

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: P192375

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 41809 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

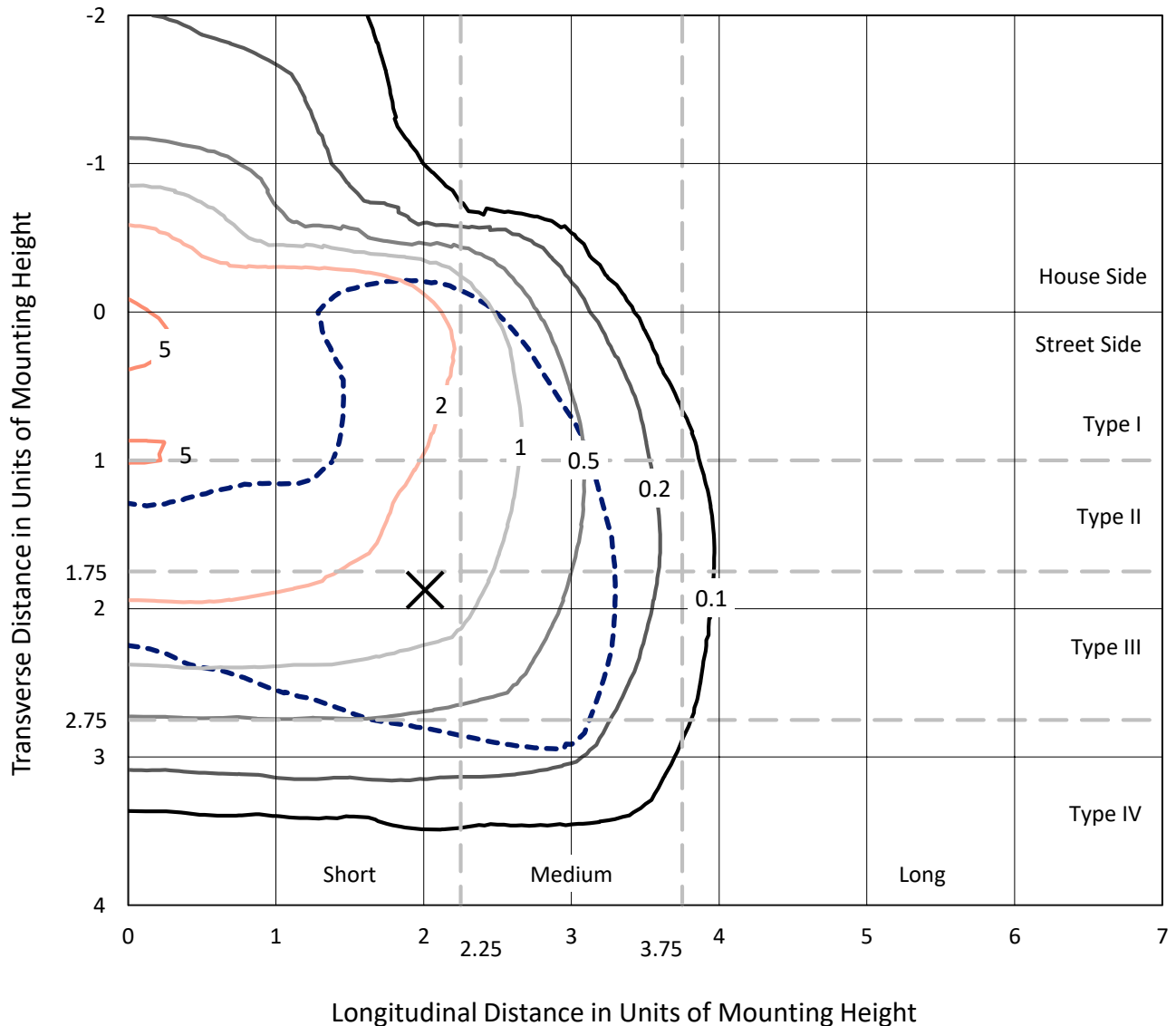
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

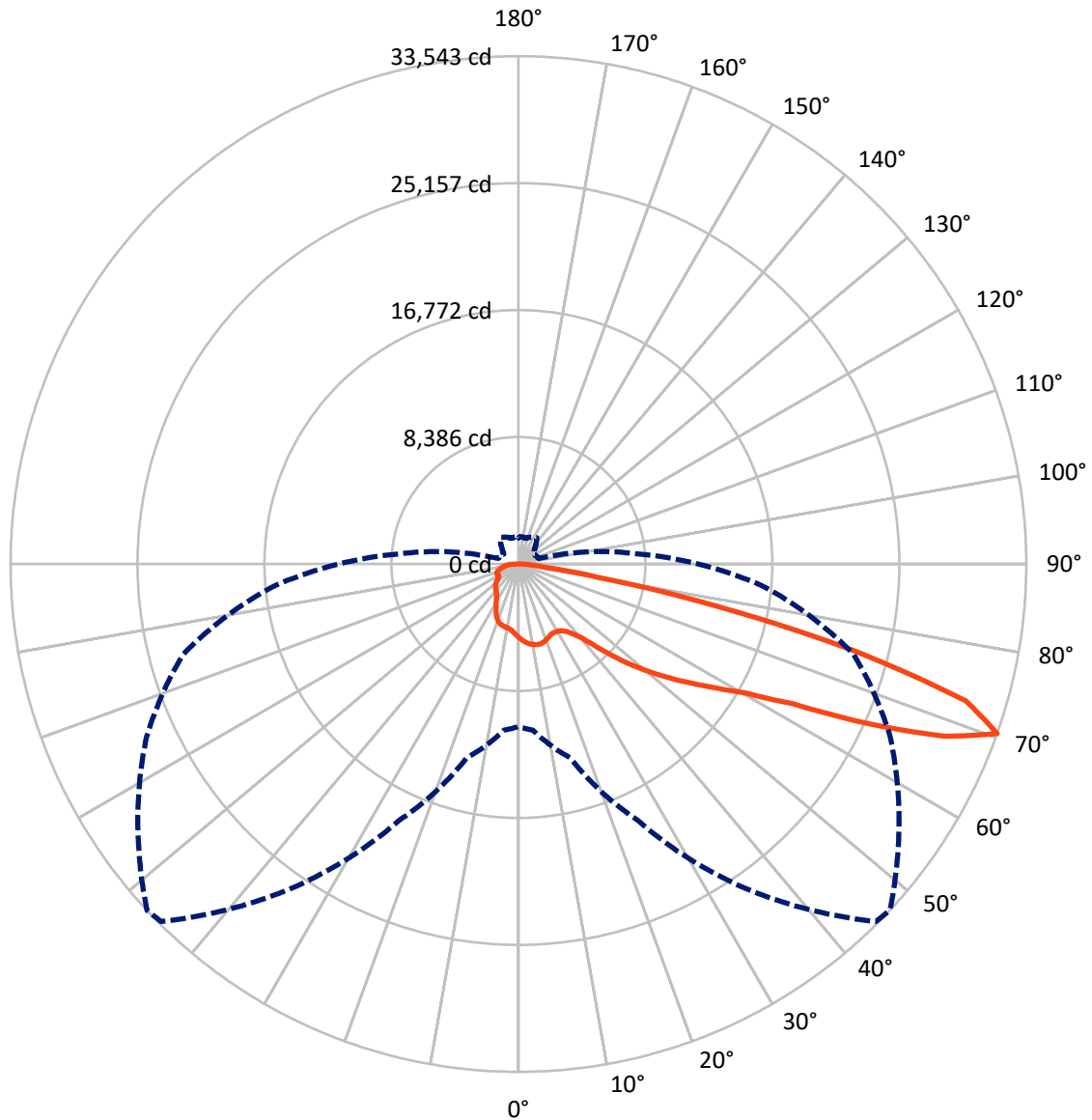
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8722.2	0.0	8722.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	33086.8	0.0	33086.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	41809.0	0.0	41809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.8	1.1
10°-20°	1363.7	3.3
20°-30°	2013.8	4.8
30°-40°	2927.0	7.0
40°-50°	5267.5	12.6
50°-60°	9125.4	21.8
60°-70°	13024.6	31.2
70°-80°	6686.1	16.0
80°-90°	936.1	2.2
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°	41809.0	100.0
0°-180°	41809.0	100.0

Coefficient of Utilization



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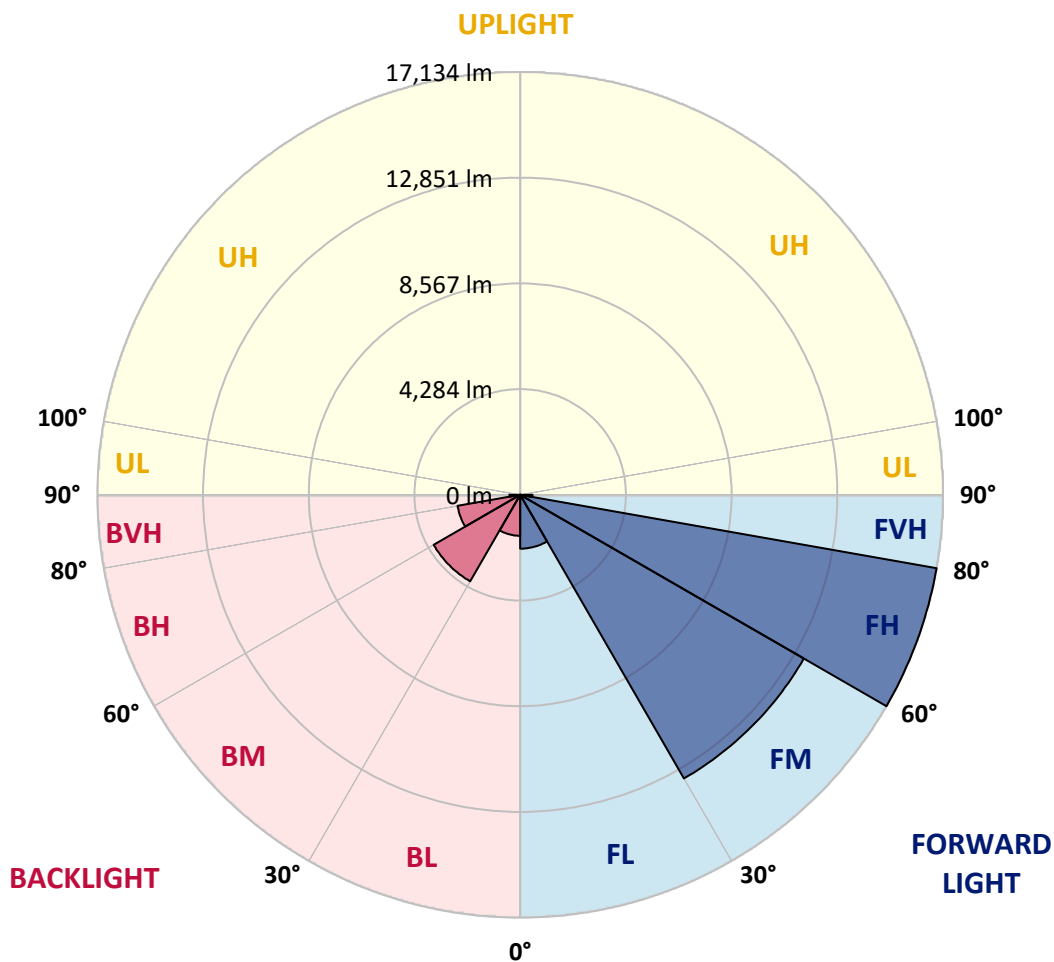
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2181.5	5.2			
FM	(30°-60°)	13271.4	31.7			
FH	(60°-80°)	17134.5	41.0			G5
FVH	(80°-90°)	499.5	1.2			G3/500
BL	(0°-30°)	1660.8	4.0	B3/2500		
BM	(30°-60°)	4048.6	9.7	B3/5000		
BH	(60°-80°)	2576.3	6.2	B4/5000		G4/5000
BVH	(80°-90°)	436.6	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°	47°	55°	65°	75°	85°
0°	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1
2.5°	5135.9	5125.7	5121.7	5113.5	5103.4	5052.5	5042.3	5005.7	4954.9	4902.0	4847.1
5°	5473.6	5471.5	5449.1	5408.5	5343.4	5231.5	5205.1	5115.6	4995.6	4879.6	4763.7
7.5°	5770.5	5752.2	5709.5	5628.1	5514.2	5361.7	5325.1	5201.0	5036.2	4877.6	4721.0
10°	5988.2	5978.0	5884.4	5772.6	5624.1	5455.3	5412.5	5274.2	5093.2	4891.8	4696.6
12.5°	6112.2	6091.9	5984.1	5849.9	5672.9	5508.1	5465.4	5325.1	5121.7	4891.8	4662.0
15°	6104.1	6089.9	5982.1	5835.6	5656.6	5512.2	5473.6	5333.2	5115.6	4871.5	4617.2
17.5°	5941.4	5947.5	5856.0	5711.5	5565.1	5455.3	5420.7	5290.5	5074.9	4830.8	4564.3
20°	5656.6	5685.1	5624.1	5495.9	5414.6	5339.3	5316.9	5207.1	5011.8	4771.8	4507.4
22.5°	5371.9	5398.3	5373.9	5266.1	5253.9	5209.1	5196.9	5117.6	4956.9	4735.2	4472.8
25°	5162.4	5186.8	5182.7	5089.1	5125.7	5123.7	5113.5	5074.9	4944.7	4735.2	4478.9
27.5°	5105.4	5113.5	5105.4	5020.0	5070.8	5111.5	5103.4	5097.3	4981.3	4794.2	4556.2
30°	5300.7	5288.5	5225.4	5052.5	5099.3	5156.2	5148.1	5152.2	5091.2	4948.8	4729.1
32.5°	6079.7	6024.8	5825.4	5339.3	5215.2	5245.7	5249.8	5316.9	5327.1	5186.8	4997.6
35°	7245.2	7184.2	6925.8	6108.2	5575.3	5469.5	5469.5	5571.2	5632.2	5528.5	5414.6
37.5°	8479.8	8412.7	8274.4	7174.0	6331.9	5858.0	5847.8	5919.0	6006.5	6030.9	6059.4
40°	9883.3	9812.1	9850.8	8370.0	7387.6	6531.2	6386.8	6336.0	6571.9	6728.5	6956.4
42.5°	11419.0	11386.5	11400.7	9702.3	8589.7	7538.1	7332.7	7070.3	7355.0	7633.7	8111.7
45°	12840.8	12869.3	12855.0	11128.1	9928.1	8766.6	8549.0	8040.5	8319.2	8797.2	9576.2
47.5°	14085.6	13967.6	14150.7	12686.2	11427.1	10141.6	9873.1	9191.8	9474.5	10064.3	11382.4
50°	15596.9	15580.6	15312.1	14765.0	13239.5	11522.7	11170.9	10381.7	10821.0	11640.7	13658.5
52.5°	17185.5	16890.5	16644.4	16382.0	15161.6	12938.4	12507.2	11567.5	12403.5	13434.7	16432.9
55°	17510.9	17378.7	17683.8	18125.2	17014.6	14409.0	13906.6	13054.4	14185.3	15485.0	19632.4
57.5°	18206.5	18204.5	18835.1	19622.2	18922.5	15969.1	15462.6	14850.4	16188.8	17834.3	23029.2
60°	18676.4	18808.6	19980.2	21507.8	20795.9	17771.3	17305.5	16923.1	18466.9	20460.2	26194.2
62.5°	18922.5	19101.5	20700.3	22272.6	23444.2	20771.4	20305.7	19754.4	21481.3	23340.4	28045.1
65°	17899.4	18251.3	20588.4	22933.6	25762.9	25634.8	25425.3	24457.1	25250.4	25616.5	27375.9
67.5°	15068.0	15428.1	18149.6	22317.3	27418.6	30325.3	30370.0	28716.3	27569.2	25811.8	23017.0
70°	10735.6	11018.3	13270.0	18711.0	26157.5	33390.5	33543.1	30679.2	27107.4	22890.9	16081.0
72.5°	5097.3	5270.2	7401.8	12177.7	20757.2	30593.7	30888.7	28173.3	23049.6	16947.5	8772.7
75°	1873.3	1926.2	2501.8	5180.7	12039.4	22561.4	22909.2	20195.8	15279.6	8437.1	3341.9
77.5°	1122.8	1157.4	1403.5	2186.6	4735.2	12895.7	13410.3	10983.7	6677.7	3140.5	1643.5
80°	785.1	809.5	1006.8	1360.8	2237.4	4914.2	5371.9	4483.0	2660.5	1987.2	1196.0
82.5°	530.9	543.1	707.8	919.4	1486.9	1755.4	1893.7	1993.3	1794.0	1478.7	758.7
85°	347.8	360.0	480.0	606.1	945.8	907.2	927.5	1173.6	1309.9	1004.8	421.0
87.5°	199.3	207.5	288.8	323.4	463.8	384.4	388.5	618.3	838.0	677.3	256.3
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°	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1	4851.1
2.5°	4832.8	4806.4	4747.4	4710.8	4676.2	4668.1	4653.8	4651.8	4649.8	4649.8	4643.7
5°	4725.0	4680.3	4588.8	4537.9	4495.2	4491.1	4489.1	4499.3	4503.3	4507.4	4501.3
7.5°	4655.9	4594.9	4481.0	4407.7	4356.9	4344.7	4365.0	4411.8	4442.3	4454.5	4448.4
10°	4613.2	4537.9	4405.7	4326.4	4283.7	4277.6	4304.0	4358.9	4422.0	4446.4	4444.3
12.5°	4564.3	4478.9	4338.6	4255.2	4230.8	4243.0	4277.6	4328.4	4393.5	4432.1	4434.2
15°	4515.5	4415.9	4271.4	4198.2	4188.1	4204.3	4236.9	4275.5	4326.4	4365.0	4369.1
17.5°	4456.5	4352.8	4208.4	4133.1	4125.0	4133.1	4135.2	4155.5	4188.1	4224.7	4234.8
20°	4393.5	4287.7	4137.2	4061.9	4025.3	3992.8	3956.2	3960.2	3970.4	4007.0	4015.2
22.5°	4348.7	4243.0	4082.3	3978.5	3880.9	3783.3	3710.1	3699.9	3704.0	3734.5	3744.6
25°	4352.8	4240.9	4068.0	3889.1	3675.5	3518.9	3421.2	3405.0	3402.9	3425.3	3439.5
27.5°	4432.1	4320.3	4120.9	3797.5	3451.7	3219.9	3116.1	3103.9	3087.6	3093.7	3110.0
30°	4609.1	4505.4	4249.1	3704.0	3209.7	2927.0	2819.2	2807.0	2784.6	2774.4	2786.6
32.5°	4897.9	4812.5	4436.2	3614.5	2967.6	2676.8	2566.9	2540.5	2526.3	2514.1	2524.2
35°	5378.0	5341.3	4686.4	3516.8	2754.1	2483.5	2383.9	2343.2	2322.9	2345.2	2361.5
37.5°	6130.5	6150.9	5013.9	3364.3	2589.3	2355.4	2272.0	2225.2	2194.7	2213.0	2231.3
40°	7196.4	7210.6	5375.9	3148.7	2446.9	2280.1	2190.6	2147.9	2105.2	2072.7	2070.6
42.5°	8595.8	8451.4	5731.9	2914.8	2282.2	2233.4	2133.7	2080.8	2015.7	1926.2	1907.9
45°	10255.5	9749.1	6002.4	2646.3	2097.1	2176.4	2070.6	1997.4	1895.7	1798.1	1787.9
47.5°	12167.5	11142.4	6134.6	2367.6	1924.2	2093.0	1993.3	1877.4	1749.3	1700.4	1694.3
50°	14502.6	12796.0	6197.7	2097.1	1773.7	1983.2	1881.5	1745.2	1637.4	1627.2	1621.1
52.5°	17161.1	14785.3	6218.0	1875.4	1649.6	1840.8	1789.9	1657.7	1572.3	1580.4	1580.4
55°	19943.6	16839.7	5941.4	1714.7	1535.7	1694.3	1728.9	1623.2	1552.0	1584.5	1596.7
57.5°	22498.3	18660.1	5070.8	1590.6	1427.9	1582.5	1706.5	1655.7	1606.9	1739.1	1747.2
60°	24459.1	19736.1	3787.4	1478.7	1348.6	1543.8	1765.5	1779.8	1792.0	2107.2	2150.0
62.5°	24870.0	19378.1	2603.5	1391.3	1311.9	1576.4	1873.3	1875.4	1861.1	2080.8	2107.2
65°	22984.5	17114.3	1893.7	1342.5	1281.4	1635.4	1964.9	1922.2	1828.6	1995.4	1946.6
67.5°	18253.3	12893.7	1576.4	1305.8	1236.7	1631.3	2062.5	1964.9	1810.3	1954.7	1875.4
70°	11848.2	7796.4	1403.5	1275.3	1183.8	1554.0	2119.5	1960.8	1757.4	1818.4	1724.9
72.5°	5780.7	3486.3	1287.5	1230.6	1128.9	1446.2	2117.4	1924.2	1702.5	1698.4	1647.6
75°	2261.8	1596.7	1181.8	1163.5	1035.3	1324.1	2060.5	1871.3	1637.4	1572.3	1554.0
77.5°	1324.1	1139.1	1047.5	1063.8	923.4	1202.1	1977.1	1779.8	1547.9	1470.6	1450.3
80°	964.1	852.3	892.9	919.4	789.2	1080.1	1865.2	1667.9	1448.2	1486.9	1458.4
82.5°	618.3	549.2	724.1	750.6	657.0	956.0	1743.2	1549.9	1307.9	1187.9	1159.4
85°	315.3	347.8	539.0	571.6	506.5	785.1	1594.7	1393.3	1149.2	988.5	1004.8
87.5°	177.0	238.0	343.7	384.4	358.0	604.1	1293.6	1149.2	937.7	762.8	671.2
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)