

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: P319171

Luminaire Tested: **GLEON-SA7C-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319171  
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-SA7C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 36521 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

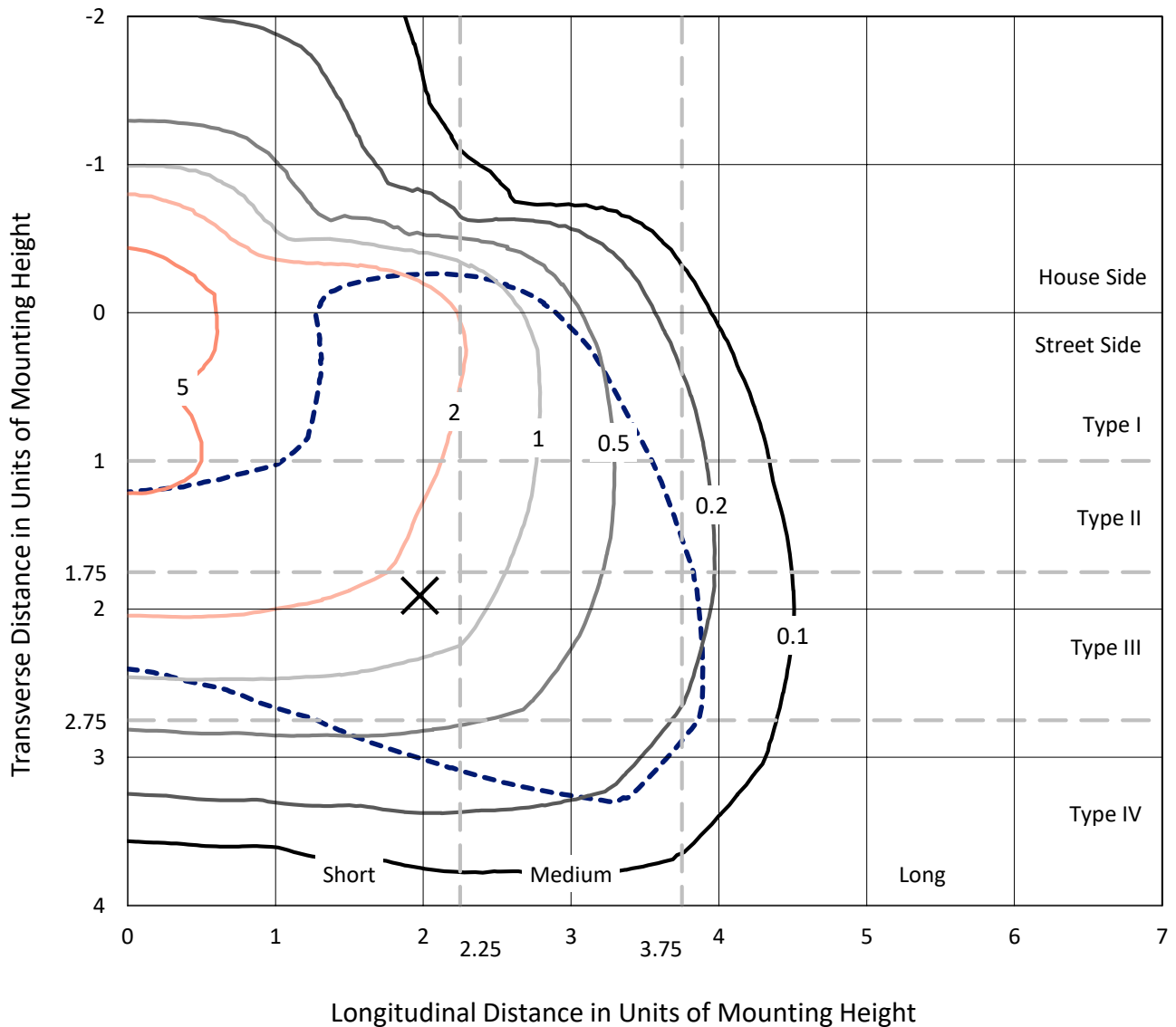
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

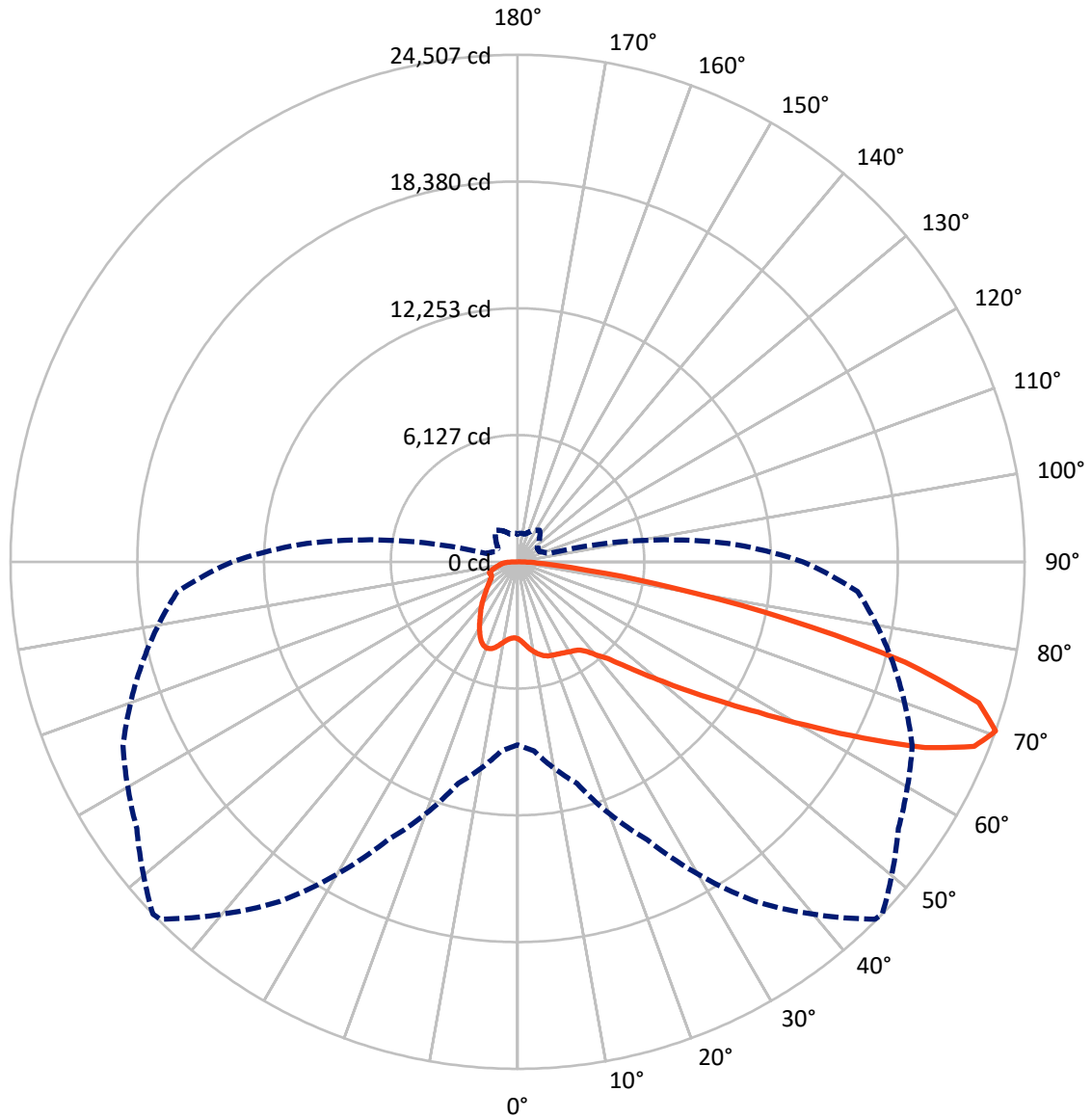
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	8370.5	0.0	8370.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	28150.5	0.0	28150.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	36521.0	0.0	36521.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.3	1.0
10°-20°	1263.7	3.5
20°-30°	2107.1	5.8
30°-40°	2990.1	8.2
40°-50°	4398.3	12.0
50°-60°	7448.6	20.4
60°-70°	10573.1	29.0
70°-80°	6423.3	17.6
80°-90°	937.4	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°	36521.0	100.0
0°-180°	36521.0	100.0

**Coefficient of Utilization**



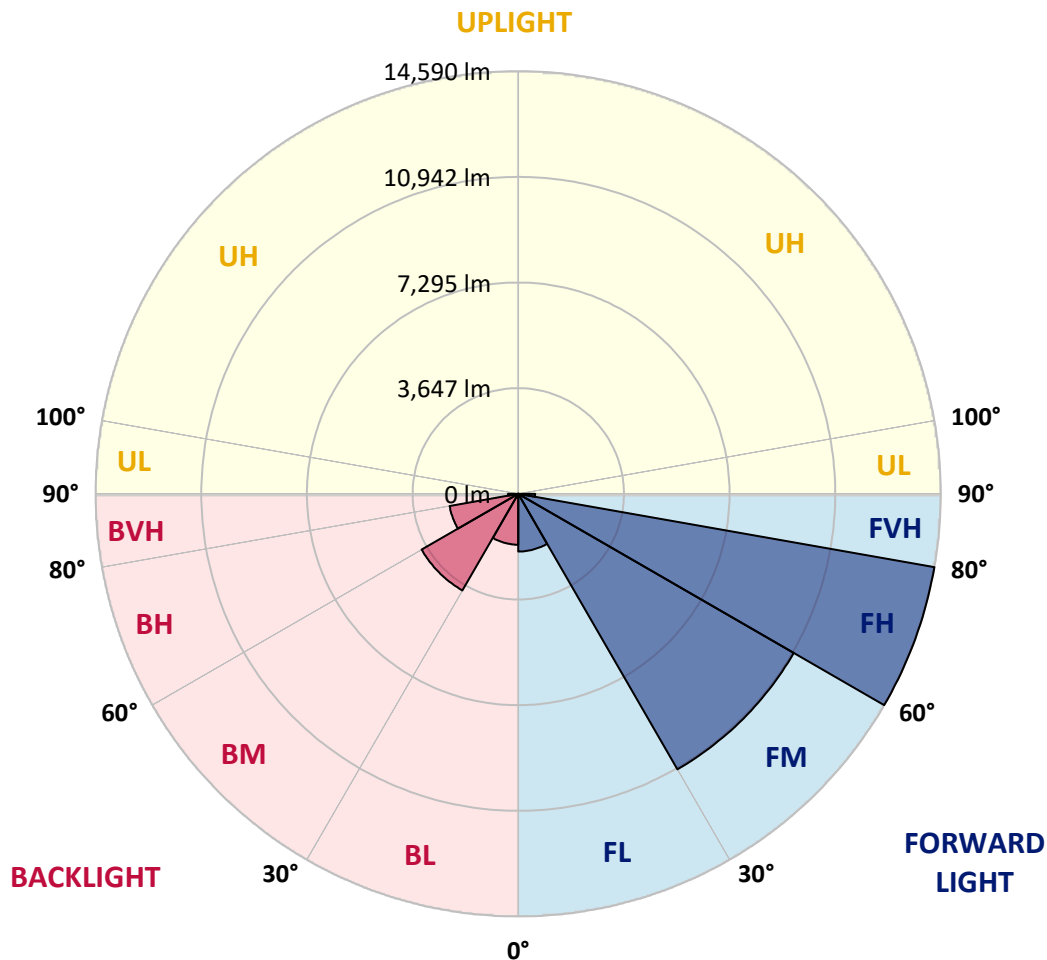
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.8	5.5			
FM (30°-60°)	10983.9	30.1			
FH (60°-80°)	14589.9	39.9			G5
FVH (80°-90°)	583.9	1.6			G4/750
BL (0°-30°)	1757.4	4.8	B3/2500		
BM (30°-60°)	3853.2	10.6	B3/5000		
BH (60°-80°)	2406.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	353.5	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8
2.5°	3907.0	3909.5	3914.5	3902.0	3867.0	3857.0	3853.3	3817.0	3793.3	3758.3	3728.3
5°	4219.5	4222.0	4214.5	4179.5	4102.0	4044.5	4039.5	3957.0	3882.0	3802.0	3742.0
7.5°	4545.7	4549.4	4525.7	4459.4	4350.7	4250.7	4244.5	4132.0	4018.2	3897.0	3807.0
10°	4834.4	4819.4	4780.6	4688.2	4559.4	4436.9	4431.9	4314.4	4183.2	4037.0	3917.0
12.5°	5026.9	5014.4	4964.4	4851.9	4710.6	4598.2	4588.2	4479.4	4351.9	4192.0	4048.2
15°	5133.1	5141.8	5074.4	4946.9	4809.4	4714.4	4705.6	4628.2	4514.4	4353.2	4188.2
17.5°	5146.8	5154.3	5089.4	4963.1	4850.6	4785.6	4781.9	4730.6	4648.2	4493.2	4320.7
20°	5066.9	5071.9	5018.1	4914.4	4840.6	4820.6	4819.4	4796.9	4735.6	4598.2	4430.7
22.5°	4950.6	4954.4	4915.6	4840.6	4815.6	4846.9	4855.6	4846.9	4803.1	4674.4	4516.9
25°	4921.9	4919.4	4879.4	4803.1	4824.4	4890.6	4901.9	4905.6	4875.6	4763.1	4626.9
27.5°	5060.6	5051.9	4975.6	4853.1	4866.9	4946.9	4961.9	4998.1	4979.4	4880.6	4751.9
30°	5461.8	5446.8	5290.6	5043.1	4975.6	5016.9	5035.6	5093.1	5096.8	5014.4	4918.1
32.5°	6139.2	6120.5	5840.5	5398.1	5159.3	5088.1	5105.6	5191.8	5238.1	5174.3	5070.6
35°	6995.4	6974.1	6606.7	6001.7	5466.8	5224.3	5236.8	5305.6	5398.1	5308.1	5170.6
37.5°	7887.7	7836.5	7482.8	6711.6	5955.5	5515.5	5515.5	5524.3	5568.0	5380.6	5288.1
40°	8775.1	8723.9	8403.9	7546.5	6587.9	5974.2	5945.5	5751.8	5716.8	5555.5	5524.3
42.5°	9600.0	9585.0	9396.3	8490.2	7330.3	6425.4	6385.4	6056.7	6064.2	5964.2	5965.5
45°	10477.4	10477.4	10323.7	9442.5	8195.2	7150.3	7110.3	6626.7	6701.6	6655.4	6766.6
47.5°	11193.6	11216.1	11194.8	10434.9	9201.3	8071.5	7999.0	7416.6	7626.5	7785.3	8109.0
50°	11924.7	11959.7	11963.5	11523.5	10417.4	9166.3	9083.8	8465.2	8933.9	9388.8	10025.0
52.5°	12985.8	13064.6	12750.9	12609.6	11907.2	10466.2	10384.9	9813.7	10596.1	11234.8	12330.9
55°	13969.5	13900.7	13677.0	13764.5	13502.0	11946.0	11884.7	11383.5	12448.4	13278.3	14701.9
57.5°	14501.9	14496.9	14721.9	15096.8	15221.8	13770.7	13719.5	13232.1	14536.9	15160.6	16927.8
60°	15126.8	15135.6	15693.0	16544.1	17059.1	16043.0	16020.5	15650.5	16565.4	16917.8	18673.9
62.5°	15214.3	15371.8	16331.7	17796.5	18778.9	18697.6	18747.6	17829.0	18380.2	18320.2	19977.5
65°	14208.2	14415.7	16152.9	18175.2	20488.6	21601.0	21647.2	20019.9	19811.2	19518.8	20443.6
67.5°	12145.9	12453.4	14340.7	17351.5	21052.3	23747.0	23812.0	21718.5	20998.6	19925.0	19321.3
70°	8838.9	9180.1	11079.8	14819.4	20047.4	24433.1	24506.9	22469.6	21043.6	18768.9	16494.1
72.5°	5339.3	5606.8	7172.8	10909.9	16920.3	23183.3	23314.5	21517.3	19212.5	15898.0	12179.7
75°	2344.7	2519.7	3468.3	6286.7	12113.5	19181.3	19345.0	18417.6	15610.5	11553.5	7199.1
77.5°	998.6	1048.6	1422.3	2730.9	6847.9	13107.1	13332.0	13457.0	10591.1	6286.7	3042.1
80°	622.4	642.4	804.9	1236.1	3204.6	7361.6	7604.0	7917.7	5259.3	2311.0	1062.4
82.5°	378.7	401.2	534.9	747.4	1668.5	3337.1	3453.3	3674.5	2041.0	998.6	549.9
85°	227.5	243.7	327.5	472.4	949.9	1312.3	1311.1	1449.8	961.1	642.4	290.0
87.5°	108.7	121.2	175.0	245.0	478.7	492.4	461.2	522.4	583.7	421.2	146.2
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°	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8
2.5°	3718.3	3713.3	3697.0	3684.5	3682.0	3674.5	3668.3	3672.0	3677.0	3678.3	3678.3
5°	3717.0	3703.3	3682.0	3673.3	3684.5	3699.5	3718.3	3743.3	3758.3	3769.5	3777.0
7.5°	3777.0	3750.8	3727.0	3722.0	3744.5	3784.5	3827.0	3879.5	3915.8	3940.7	3945.7
10°	3877.0	3844.5	3820.8	3825.8	3865.8	3923.2	3983.2	4050.7	4105.7	4139.5	4142.0
12.5°	3992.0	3960.7	3938.2	3959.5	4025.7	4095.7	4158.2	4217.0	4267.0	4300.7	4300.7
15°	4124.5	4102.0	4075.7	4124.5	4214.5	4277.0	4303.2	4331.9	4359.4	4384.4	4379.4
17.5°	4252.0	4230.7	4217.0	4274.5	4368.2	4396.9	4379.4	4358.2	4358.2	4371.9	4374.4
20°	4361.9	4343.2	4351.9	4408.2	4456.9	4426.9	4361.9	4294.5	4267.0	4274.5	4282.0
22.5°	4458.2	4449.4	4475.7	4501.9	4466.9	4361.9	4242.0	4150.7	4117.0	4114.5	4117.0
25°	4570.7	4569.4	4601.9	4554.4	4399.4	4205.7	4044.5	3955.7	3937.0	3952.0	3977.0
27.5°	4710.6	4724.4	4740.6	4566.9	4262.0	3969.5	3805.8	3744.5	3763.3	3799.5	3823.3
30°	4889.4	4926.9	4891.9	4535.7	4064.5	3699.5	3543.3	3525.8	3577.0	3628.3	3653.3
32.5°	5063.1	5121.8	5036.9	4454.4	3809.5	3413.3	3292.1	3287.1	3349.6	3399.6	3434.6
35°	5203.1	5319.3	5145.6	4293.2	3514.6	3149.6	3060.9	3027.1	3049.6	3108.4	3148.3
37.5°	5385.6	5579.3	5220.6	4047.0	3194.6	2932.1	2828.4	2750.9	2730.9	2754.6	2774.6
40°	5719.3	5975.5	5255.6	3703.3	2882.1	2714.7	2609.7	2495.9	2417.2	2359.7	2360.9
42.5°	6264.2	6491.7	5233.1	3285.8	2593.4	2502.2	2383.4	2252.2	2124.7	1994.7	1984.7
45°	7149.1	7259.1	5165.6	2843.4	2339.7	2279.7	2168.5	2037.2	1867.3	1719.8	1706.0
47.5°	8565.2	8321.4	5060.6	2457.2	2116.0	2091.0	1988.5	1837.3	1657.3	1538.6	1528.6
50°	10496.2	9855.0	5009.4	2149.7	1918.5	1926.0	1842.3	1682.3	1512.3	1424.8	1414.8
52.5°	12805.9	11641.0	5108.1	1912.3	1759.8	1786.0	1723.5	1573.5	1431.1	1362.3	1352.3
55°	15201.8	13490.8	5214.3	1739.8	1609.8	1661.0	1639.8	1516.1	1387.3	1323.6	1314.8
57.5°	17252.8	14871.9	5001.9	1599.8	1476.1	1556.1	1574.8	1479.8	1364.8	1307.3	1297.3
60°	18543.9	15428.0	4444.4	1468.6	1369.8	1472.3	1537.3	1469.8	1373.6	1368.6	1361.1
62.5°	19156.3	15379.3	3608.3	1364.8	1303.6	1436.1	1564.8	1526.1	1473.6	1518.6	1522.3
65°	18881.3	14644.4	2687.2	1296.1	1256.1	1449.8	1647.3	1632.3	1502.3	1547.3	1553.6
67.5°	17071.6	12890.9	1989.7	1236.1	1203.6	1488.6	1797.3	1667.3	1446.1	1478.6	1458.6
70°	13798.2	10219.9	1534.8	1168.6	1149.9	1483.6	1864.8	1646.0	1384.8	1392.3	1338.6
72.5°	9515.0	6969.1	1248.6	1106.1	1072.4	1352.3	1817.3	1593.5	1333.6	1276.1	1204.8
75°	5174.3	3740.8	1061.1	1041.1	936.1	1187.3	1729.8	1556.1	1287.3	1211.1	1171.1
77.5°	2036.0	1552.3	921.1	952.4	818.6	1048.6	1632.3	1484.8	1223.6	1123.6	1103.6
80°	831.1	792.4	763.7	823.6	703.7	917.4	1514.8	1401.1	1147.4	1042.4	1002.4
82.5°	471.2	492.4	593.7	649.9	571.2	844.9	1458.6	1333.6	1056.1	933.6	886.1
85°	241.2	288.7	413.7	466.2	419.9	718.7	1343.6	1167.4	847.4	714.9	718.7
87.5°	116.2	161.2	261.2	292.5	272.5	519.9	1003.6	846.1	659.9	522.4	506.2
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)