

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: P382625

Luminaire Tested: **GLEON-SA0A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382625
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-SA0A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42669.5 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

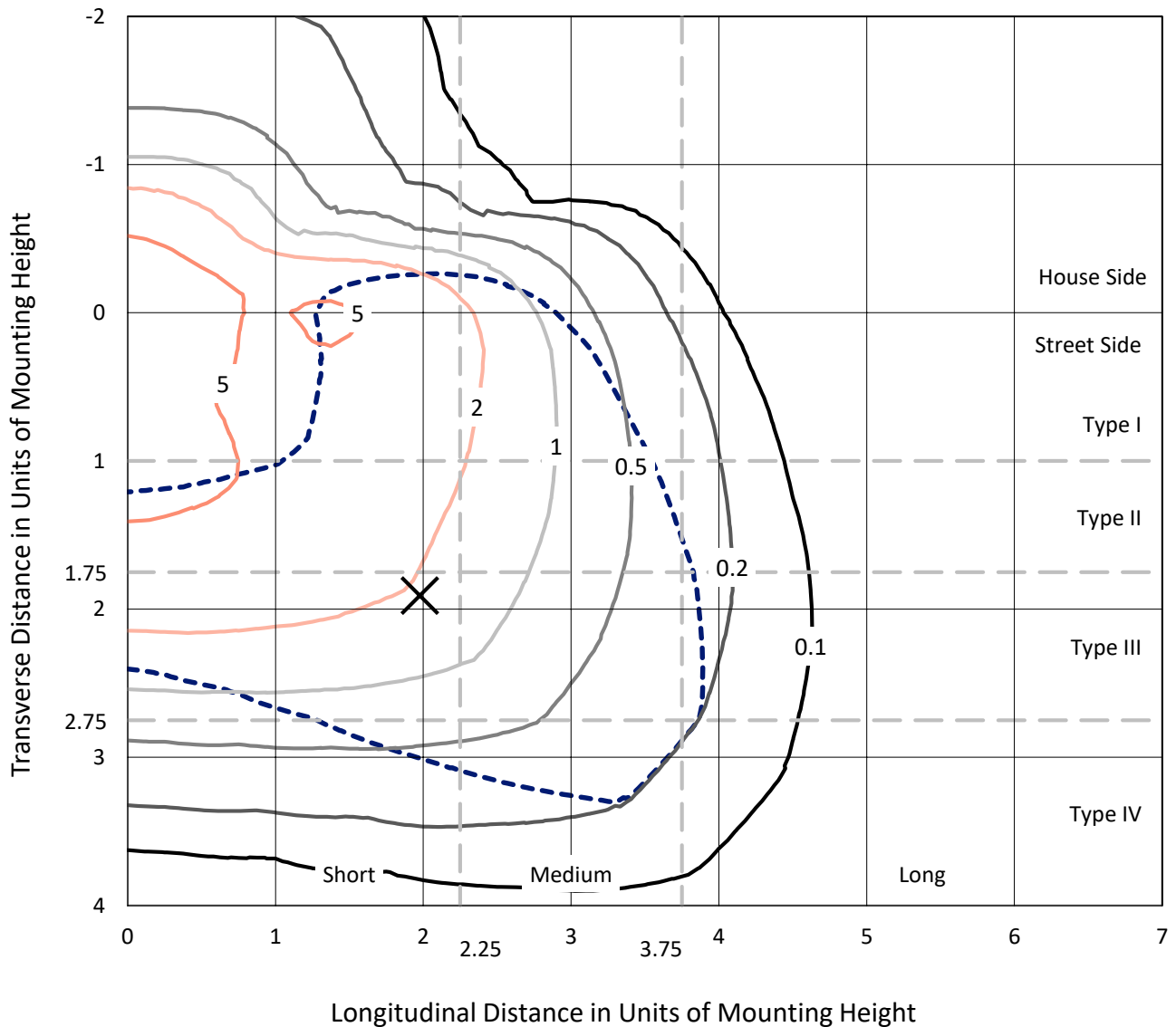
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

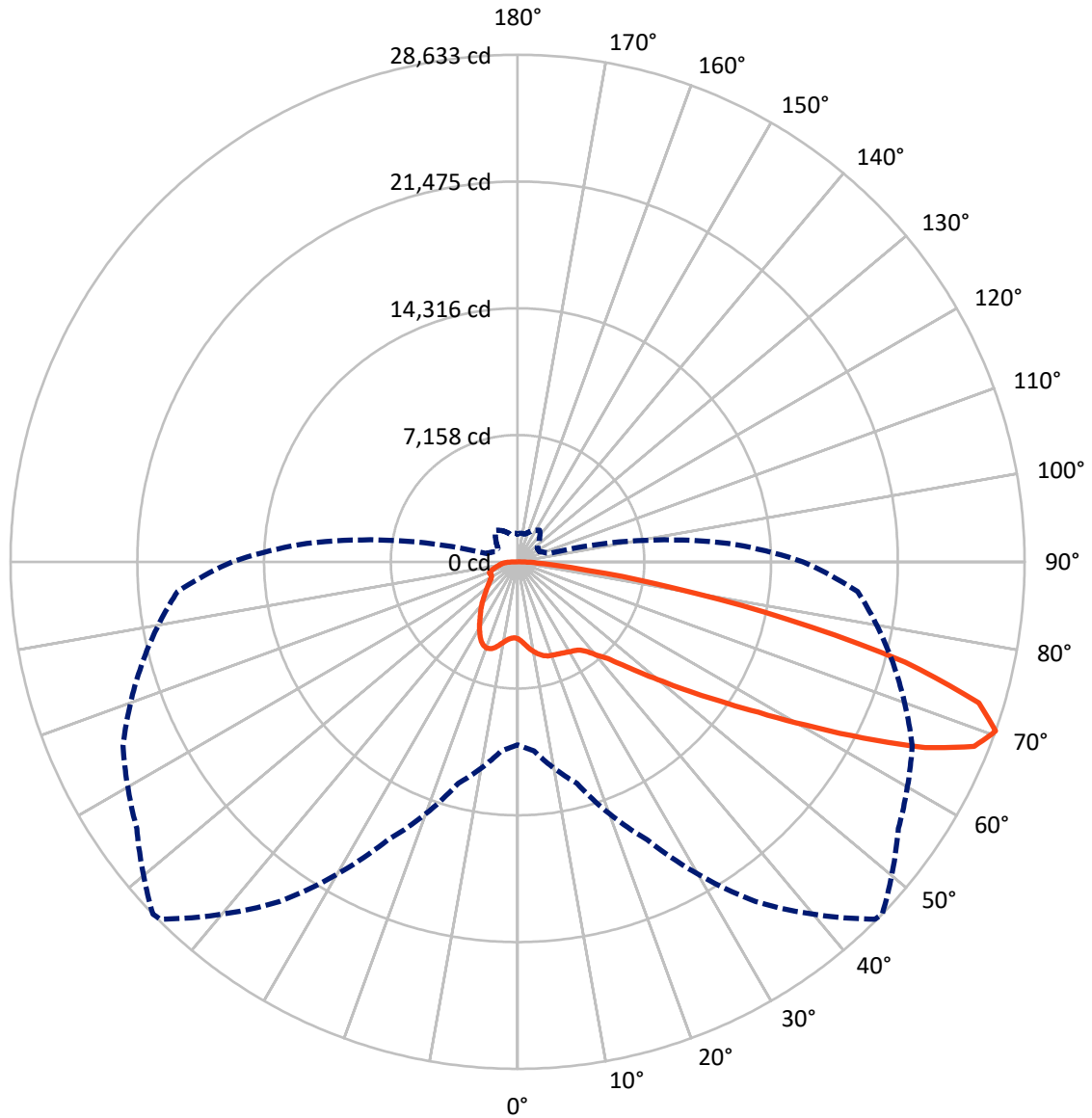
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	9779.7	0.0	9779.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32889.8	0.0	32889.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	42669.5	0.0	42669.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	1.0
10°-20°	1476.5	3.5
20°-30°	2461.9	5.8
30°-40°	3493.6	8.2
40°-50°	5138.8	12.0
50°-60°	8702.6	20.4
60°-70°	12353.2	29.0
70°-80°	7504.7	17.6
80°-90°	1095.2	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°	42669.5	100.0
0°-180°	42669.5	100.0

Coefficient of Utilization

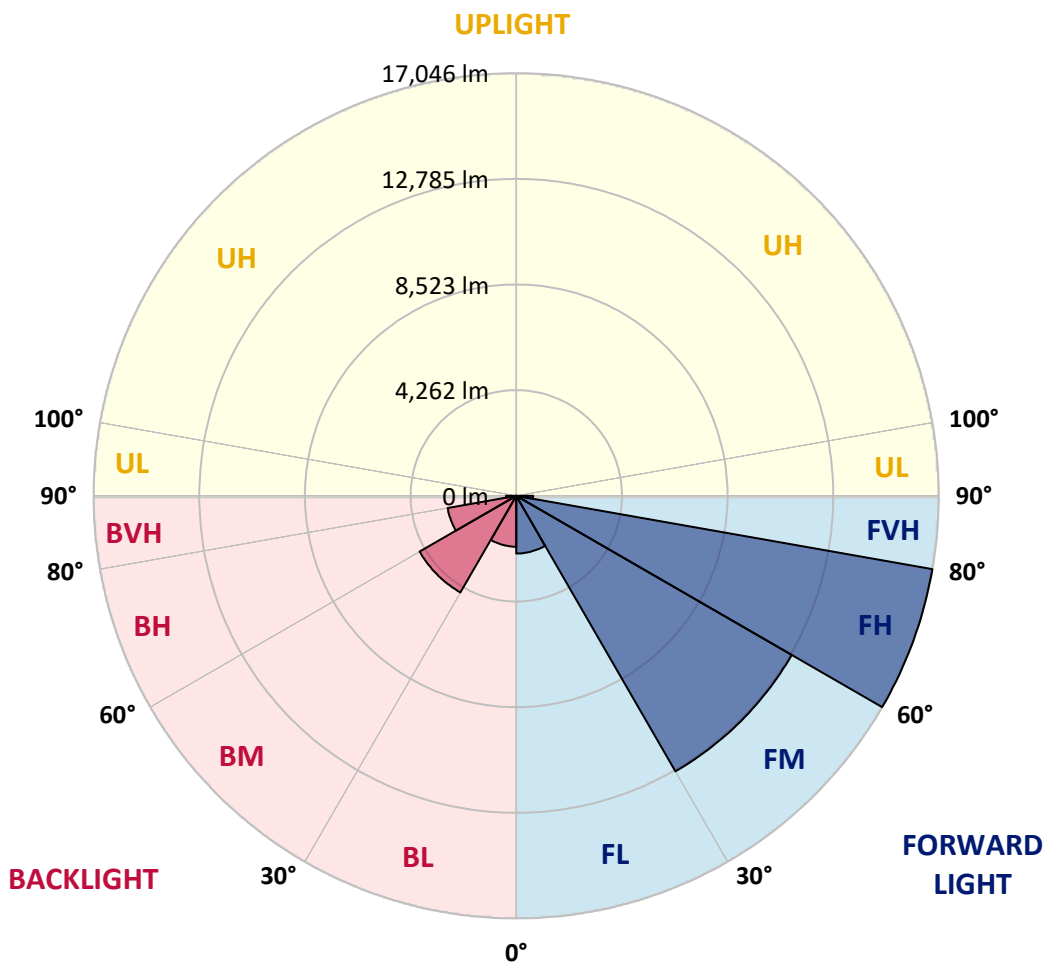


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2328.2	5.5			
FM	(30°-60°)	12833.1	30.1			
FH	(60°-80°)	17046.2	39.9			G5
FVH	(80°-90°)	682.2	1.6			G4/750
BL	(0°-30°)	2053.3	4.8	B3/2500		
BM	(30°-60°)	4501.9	10.6	B3/5000		
BH	(60°-80°)	2811.6	6.6	B4/5000		G4/5000
BVH	(80°-90°)	413.0	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°	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2
2.5°	4564.8	4567.7	4573.5	4558.9	4518.0	4506.4	4502.0	4459.6	4431.9	4391.0	4355.9
5°	4929.8	4932.7	4924.0	4883.1	4792.5	4725.4	4719.6	4623.2	4535.5	4442.1	4372.0
7.5°	5310.9	5315.3	5287.6	5210.2	5083.2	4966.4	4959.0	4827.7	4694.7	4553.1	4448.0
10°	5648.3	5630.7	5585.5	5477.4	5327.1	5183.9	5178.1	5040.8	4887.5	4716.6	4576.4
12.5°	5873.1	5858.6	5800.2	5668.7	5503.7	5372.3	5360.6	5233.5	5084.7	4897.7	4729.7
15°	5997.3	6007.6	5928.6	5779.7	5619.1	5508.1	5497.9	5407.4	5274.4	5086.1	4893.3
17.5°	6013.3	6022.1	5946.2	5798.7	5667.3	5591.3	5587.0	5527.1	5430.7	5249.6	5048.1
20°	5919.9	5925.8	5863.0	5741.8	5655.6	5632.2	5630.7	5604.5	5532.9	5372.3	5176.6
22.5°	5784.1	5788.5	5743.2	5655.6	5626.4	5662.9	5673.1	5662.9	5611.7	5461.4	5277.4
25°	5750.5	5747.6	5700.9	5611.7	5636.6	5714.0	5727.2	5731.5	5696.5	5565.1	5405.9
27.5°	5912.6	5902.4	5813.3	5670.1	5686.3	5779.7	5797.2	5839.6	5817.7	5702.3	5551.9
30°	6381.3	6363.8	6181.3	5892.1	5813.3	5861.5	5883.4	5950.5	5954.9	5858.6	5746.2
32.5°	7172.8	7150.9	6823.8	6306.9	6028.0	5944.7	5965.2	6066.0	6120.0	6045.5	5924.3
35°	8173.0	8148.2	7718.9	7012.1	6387.2	6103.9	6118.5	6198.8	6306.9	6201.7	6041.1
37.5°	9215.7	9155.8	8742.6	7841.6	6958.1	6444.2	6444.2	6454.3	6505.5	6286.5	6178.4
40°	10252.5	10192.6	9818.8	8817.0	7697.0	6980.0	6946.5	6720.1	6679.2	6490.8	6454.3
42.5°	11216.2	11198.7	10978.2	9919.6	8564.5	7507.2	7460.5	7076.4	7085.2	6968.3	6969.8
45°	12241.4	12241.4	12061.8	11032.2	9574.9	8354.1	8307.4	7742.3	7829.9	7775.9	7905.9
47.5°	13078.1	13104.4	13079.6	12191.7	10750.4	9430.3	9345.7	8665.2	8910.5	9095.9	9474.1
50°	13932.3	13973.2	13977.6	13463.6	12171.2	10709.5	10613.1	9890.3	10437.9	10969.4	11712.7
52.5°	15172.1	15264.1	14897.6	14732.5	13911.9	12228.2	12133.3	11466.0	12380.1	13126.3	14406.9
55°	16321.3	16241.0	15979.6	16081.9	15775.2	13957.2	13885.6	13300.1	14544.2	15513.8	17177.0
57.5°	16943.4	16937.6	17200.4	17638.5	17784.5	16089.1	16029.2	15459.8	16984.3	17712.9	19777.8
60°	17673.5	17683.8	18335.0	19329.4	19931.1	18743.9	18717.6	18285.3	19354.3	19766.0	21817.7
62.5°	17775.7	17959.7	19081.2	20792.6	21940.4	21845.4	21903.9	20830.6	21474.6	21404.4	23340.8
65°	16600.2	16842.7	18872.4	21235.1	23938.0	25237.7	25291.7	23390.4	23146.5	22804.8	23885.4
67.5°	14190.8	14550.0	16755.0	20272.8	24596.6	27744.9	27820.9	25374.9	24533.8	23279.5	22574.1
70°	10327.0	10725.6	12945.2	17314.3	23422.6	28546.6	28632.8	26252.5	24586.3	21928.7	19271.0
72.5°	6238.2	6550.7	8380.4	12746.6	19769.0	27086.3	27239.7	25139.9	22447.1	18574.5	14230.2
75°	2739.4	2943.9	4052.2	7345.1	14152.8	22410.6	22601.9	21518.4	18238.7	13498.6	8411.1
77.5°	1166.8	1225.2	1661.8	3190.6	8000.8	15313.7	15576.6	15722.6	12374.2	7345.1	3554.2
80°	727.2	750.5	940.4	1444.2	3744.1	8600.9	8884.2	9250.7	6144.8	2700.0	1241.2
82.5°	442.5	468.8	625.0	873.2	1949.4	3898.9	4034.7	4293.1	2384.6	1166.8	642.5
85°	265.8	284.8	382.6	551.9	1109.8	1533.2	1531.8	1693.9	1123.0	750.5	338.8
87.5°	127.1	141.7	204.5	286.2	559.3	575.3	538.8	610.3	682.0	492.1	170.8
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°	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2	4347.2
2.5°	4344.3	4338.4	4319.4	4304.9	4301.9	4293.1	4285.9	4290.2	4296.1	4297.5	4297.5
5°	4342.8	4326.8	4301.9	4291.7	4304.9	4322.4	4344.3	4373.4	4391.0	4404.2	4412.9
7.5°	4412.9	4382.3	4354.5	4348.7	4374.9	4421.7	4471.3	4532.6	4575.0	4604.2	4610.0
10°	4529.7	4491.7	4464.0	4469.8	4516.6	4583.8	4653.8	4732.7	4796.9	4836.4	4839.3
12.5°	4664.1	4627.6	4601.3	4626.1	4703.5	4785.3	4858.3	4927.0	4985.4	5024.8	5024.8
15°	4818.9	4792.5	4761.9	4818.9	4924.0	4997.0	5027.7	5061.3	5093.4	5122.6	5116.7
17.5°	4967.8	4943.0	4927.0	4994.1	5103.6	5137.2	5116.7	5091.9	5091.9	5108.0	5110.9
20°	5096.3	5074.4	5084.7	5150.3	5207.3	5172.2	5096.3	5017.4	4985.4	4994.1	5002.9
22.5°	5208.7	5198.5	5229.1	5259.9	5219.0	5096.3	4956.1	4849.5	4810.1	4807.2	4810.1
25°	5340.2	5338.7	5376.7	5321.2	5140.1	4913.7	4725.4	4621.7	4599.8	4617.3	4646.6
27.5°	5503.7	5519.8	5538.8	5335.8	4979.5	4637.8	4446.5	4374.9	4396.8	4439.2	4467.0
30°	5712.5	5756.3	5715.4	5299.3	4748.8	4322.4	4139.8	4119.4	4179.3	4239.1	4268.4
32.5°	5915.5	5984.2	5884.9	5204.4	4450.8	3988.0	3846.4	3840.5	3913.5	3971.9	4012.8
35°	6079.1	6214.8	6011.9	5016.0	4106.3	3679.9	3576.2	3536.7	3563.1	3631.6	3678.4
37.5°	6292.2	6518.6	6099.5	4728.3	3732.4	3425.8	3304.6	3214.0	3190.6	3218.4	3241.8
40°	6682.2	6981.5	6140.4	4326.8	3367.4	3171.6	3049.0	2916.1	2824.2	2757.0	2758.4
42.5°	7318.8	7584.6	6114.1	3839.0	3030.0	2923.5	2784.7	2631.3	2482.5	2330.5	2318.9
45°	8352.7	8481.2	6035.2	3322.1	2733.6	2663.5	2533.5	2380.2	2181.6	2009.3	1993.2
47.5°	10007.2	9722.4	5912.6	2870.8	2472.2	2443.0	2323.3	2146.6	1936.3	1797.6	1785.9
50°	12263.3	11514.1	5852.7	2511.6	2241.5	2250.2	2152.4	1965.5	1767.0	1664.7	1653.0
52.5°	14961.8	13600.9	5968.1	2234.2	2056.0	2086.7	2013.7	1838.5	1672.0	1591.6	1580.0
55°	17761.2	15762.1	6092.2	2032.6	1880.8	1940.7	1915.8	1771.3	1620.9	1546.4	1536.2
57.5°	20157.4	17375.6	5844.0	1869.2	1724.6	1818.0	1839.9	1729.0	1594.6	1527.5	1515.7
60°	21665.8	18025.4	5192.7	1715.8	1600.4	1720.2	1796.1	1717.3	1604.9	1599.0	1590.2
62.5°	22381.4	17968.5	4215.8	1594.6	1523.1	1677.8	1828.3	1783.0	1721.7	1774.2	1778.6
65°	22060.2	17109.8	3139.6	1514.3	1467.6	1693.9	1924.6	1907.1	1755.2	1807.8	1815.1
67.5°	19945.6	15061.1	2324.8	1444.2	1406.3	1739.2	2099.9	1948.0	1689.5	1727.5	1704.1
70°	16121.3	11940.6	1793.2	1365.4	1343.5	1733.3	2178.7	1923.2	1618.0	1626.8	1564.0
72.5°	11117.0	8142.4	1458.8	1292.3	1252.9	1580.0	2123.2	1861.8	1558.1	1490.9	1407.7
75°	6045.5	4370.5	1239.8	1216.4	1093.7	1387.3	2021.0	1818.0	1504.1	1415.0	1368.3
77.5°	2378.8	1813.6	1076.2	1112.7	956.5	1225.2	1907.1	1734.8	1429.6	1312.7	1289.4
80°	971.0	925.8	892.2	962.3	822.1	1071.8	1769.8	1636.9	1340.5	1217.8	1171.1
82.5°	550.5	575.3	693.6	759.3	667.4	987.2	1704.1	1558.1	1233.9	1090.8	1035.3
85°	281.8	337.3	483.4	544.7	490.6	839.6	1569.8	1363.9	990.0	835.2	839.6
87.5°	135.8	188.4	305.2	341.7	318.3	607.5	1172.6	988.6	771.0	610.3	591.4
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)