

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: P193257

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193257
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 34114 lumens
Efficiency: N/A
Efficacy: 117.6 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): 290
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

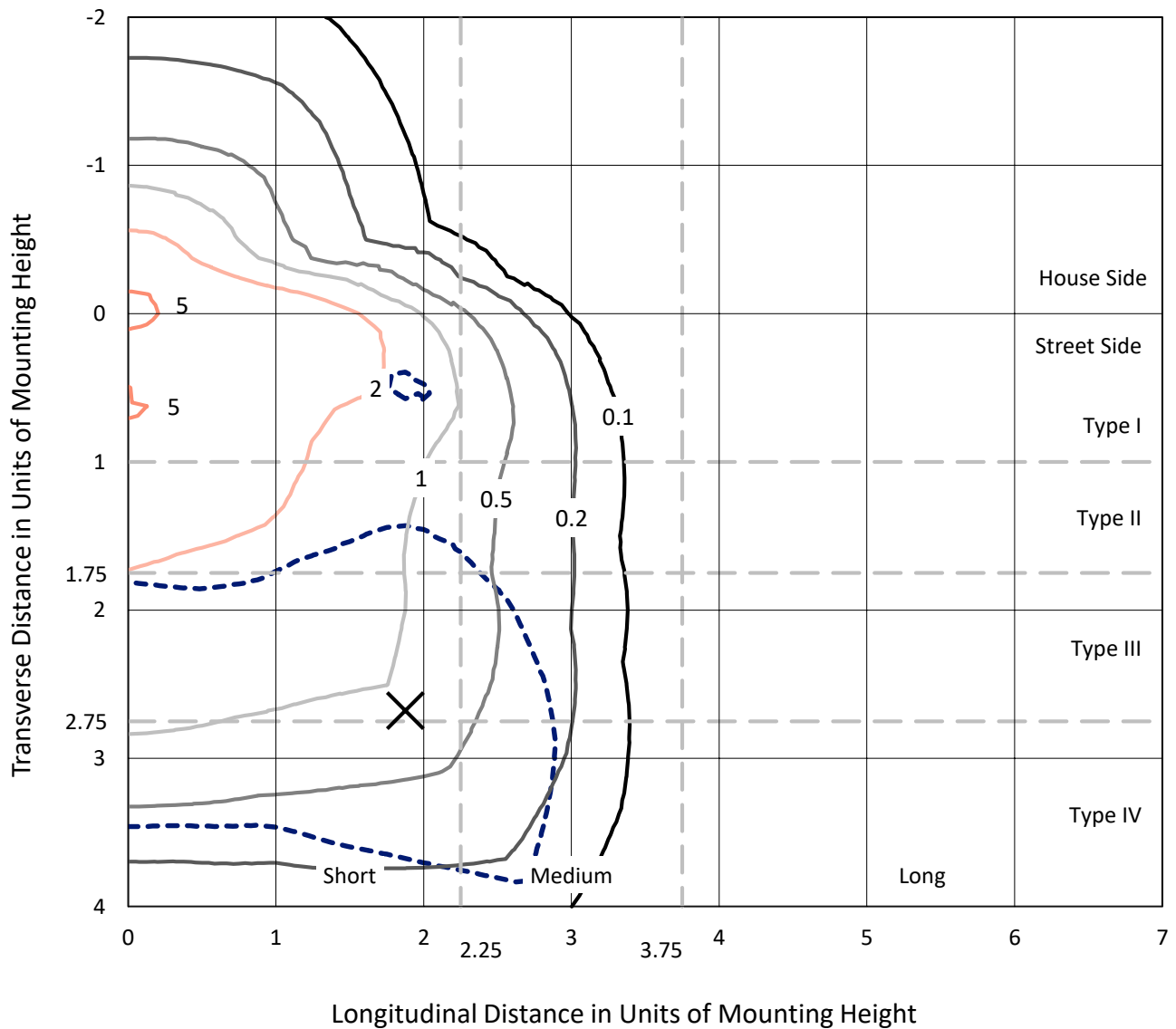


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

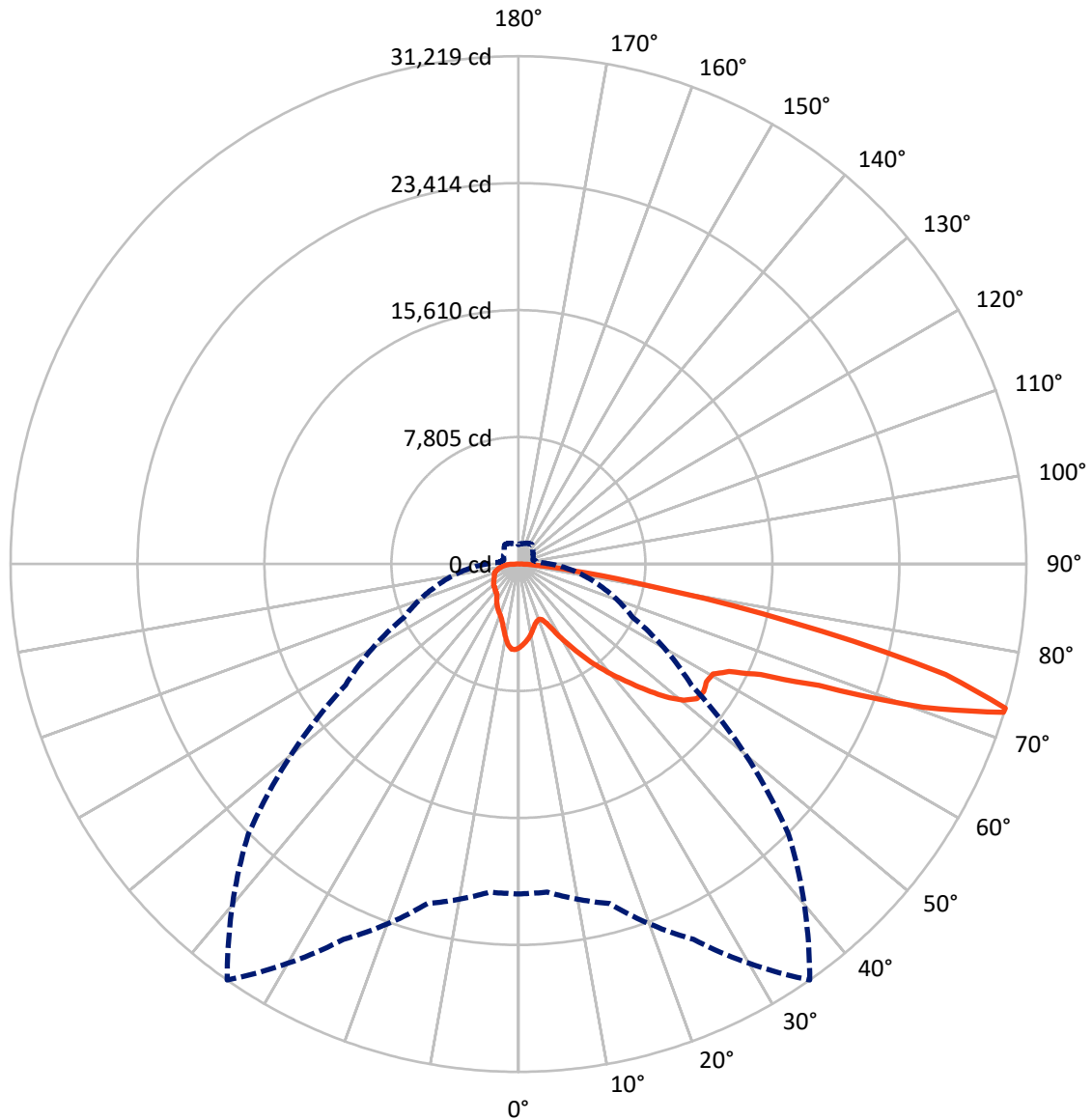


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	6506.5	0.0	6506.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	27607.5	0.0	27607.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	34114.0	0.0	34114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.1	1.4
10°-20°	1163.4	3.4
20°-30°	1880.7	5.5
30°-40°	3153.8	9.2
40°-50°	4861.4	14.3
50°-60°	6522.0	19.1
60°-70°	8688.7	25.5
70°-80°	6626.8	19.4
80°-90°	751.1	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°	34114.0	100.0
0°-180°	34114.0	100.0

Coefficient of Utilization



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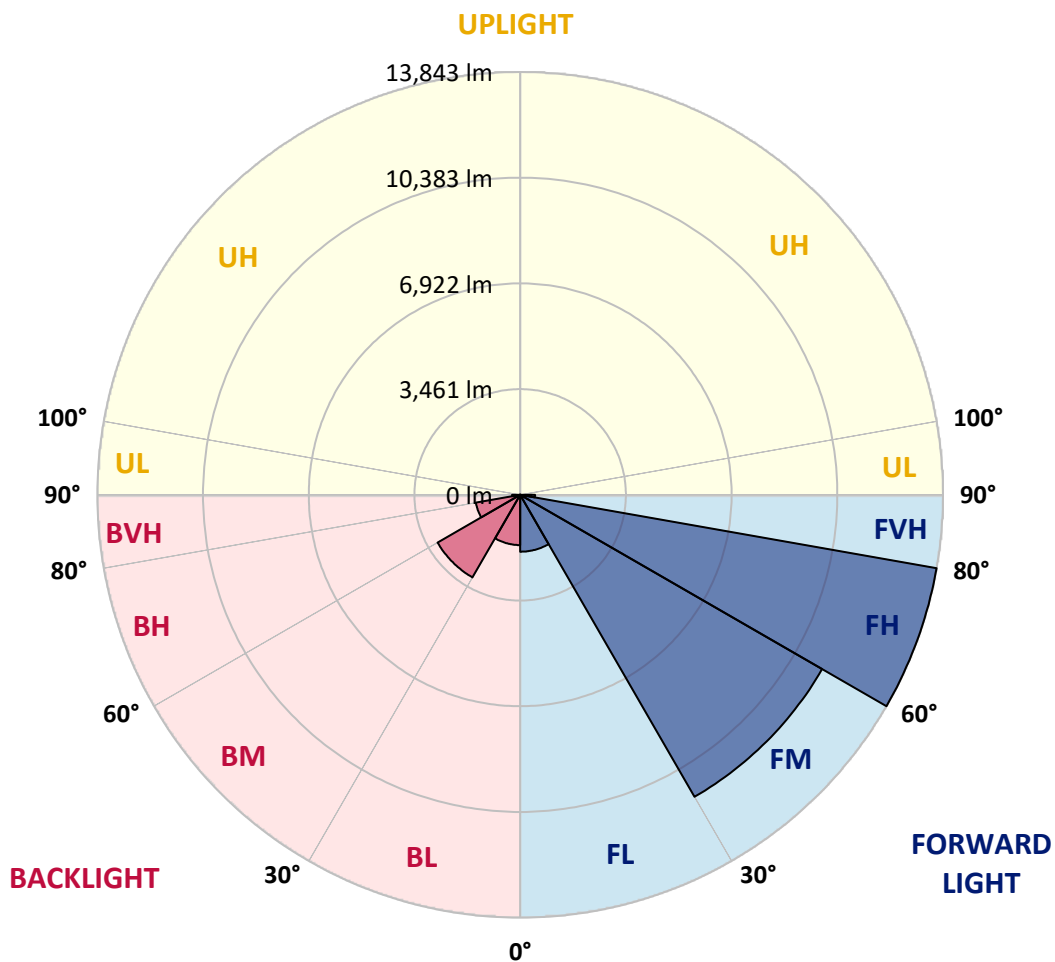
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.8	5.5			
FM	(30°-60°)	11414.8	33.5			
FH	(60°-80°)	13843.5	40.6			G5
FVH	(80°-90°)	485.5	1.4			G3/500
BL	(0°-30°)	1646.5	4.8	B3/2500		
BM	(30°-60°)	3122.4	9.2	B3/5000		
BH	(60°-80°)	1472.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	265.6	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°	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9
2.5°	4945.7	4955.6	4944.1	4958.8	4983.5	5009.6	5027.7	5053.9	5083.3	5124.3	5134.1
5°	4713.1	4727.8	4727.8	4754.1	4801.6	4844.1	4883.5	4926.1	4988.3	5058.8	5086.6
7.5°	4457.6	4465.8	4480.5	4519.8	4588.6	4649.2	4704.9	4773.7	4858.9	4952.2	5001.5
10°	4149.5	4161.0	4184.0	4239.7	4333.0	4416.6	4496.9	4591.8	4700.0	4816.2	4878.5
12.5°	3931.7	3928.4	3938.2	3979.2	4061.0	4162.7	4279.0	4400.2	4532.9	4668.8	4744.2
15°	3858.0	3839.9	3802.2	3792.4	3836.6	3938.2	4072.5	4221.7	4380.5	4544.4	4637.7
17.5°	3903.9	3872.7	3769.6	3694.2	3687.6	3764.6	3907.1	4074.2	4257.8	4457.6	4573.8
20°	4192.2	4118.4	3864.5	3689.2	3628.6	3666.3	3790.7	3967.7	4184.0	4449.4	4598.4
22.5°	4881.8	4773.7	4234.8	3908.7	3704.0	3658.1	3751.5	3939.9	4192.2	4550.9	4741.0
25°	5886.1	5732.1	4870.3	4455.9	4033.2	3789.1	3810.4	4003.8	4308.4	4786.8	5016.2
27.5°	6678.9	6579.0	5700.9	5227.5	4632.8	4143.0	4002.1	4164.3	4546.1	5173.4	5407.7
30°	7150.8	7090.2	6588.9	6102.3	5397.9	4706.6	4369.1	4465.8	4917.9	5709.2	5902.4
32.5°	7697.9	7662.0	7416.1	6968.9	6223.5	5447.0	4950.6	4916.2	5415.9	6353.0	6441.4
35°	8264.7	8253.2	8109.1	7788.0	7109.8	6423.4	5722.2	5489.6	5958.1	7021.3	6965.6
37.5°	8792.2	8772.5	8689.1	8502.2	8037.0	7471.8	6508.6	6077.8	6543.0	7660.2	7412.9
40°	9763.6	9609.7	9323.0	9182.1	8974.1	8354.8	7132.8	6626.6	7149.2	8269.7	7799.5
42.5°	10948.1	10697.5	10163.4	9970.1	9940.6	9051.0	7558.7	7158.8	7760.1	8874.1	8179.5
45°	11880.2	11644.3	11184.0	10939.9	11048.1	9681.8	7986.2	7727.4	8389.3	9508.1	8571.1
47.5°	12874.7	12504.4	11894.9	11968.7	12204.6	10278.0	8422.0	8338.4	9078.9	10217.5	9057.6
50°	12910.6	12627.2	12360.2	12801.0	13167.8	10826.8	8967.6	8978.9	9922.6	11110.2	9704.7
52.5°	12161.9	12101.3	12525.7	13218.6	13747.8	11261.1	9588.4	9640.8	11002.2	12135.8	10415.6
55°	11899.9	11831.1	12320.9	13072.9	13826.4	11619.7	10261.7	10356.6	12307.8	13217.0	11108.6
57.5°	12538.8	12386.4	12419.2	13004.0	13634.8	12012.9	10995.7	11187.3	13726.5	14162.3	11554.2
60°	14324.4	13998.4	13379.3	13364.5	13737.9	12602.7	11844.1	12078.5	15200.9	14614.4	11380.6
62.5°	16829.2	16503.3	15343.4	14588.2	14532.5	13575.8	12886.0	12948.4	16052.7	14001.7	10320.6
65°	19540.5	19248.9	17953.1	16886.6	16372.2	15187.8	14096.7	13336.6	15774.2	12316.0	8466.2
67.5°	22831.6	22518.7	21404.8	20420.1	19925.4	17789.3	14947.0	12964.7	14006.6	9540.8	6086.0
70°	25133.2	24813.9	24374.7	25172.6	26383.3	21542.3	15056.7	11452.7	10461.6	6341.5	3663.0
72.5°	22130.5	21981.4	22782.4	26142.5	31184.8	23819.4	13610.2	8338.4	6076.1	3366.5	2119.8
73°	20276.0	20243.2	21609.6	25462.6	31219.2	23468.9	12976.1	7750.3	5211.1	2978.3	1938.0
75°	9155.9	9419.7	12414.2	19448.7	27123.7	19339.0	9133.0	4446.1	2943.9	2057.6	1462.9
77.5°	2200.2	2291.8	3884.1	9236.1	17129.0	11524.7	4138.0	2198.6	1882.3	1453.0	1068.1
80°	937.0	968.1	1495.6	3412.3	8064.9	4641.0	1906.9	1472.7	1302.4	1014.0	748.7
82.5°	520.9	553.7	848.6	1548.1	3255.1	1582.5	1163.2	1025.5	856.8	611.1	486.5
85°	294.9	312.9	496.4	865.0	1379.4	635.7	696.2	681.4	483.3	314.5	239.2
87.5°	139.2	150.7	239.2	401.3	540.7	249.0	353.9	389.9	303.0	191.6	124.5
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°	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9	5148.9
2.5°	5145.6	5175.1	5209.5	5227.5	5243.9	5263.6	5283.2	5283.2	5286.5	5288.1
5°	5109.5	5170.1	5224.2	5247.1	5252.1	5252.1	5247.1	5221.0	5198.0	5207.9
7.5°	5034.2	5122.6	5168.5	5160.4	5098.0	5026.0	4965.4	4891.6	4854.0	4847.4
10°	4926.1	5027.7	5035.9	4954.0	4800.0	4645.9	4518.2	4393.7	4334.7	4319.9
12.5°	4806.6	4899.8	4847.4	4678.7	4431.3	4206.9	4044.7	3918.6	3862.9	3848.1
15°	4709.8	4773.7	4641.0	4375.7	4064.3	3826.8	3692.5	3599.1	3559.7	3548.3
17.5°	4659.1	4672.2	4429.7	4070.9	3740.1	3541.7	3458.3	3414.1	3399.3	3391.1
20°	4683.6	4591.8	4228.3	3787.5	3474.7	3335.3	3315.7	3304.2	3300.9	3296.1
22.5°	4806.6	4567.2	4043.0	3518.8	3242.0	3181.4	3197.8	3196.2	3192.9	3189.6
25°	5026.0	4588.6	3862.9	3263.2	3047.0	3033.9	3063.4	3063.4	3050.3	3050.3
27.5°	5316.0	4632.8	3661.4	3020.8	2870.1	2871.8	2894.8	2888.2	2873.4	2863.5
30°	5669.8	4660.7	3425.5	2802.9	2704.7	2698.1	2704.7	2676.9	2632.6	2629.4
32.5°	6031.8	4626.2	3151.9	2609.6	2529.4	2514.6	2509.6	2470.5	2419.6	2404.9
35°	6359.6	4500.2	2873.4	2455.7	2362.3	2329.5	2352.5	2339.3	2293.5	2282.0
37.5°	6598.7	4265.9	2622.8	2319.7	2242.6	2234.5	2249.2	2254.1	2200.2	2188.7
40°	6759.3	3948.1	2408.2	2205.1	2219.7	2188.7	2139.6	2105.1	2088.7	2083.8
42.5°	6888.7	3617.1	2227.9	2151.0	2224.6	2134.6	2028.1	1972.3	2001.8	2015.0
45°	7037.7	3294.3	2077.2	2083.8	2200.2	2072.3	1951.1	1897.1	1908.5	1911.8
47.5°	7242.5	2901.3	1915.1	1975.6	2118.2	2029.7	1903.7	1826.6	1772.5	1747.9
50°	7525.9	2436.1	1746.3	1854.4	2037.9	1998.6	1829.9	1747.9	1648.0	1625.1
52.5°	7722.5	2001.8	1607.1	1752.8	1965.8	1936.4	1770.9	1664.4	1559.5	1539.9
55°	7616.0	1662.8	1485.8	1639.9	1870.8	1859.4	1721.7	1579.3	1497.3	1480.9
57.5°	7083.6	1448.1	1392.5	1533.4	1754.4	1793.8	1656.3	1507.1	1448.1	1436.6
60°	6067.9	1313.9	1333.5	1461.3	1659.5	1728.3	1590.7	1467.8	1428.6	1420.4
62.5°	4708.2	1223.7	1289.3	1408.9	1585.8	1682.5	1554.6	1462.9	1448.1	1438.3
65°	3373.1	1151.7	1241.7	1356.5	1518.6	1639.9	1541.5	1456.3	1459.6	1451.4
67.5°	2291.8	1087.7	1184.4	1297.5	1453.0	1602.2	1523.5	1433.4	1474.4	1464.5
70°	1603.8	1025.5	1117.2	1222.1	1371.2	1549.8	1490.8	1399.1	1395.8	1356.5
72.5°	1251.6	943.6	1025.5	1117.2	1266.4	1476.0	1425.3	1322.0	1268.0	1227.0
73°	1194.2	923.9	1002.6	1094.3	1243.4	1457.9	1407.3	1300.7	1240.1	1202.4
75°	987.8	838.8	910.7	992.7	1145.1	1372.9	1318.8	1204.0	1127.1	1104.2
77.5°	776.5	717.5	786.3	860.1	1009.1	1248.3	1187.6	1078.0	1035.3	1015.7
80°	575.0	594.7	655.2	720.8	874.8	1115.6	1061.6	951.7	1141.9	1094.3
82.5°	404.6	450.4	506.2	565.2	733.9	986.2	920.6	807.7	835.5	694.6
85°	239.2	294.9	347.3	398.0	529.2	817.5	760.1	643.9	527.5	502.9
87.5°	139.2	163.8	178.5	231.0	363.8	616.0	535.7	476.7	273.5	185.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)