

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: P194067

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-T4FT-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35294 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 374  
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

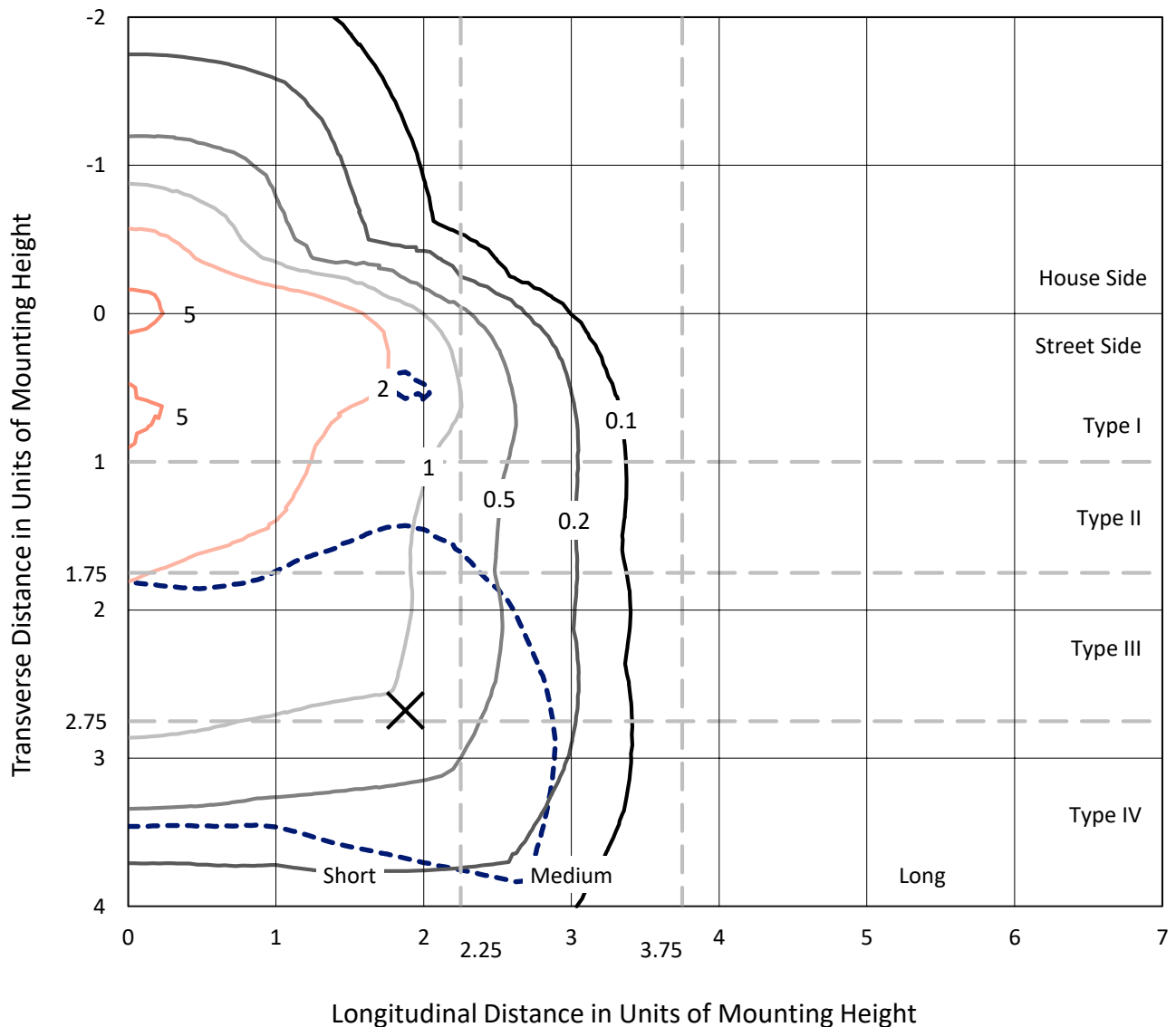


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

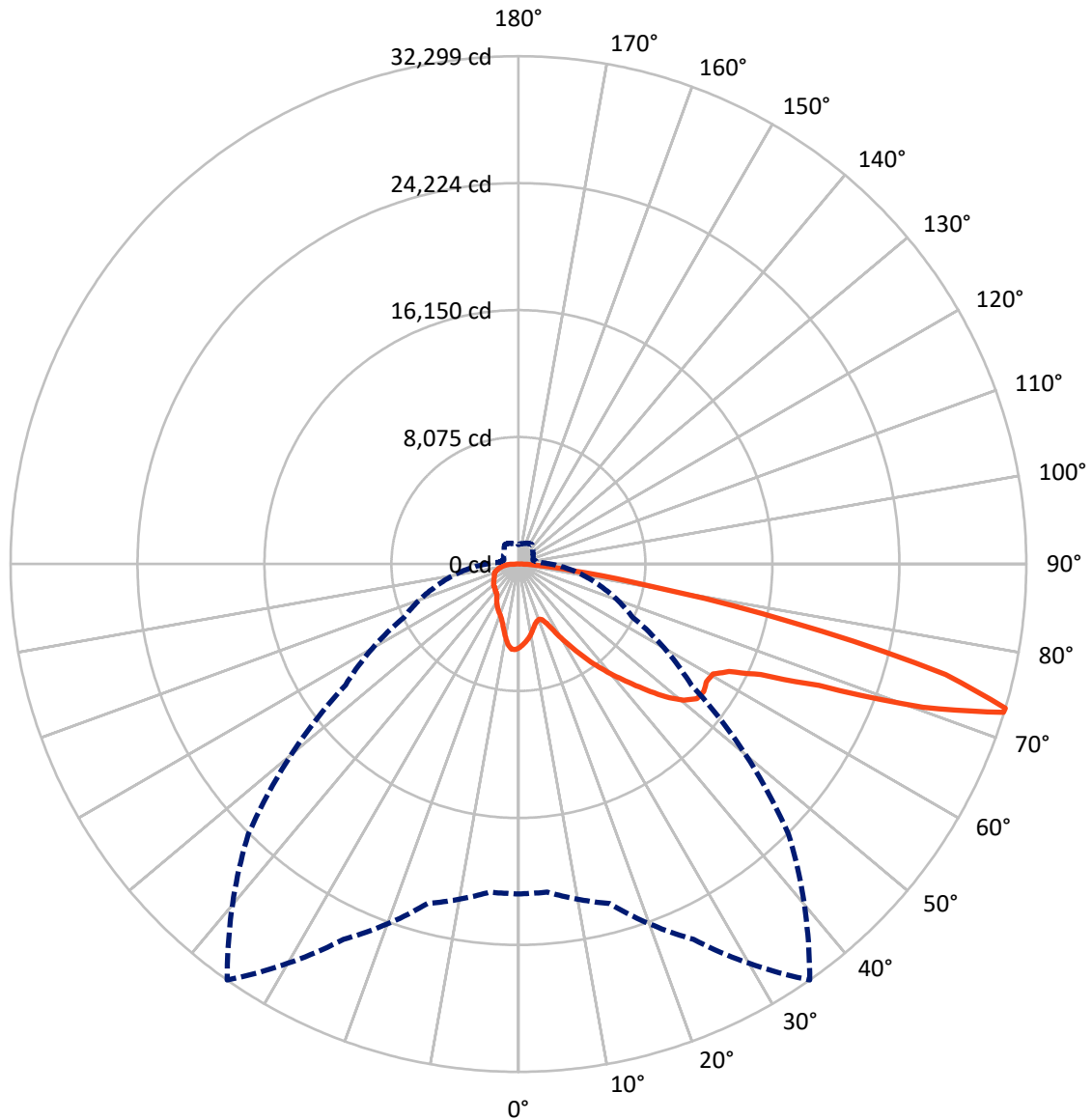


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6731.5	0.0	6731.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	28562.5	0.0	28562.5
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	35294.0	0.0	35294.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.2	1.4
10°-20°	1203.6	3.4
20°-30°	1945.8	5.5
30°-40°	3262.8	9.2
40°-50°	5029.5	14.3
50°-60°	6747.6	19.1
60°-70°	8989.2	25.5
70°-80°	6856.0	19.4
80°-90°	777.1	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°	35294.0	100.0
0°-180°	35294.0	100.0



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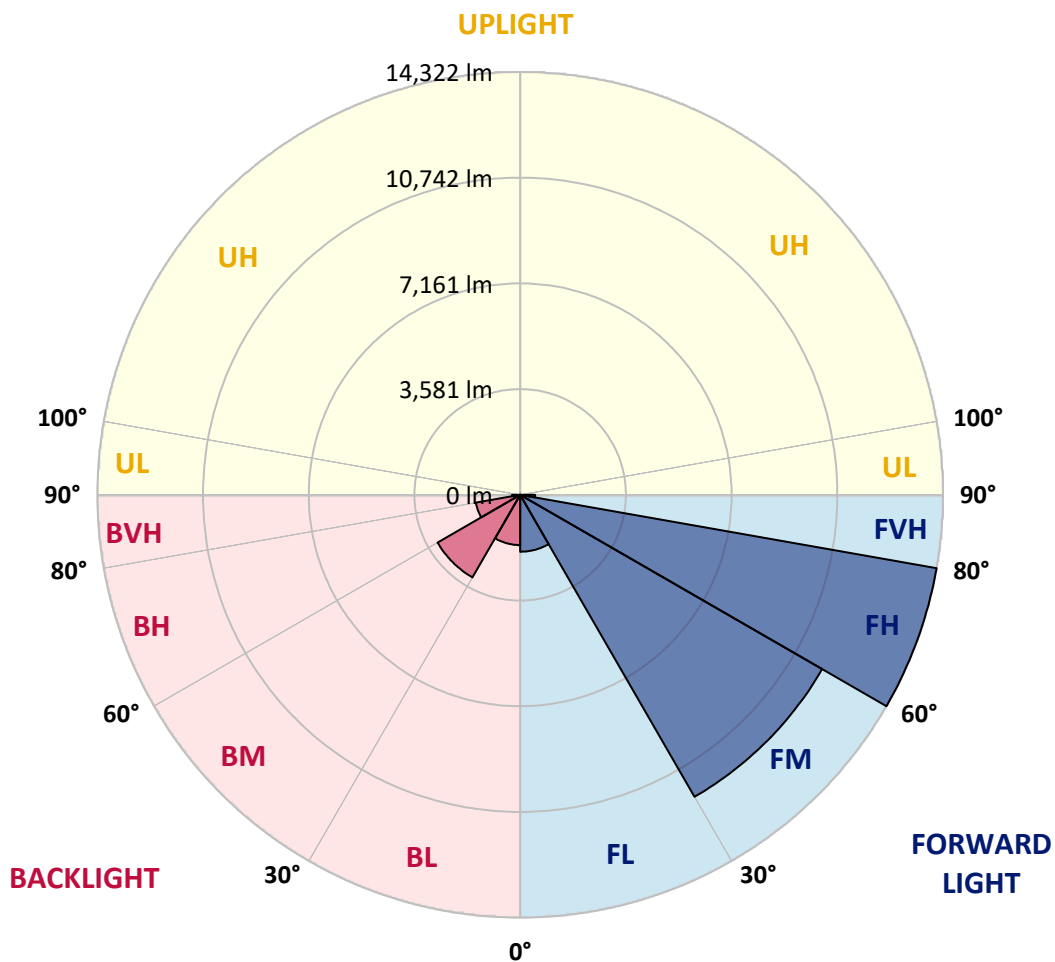
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1928.2	5.5			
FM	(30°-60°)	11809.6	33.5			
FH	(60°-80°)	14322.3	40.6			G5
FVH	(80°-90°)	502.3	1.4			G4/750
BL	(0°-30°)	1703.4	4.8	B3/2500		
BM	(30°-60°)	3230.4	9.2	B3/5000		
BH	(60°-80°)	1523.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	274.8	0.8			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°	55°	65°	75°	85°	90°
0°	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0
2.5°	5116.8	5127.0	5115.1	5130.4	5155.8	5182.9	5201.5	5228.7	5259.2	5301.5	5311.7
5°	4876.1	4891.4	4891.4	4918.5	4967.6	5011.7	5052.4	5096.5	5160.9	5233.7	5262.6
7.5°	4611.7	4620.2	4635.5	4676.1	4747.3	4810.0	4867.7	4938.8	5027.0	5123.6	5174.4
10°	4293.1	4305.0	4328.7	4386.3	4482.9	4569.4	4652.4	4750.7	4862.6	4982.9	5047.3
12.5°	4067.7	4064.3	4074.5	4116.8	4201.6	4306.7	4427.0	4552.4	4689.7	4830.4	4908.3
15°	3991.4	3972.8	3933.8	3923.6	3969.4	4074.5	4213.4	4367.7	4532.1	4701.6	4798.2
17.5°	4038.9	4006.7	3899.9	3821.9	3815.1	3894.8	4042.3	4215.1	4405.0	4611.7	4732.1
20°	4337.2	4260.9	3998.2	3816.8	3754.1	3793.1	3921.9	4105.0	4328.7	4603.3	4757.5
22.5°	5050.7	4938.8	4381.2	4043.9	3832.1	3784.6	3881.2	4076.2	4337.2	4708.3	4904.9
25°	6089.7	5930.3	5038.8	4610.0	4172.8	3920.2	3942.3	4142.3	4457.5	4952.4	5189.7
27.5°	6910.0	6806.6	5898.1	5408.3	4793.1	4286.3	4140.6	4308.3	4703.3	5352.4	5594.7
30°	7398.1	7335.4	6816.7	6313.4	5584.6	4869.3	4520.2	4620.2	5088.0	5906.6	6106.6
32.5°	7964.2	7926.9	7672.7	7210.0	6438.8	5635.4	5121.9	5086.3	5603.2	6572.7	6664.2
35°	8550.6	8538.7	8389.6	8057.4	7355.7	6645.6	5920.2	5679.5	6164.2	7264.2	7206.6
37.5°	9096.3	9076.0	8989.6	8796.3	8315.0	7730.3	6733.7	6287.9	6769.3	7925.2	7669.3
40°	10101.4	9942.1	9645.5	9499.7	9284.5	8643.8	7379.4	6855.7	7396.4	8555.7	8069.3
42.5°	11326.8	11067.5	10514.9	10314.9	10284.4	9364.1	7820.1	7406.6	8028.6	9181.1	8462.5
45°	12291.2	12047.1	11570.8	11318.3	11430.2	10016.7	8262.5	7994.7	8679.4	9837.0	8867.5
47.5°	13319.9	12936.9	12306.4	12382.7	12626.7	10633.6	8713.3	8626.9	9392.9	10570.9	9370.9
50°	13357.2	13064.0	12787.8	13243.7	13623.3	11201.4	9277.7	9289.6	10265.8	11494.6	10040.4
52.5°	12582.7	12520.0	12958.9	13675.9	14223.3	11650.5	9920.0	9974.3	11382.7	12555.6	10776.0
55°	12311.5	12240.3	12747.1	13525.0	14304.7	12021.7	10616.6	10714.9	12733.5	13674.2	11492.9
57.5°	12972.5	12814.9	12848.8	13453.8	14106.4	12428.4	11375.9	11574.2	14201.3	14652.1	11953.9
60°	14819.9	14482.6	13842.0	13826.7	14213.1	13038.6	12253.9	12496.2	15726.7	15119.9	11774.2
62.5°	17411.3	17074.1	15874.1	15092.8	15035.1	14045.3	13331.8	13396.2	16608.0	14486.0	10677.7
65°	20216.4	19914.7	18574.0	17470.7	16938.5	15713.1	14584.3	13797.9	16319.9	12742.0	8759.1
67.5°	23621.3	23297.6	22145.1	21126.5	20614.6	18404.5	15463.9	13413.2	14491.1	9870.9	6296.4
70°	26002.6	25672.1	25217.9	26043.3	27295.8	22287.5	15577.5	11848.8	10823.4	6560.8	3789.7
72.5°	22895.9	22741.7	23570.5	27046.7	32263.5	24643.3	14080.9	8626.9	6286.3	3482.9	2193.2
73°	20977.3	20943.4	22357.0	26343.3	32299.0	24280.6	13425.0	8018.4	5391.4	3081.3	2005.0
75°	9472.6	9745.5	12843.7	20121.4	28061.9	20007.9	9448.9	4599.9	3045.7	2128.8	1513.5
77.5°	2276.2	2371.1	4018.5	9555.6	17721.5	11923.4	4281.2	2274.5	1947.4	1503.3	1105.1
80°	969.5	1001.7	1547.4	3530.4	8343.8	4801.6	1972.8	1523.7	1347.4	1049.1	774.6
82.5°	539.0	572.9	877.9	1601.6	3367.7	1637.2	1203.4	1061.0	886.4	632.2	503.4
85°	305.1	323.7	513.5	894.9	1427.1	657.6	720.3	705.1	500.0	325.4	247.5
87.5°	144.1	155.9	247.5	415.2	559.3	257.6	366.1	403.4	313.6	198.3	128.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0	5327.0
2.5°	5323.6	5354.1	5389.7	5408.3	5425.3	5445.6	5465.9	5465.9	5469.3	5471.0
5°	5286.3	5349.0	5404.9	5428.7	5433.7	5433.7	5428.7	5401.5	5377.8	5388.0
7.5°	5208.3	5299.8	5347.3	5338.8	5274.4	5199.8	5137.1	5060.9	5021.9	5015.1
10°	5096.5	5201.5	5210.0	5125.3	4966.0	4806.6	4674.4	4545.6	4484.6	4469.4
12.5°	4972.7	5069.3	5015.1	4840.5	4584.6	4352.4	4184.6	4054.1	3996.5	3981.2
15°	4872.7	4938.8	4801.6	4527.0	4205.0	3959.2	3820.2	3723.6	3682.9	3671.1
17.5°	4820.2	4833.8	4582.9	4211.7	3869.4	3664.3	3577.9	3532.1	3516.8	3508.4
20°	4845.6	4750.7	4374.4	3918.5	3594.8	3450.7	3430.4	3418.5	3415.2	3410.1
22.5°	4972.7	4725.3	4182.9	3640.6	3354.1	3291.4	3308.4	3306.7	3303.3	3299.9
25°	5199.8	4747.3	3996.5	3376.2	3152.4	3138.9	3169.4	3169.4	3155.8	3155.8
27.5°	5499.8	4793.1	3788.0	3125.3	2969.4	2971.1	2994.8	2988.0	2972.8	2962.6
30°	5865.9	4821.9	3544.0	2899.9	2798.2	2791.4	2798.2	2769.4	2723.6	2720.3
32.5°	6240.5	4786.3	3260.9	2699.9	2616.9	2601.6	2596.5	2555.9	2503.3	2488.1
35°	6579.5	4655.8	2972.8	2540.6	2444.0	2410.1	2433.8	2420.3	2372.8	2360.9
37.5°	6826.9	4413.4	2713.5	2399.9	2320.3	2311.8	2327.0	2332.1	2276.2	2264.3
40°	6993.0	4084.6	2491.5	2281.3	2296.5	2264.3	2213.5	2177.9	2161.0	2155.9
42.5°	7126.9	3742.3	2305.0	2225.4	2301.6	2208.4	2098.2	2040.6	2071.1	2084.7
45°	7281.1	3408.4	2149.1	2155.9	2276.2	2144.0	2018.6	1962.7	1974.5	1977.9
47.5°	7493.0	3001.6	1981.3	2044.0	2191.5	2099.9	1969.4	1889.8	1833.8	1808.4
50°	7786.2	2520.3	1806.7	1918.6	2108.4	2067.7	1893.2	1808.4	1705.0	1681.3
52.5°	7989.6	2071.1	1662.7	1813.5	2033.8	2003.3	1832.1	1722.0	1613.5	1593.2
55°	7879.4	1720.3	1537.2	1696.6	1935.5	1923.7	1781.3	1633.8	1549.1	1532.2
57.5°	7328.6	1498.3	1440.6	1586.4	1815.2	1855.9	1713.5	1559.3	1498.3	1486.4
60°	6277.8	1359.3	1379.6	1511.8	1716.9	1788.1	1645.7	1518.6	1477.9	1469.4
62.5°	4871.0	1266.1	1333.9	1457.6	1640.6	1740.6	1608.4	1513.5	1498.3	1488.1
65°	3489.7	1191.5	1284.7	1403.3	1571.1	1696.6	1594.9	1506.7	1510.1	1501.7
67.5°	2371.1	1125.4	1225.4	1342.3	1503.3	1657.6	1576.2	1483.0	1525.4	1515.2
70°	1659.3	1061.0	1155.9	1264.4	1418.6	1603.3	1542.3	1447.4	1444.0	1403.3
72.5°	1294.9	976.2	1061.0	1155.9	1310.1	1527.1	1474.5	1367.8	1311.8	1269.5
73°	1235.6	955.9	1037.3	1132.2	1286.4	1508.4	1455.9	1345.7	1283.0	1244.0
75°	1022.0	867.8	942.3	1027.1	1184.7	1420.3	1364.4	1245.7	1166.1	1142.3
77.5°	803.4	742.4	813.5	889.8	1044.0	1291.5	1228.8	1115.2	1071.2	1050.8
80°	594.9	615.2	677.9	745.7	905.1	1154.2	1098.3	984.7	1181.3	1132.2
82.5°	418.6	466.1	523.7	584.7	759.3	1020.3	952.5	835.6	864.4	718.6
85°	247.5	305.1	359.3	411.9	547.4	845.7	786.4	666.1	545.7	520.3
87.5°	144.1	169.5	184.7	239.0	376.3	637.3	554.2	493.2	283.0	191.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)