7	4608.1	4663.2	4764.9	4835.6	4865.2	4897.7	4928.8	4957.1	4951.4
17.5°	4807.3	4783.3	4767.7	4832.7	4938.7	4971.2	4951.4	4927.4	4927.4	4943.0	4945.8
20°	4931.7	4910.5	4920.4	4983.9	5039.0	5005.1	4931.7	4855.3	4824.3	4832.7	4841.2
22.5°	5040.5	5030.6	5060.2	5089.9	5050.4	4931.7	4796.0	4692.8	4654.7	4651.9	4654.7
25°	5167.6	5166.2	5203.0	5149.3	4974.0	4755.0	4572.7	4472.4	4451.2	4468.2	4496.4
27.5°	5325.9	5341.4	5359.8	5163.4	4818.6	4487.9	4302.8	4233.6	4254.8	4295.8	4322.6
30°	5528.0	5570.4	5530.8	5128.1	4595.3	4182.7	4006.1	3986.3	4044.2	4102.2	4130.4
32.5°	5724.4	5790.8	5694.7	5036.2	4307.1	3859.1	3722.1	3716.4	3787.1	3843.6	3883.1
35°	5882.7	6014.1	5817.7	4853.9	3973.6	3561.0	3460.6	3422.5	3447.9	3514.3	3559.6
37.5°	6089.0	6308.0	5902.4	4575.6	3611.8	3315.1	3197.8	3110.2	3087.6	3114.4	3137.0
40°	6466.3	6755.9	5942.0	4187.0	3258.6	3069.2	2950.5	2821.9	2732.9	2667.9	2669.3
42.5°	7082.4	7339.5	5916.6	3715.0	2932.1	2829.0	2694.7	2546.4	2402.2	2255.3	2244.0
45°	8082.8	8207.2	5840.3	3214.8	2645.3	2577.5	2451.7	2303.3	2111.1	1944.4	1928.9
47.5°	9683.9	9408.3	5721.6	2778.1	2392.3	2364.1	2248.2	2077.2	1873.7	1739.5	1728.2
50°	11867.1	11142.2	5663.6	2430.5	2169.1	2177.6	2082.9	1902.0	1709.8	1610.9	1599.6
52.5°	14478.4	13161.4	5775.3	2162.0	1989.6	2019.3	1948.6	1779.1	1618.0	1540.3	1529.0
55°	17187.3	15252.8	5895.4	1967.0	1820.0	1878.0	1854.0	1714.1	1568.5	1496.5	1486.6
57.5°	19506.2	16814.3	5655.2	1808.7	1668.8	1759.3	1780.5	1673.1	1543.1	1478.1	1466.8
60°	20965.9	17443.1	5024.9	1660.4	1548.7	1664.6	1738.1	1661.8	1553.0	1547.3	1538.8
62.5°	21658.3	17388.0	4079.6	1543.1	1473.8	1623.6	1769.2	1725.4	1666.0	1716.9	1721.1
65°	21347.4	16557.1	3038.1	1465.4	1420.1	1639.2	1862.4	1845.5	1698.5	1749.4	1756.5
67.5°	19301.3	14574.5	2249.6	1397.5	1360.8	1683.0	2032.0	1885.1	1634.9	1671.7	1649.1
70°	15600.4	11554.8	1735.3	1321.2	1300.0	1677.3	2108.3	1861.0	1565.7	1574.2	1513.4
72.5°	10757.8	7879.3	1411.7	1250.6	1212.4	1529.0	2054.6	1801.7	1507.8	1442.8	1362.2
75°	5850.2	4229.4	1199.7	1177.1	1058.4	1342.4	1955.7	1759.3	1455.5	1369.3	1324.1
77.5°	2301.9	1755.0	1041.4	1076.8	925.6	1185.6	1845.5	1678.7	1383.4	1270.4	1247.8
80°	939.7	895.9	863.4	931.2	795.6	1037.2	1712.7	1584.1	1297.2	1178.5	1133.3
82.5°	532.7	556.8	671.2	734.8	645.8	955.2	1649.1	1507.8	1194.1	1055.6	1001.9
85°	272.7	326.4	467.7	527.1	474.8	812.5	1519.1	1319.8	958.1	808.3	812.5
87.5°	131.4	182.3	295.3	330.7	308.1	587.8	1134.7	956.7	746.1	590.7	572.3
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)