

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: P191543

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191543  
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-05-LED-E1-T4FT-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA 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: 33585.5 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

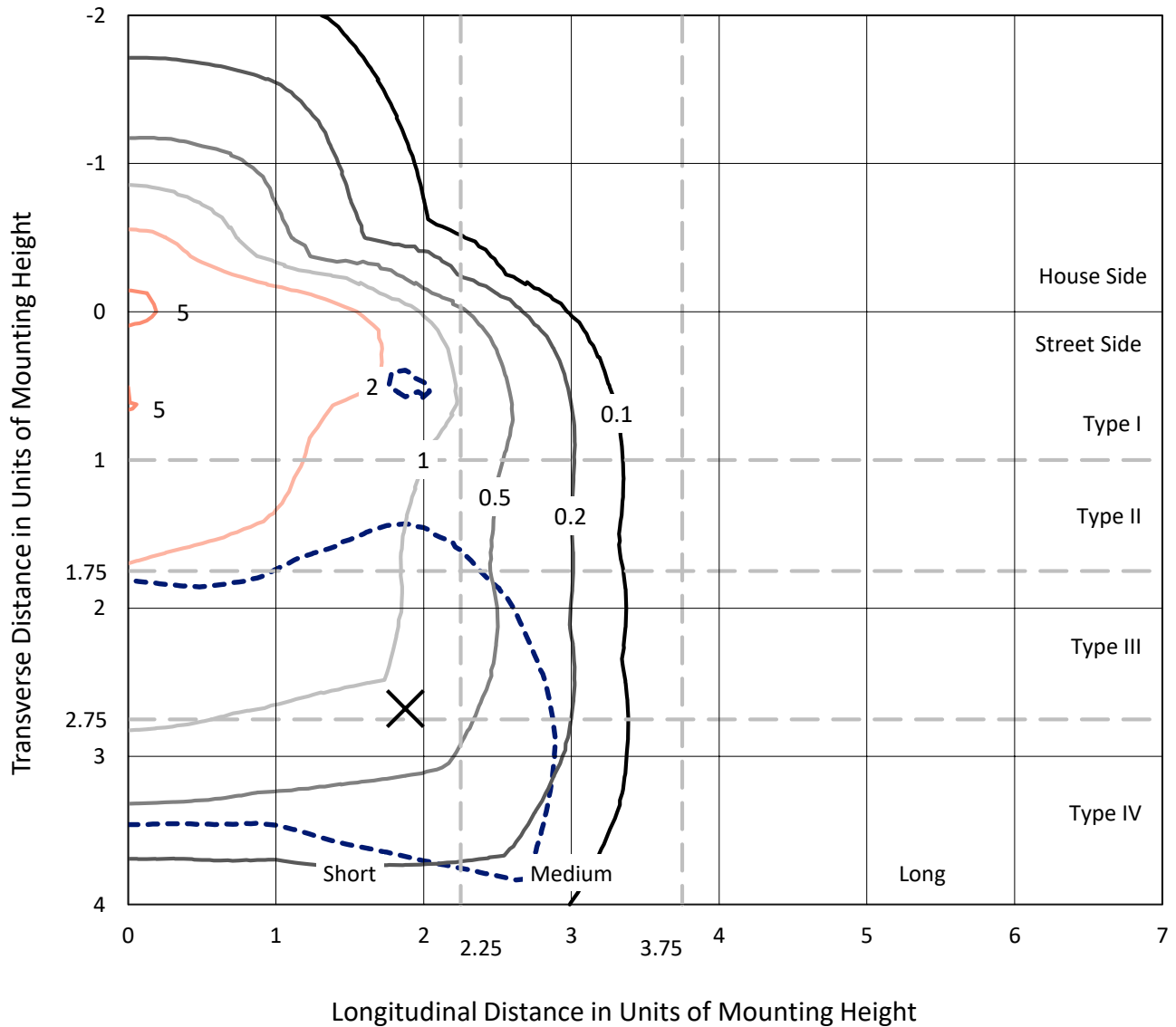
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

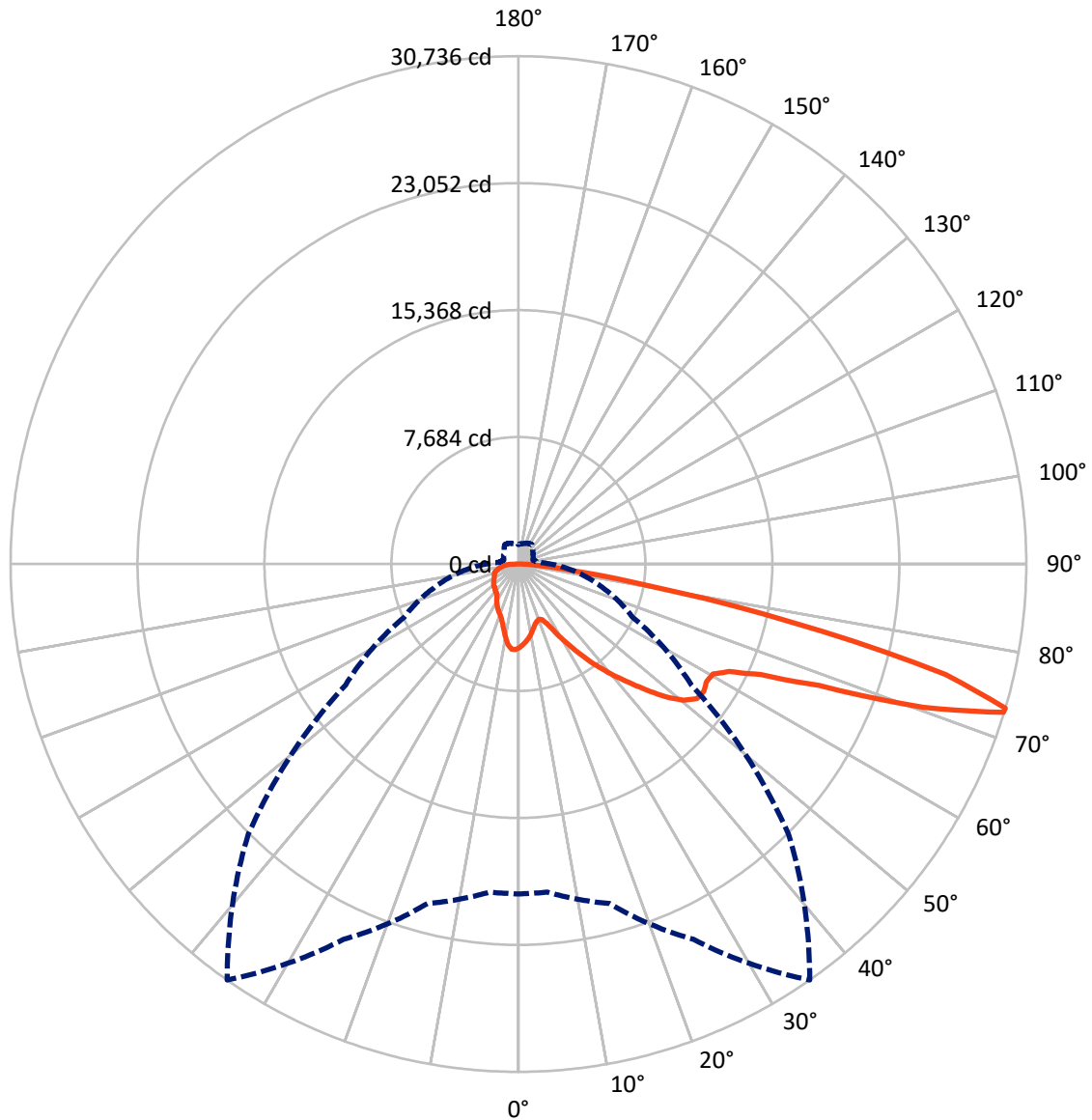
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	6405.7	0.0	6405.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	27179.8	0.0	27179.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	33585.5	0.0	33585.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.9	1.4
10°-20°	1145.3	3.4
20°-30°	1851.6	5.5
30°-40°	3104.9	9.2
40°-50°	4786.0	14.3
50°-60°	6421.0	19.1
60°-70°	8554.1	25.5
70°-80°	6524.2	19.4
80°-90°	739.5	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°	33585.5	100.0
0°-180°	33585.5	100.0

**Coefficient of Utilization**



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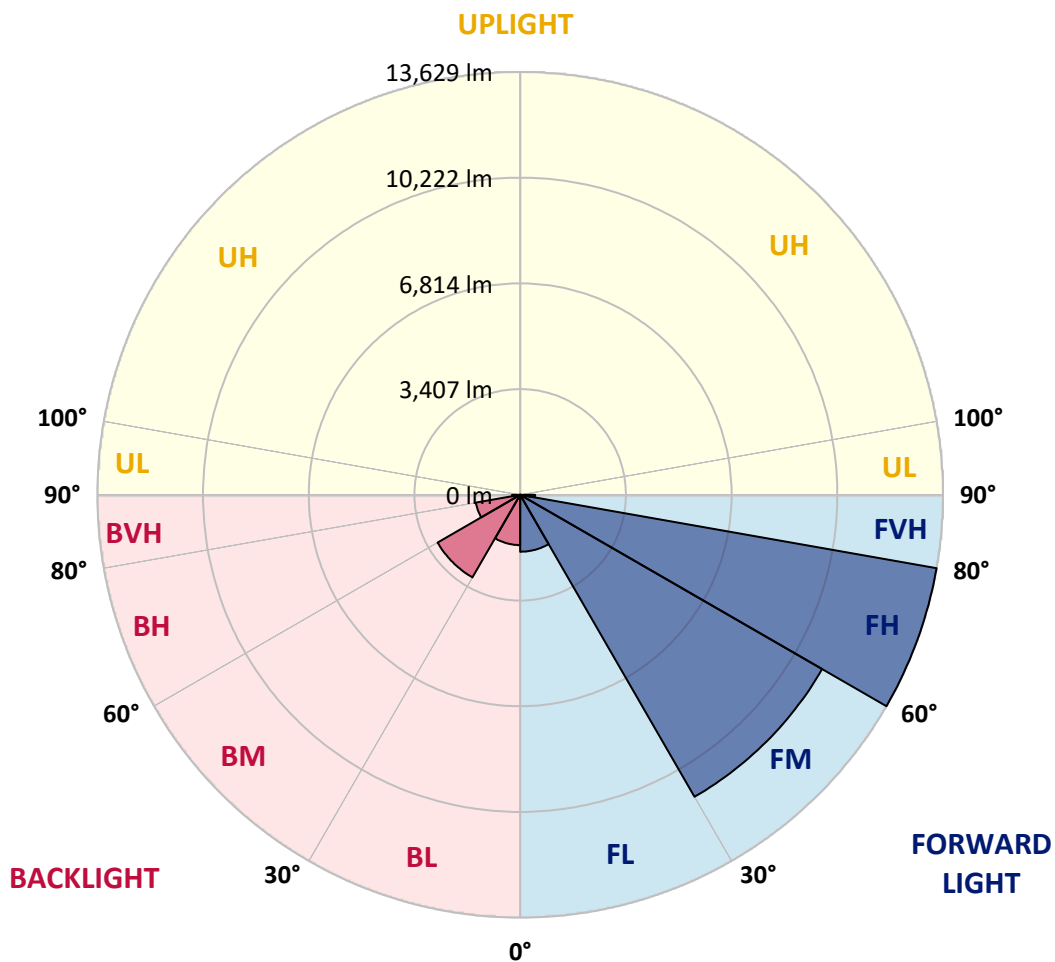
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.9	5.5			
FM	(30°-60°)	11237.9	33.5			
FH	(60°-80°)	13629.0	40.6			G5
FVH	(80°-90°)	478.0	1.4			G3/500
BL	(0°-30°)	1620.9	4.8	B3/2500		
BM	(30°-60°)	3074.0	9.2	B3/5000		
BH	(60°-80°)	1449.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	261.5	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°	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1
2.5°	4869.1	4878.8	4867.5	4882.0	4906.2	4932.1	4949.8	4975.5	5004.6	5044.9	5054.6
5°	4640.1	4654.6	4654.6	4680.4	4727.2	4769.1	4807.9	4849.7	4911.1	4980.4	5007.9
7.5°	4388.5	4396.5	4411.1	4449.7	4517.6	4577.2	4632.0	4699.7	4783.6	4875.6	4924.0
10°	4085.3	4096.6	4119.1	4173.9	4265.9	4348.2	4427.2	4520.7	4627.2	4741.7	4803.0
12.5°	3870.7	3867.6	3877.2	3917.6	3998.2	4098.1	4212.7	4332.0	4462.7	4596.5	4670.7
15°	3798.2	3780.4	3743.4	3733.7	3777.2	3877.2	4009.5	4156.2	4312.7	4474.0	4565.9
17.5°	3843.3	3812.7	3711.1	3636.9	3630.5	3706.3	3846.6	4011.1	4191.7	4388.5	4503.0
20°	4127.2	4054.7	3804.7	3632.1	3572.3	3609.5	3732.0	3906.2	4119.1	4380.4	4527.2
22.5°	4806.2	4699.7	4169.1	3848.2	3646.6	3601.4	3693.4	3878.8	4127.2	4480.4	4667.5
25°	5794.9	5643.3	4794.9	4386.9	3970.8	3730.5	3751.5	3941.7	4241.8	4712.6	4938.5
27.5°	6575.4	6477.1	5612.6	5146.5	4561.0	4078.8	3940.1	4099.8	4475.6	5093.3	5323.9
30°	7039.9	6980.3	6486.7	6007.8	5314.2	4633.7	4301.4	4396.5	4841.7	5620.7	5811.0
32.5°	7578.6	7543.1	7301.2	6860.9	6127.1	5362.6	4874.0	4840.1	5332.0	6254.5	6341.6
35°	8136.7	8125.4	7983.5	7667.3	6999.6	6323.9	5633.6	5404.6	5865.8	6912.6	6857.8
37.5°	8656.0	8636.7	8554.4	8370.5	7912.5	7356.0	6407.8	5983.5	6441.6	7541.6	7298.0
40°	9612.5	9460.9	9178.5	9039.8	8835.0	8225.3	7022.3	6523.9	7038.3	8141.6	7678.7
42.5°	10778.5	10531.7	10006.0	9815.6	9786.6	8910.8	7441.6	7048.0	7639.9	8736.6	8052.8
45°	11696.2	11463.9	11010.7	10770.4	10876.8	9531.8	7862.5	7607.7	8259.3	9360.8	8438.3
47.5°	12675.2	12310.7	11710.7	11783.3	12015.5	10118.8	8291.5	8209.3	8938.2	10059.2	8917.3
50°	12710.7	12431.6	12168.7	12602.5	12963.9	10659.1	8828.6	8839.8	9768.9	10938.1	9554.4
52.5°	11973.5	11913.9	12331.7	13013.9	13534.8	11086.5	9439.9	9491.4	10831.7	11947.8	10254.4
55°	11715.5	11647.8	12130.0	12870.4	13612.2	11439.8	10102.8	10196.3	12117.2	13012.2	10936.6
57.5°	12344.6	12194.5	12226.8	12802.5	13423.5	11826.8	10825.3	11014.0	13513.8	13942.8	11375.2
60°	14102.5	13781.6	13171.9	13157.4	13525.1	12407.5	11660.7	11891.3	14965.4	14388.0	11204.3
62.5°	16568.5	16247.5	15105.7	14362.1	14307.3	13365.5	12686.4	12747.7	15804.1	13784.8	10160.8
65°	19237.7	18950.7	17675.0	16625.0	16118.5	14952.5	13878.4	13130.0	15529.8	12125.2	8335.1
67.5°	22477.9	22169.8	21073.1	20103.8	19616.7	17513.6	14715.4	12763.9	13789.6	9393.0	5991.6
70°	24744.0	24429.4	23997.2	24782.6	25974.5	21208.6	14823.5	11275.3	10299.5	6243.3	3606.3
72.5°	21787.6	21640.8	22429.5	25737.4	30701.7	23450.4	13399.3	8209.3	5981.9	3314.4	2087.0
73°	19961.9	19929.6	21274.7	25068.1	30735.6	23105.3	12775.1	7630.3	5130.4	2932.1	1908.0
75°	9014.0	9273.8	12222.0	19147.4	26703.5	19039.4	8991.4	4377.2	2898.2	2025.7	1440.2
77.5°	2166.0	2256.3	3824.0	9093.1	16863.7	11346.2	4074.0	2164.4	1853.2	1430.6	1051.6
80°	922.5	953.2	1472.5	3359.5	7939.9	4569.1	1877.3	1449.9	1282.2	998.3	737.0
82.5°	512.9	545.1	835.4	1524.1	3204.7	1558.0	1145.1	1009.7	843.5	601.6	479.0
85°	290.3	308.0	488.7	851.6	1358.0	625.7	685.5	671.0	475.8	309.6	235.5
87.5°	137.1	148.4	235.5	395.2	532.2	245.1	348.4	383.8	298.4	188.7	122.5
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°	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1	5069.1
2.5°	5065.9	5094.9	5128.8	5146.5	5162.6	5182.0	5201.4	5201.4	5204.6	5206.2
5°	5030.4	5090.1	5143.3	5165.9	5170.7	5170.7	5165.9	5140.0	5117.5	5127.1
7.5°	4956.2	5043.2	5088.5	5080.4	5019.1	4948.1	4888.5	4815.8	4778.8	4772.4
10°	4849.7	4949.8	4957.8	4877.1	4725.5	4573.9	4448.2	4325.5	4267.5	4253.0
12.5°	4732.1	4823.9	4772.4	4606.2	4362.7	4141.7	3982.0	3857.9	3803.0	3788.5
15°	4636.8	4699.7	4569.1	4307.9	4001.4	3767.5	3635.3	3543.4	3504.6	3493.4
17.5°	4586.9	4599.8	4361.0	4007.8	3682.1	3486.9	3404.7	3361.1	3346.6	3338.5
20°	4611.1	4520.7	4162.7	3728.9	3420.7	3283.7	3264.3	3253.1	3249.8	3245.0
22.5°	4732.1	4496.6	3980.4	3464.3	3191.8	3132.1	3148.2	3146.6	3143.4	3140.2
25°	4948.1	4517.6	3803.0	3212.8	2999.8	2986.9	3016.0	3016.0	3003.1	3003.1
27.5°	5233.6	4561.0	3604.7	2974.0	2825.7	2827.2	2849.8	2843.4	2828.9	2819.3
30°	5581.9	4588.4	3372.4	2759.5	2662.7	2656.3	2662.7	2635.3	2591.9	2588.6
32.5°	5938.4	4554.6	3103.0	2569.2	2490.2	2475.6	2470.8	2432.2	2382.1	2367.6
35°	6261.0	4430.4	2828.9	2417.6	2325.7	2293.5	2316.1	2303.1	2258.0	2246.7
37.5°	6496.5	4199.8	2582.1	2283.7	2207.9	2199.9	2214.4	2219.3	2166.0	2154.7
40°	6654.5	3886.9	2370.9	2170.9	2185.3	2154.7	2106.4	2072.5	2056.3	2051.5
42.5°	6782.0	3561.1	2193.4	2117.6	2190.2	2101.6	1996.7	1941.9	1970.8	1983.8
45°	6928.7	3243.4	2045.1	2051.5	2166.0	2040.2	1920.9	1867.6	1879.0	1882.1
47.5°	7130.3	2856.3	1885.4	1945.0	2085.4	1998.3	1874.1	1798.2	1745.1	1720.9
50°	7409.3	2398.3	1719.3	1825.8	2006.3	1967.6	1801.5	1720.9	1622.5	1599.9
52.5°	7602.9	1970.8	1582.2	1725.7	1935.4	1906.4	1743.4	1638.7	1535.4	1516.0
55°	7498.0	1637.0	1462.8	1614.4	1841.8	1830.6	1695.0	1554.8	1474.1	1458.0
57.5°	6973.9	1425.7	1370.9	1509.6	1727.4	1766.0	1630.6	1483.8	1425.7	1414.4
60°	5973.9	1293.5	1312.9	1438.7	1633.8	1701.6	1566.0	1445.1	1406.4	1398.3
62.5°	4635.3	1204.7	1269.3	1387.0	1561.2	1656.4	1530.5	1440.2	1425.7	1416.1
65°	3320.8	1133.8	1222.5	1335.5	1495.0	1614.4	1517.6	1433.8	1437.0	1429.0
67.5°	2256.3	1070.9	1166.1	1277.4	1430.6	1577.4	1500.0	1411.3	1451.6	1441.8
70°	1578.9	1009.7	1100.0	1203.2	1349.9	1525.7	1467.6	1377.3	1374.1	1335.5
72.5°	1232.2	928.9	1009.7	1100.0	1246.7	1453.1	1403.2	1301.5	1248.3	1208.0
73°	1175.8	909.6	987.0	1077.4	1224.2	1435.4	1385.4	1280.5	1220.9	1183.9
75°	972.5	825.7	896.7	977.3	1127.4	1351.5	1298.3	1185.4	1109.6	1087.1
77.5°	764.5	706.4	774.2	846.7	993.5	1229.0	1169.3	1061.2	1019.3	999.9
80°	566.1	585.4	645.2	709.6	861.2	1098.3	1045.1	937.0	1124.1	1077.4
82.5°	398.3	443.6	498.4	556.4	722.5	970.9	906.4	795.1	822.6	683.8
85°	235.5	290.3	341.9	391.9	521.0	804.8	748.4	633.8	519.4	495.1
87.5°	137.1	161.3	175.8	227.4	358.0	606.4	527.4	469.3	269.3	182.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)