

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: P192334

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192334  
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-06-LED-E1-T4FT-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA 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: 35815 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

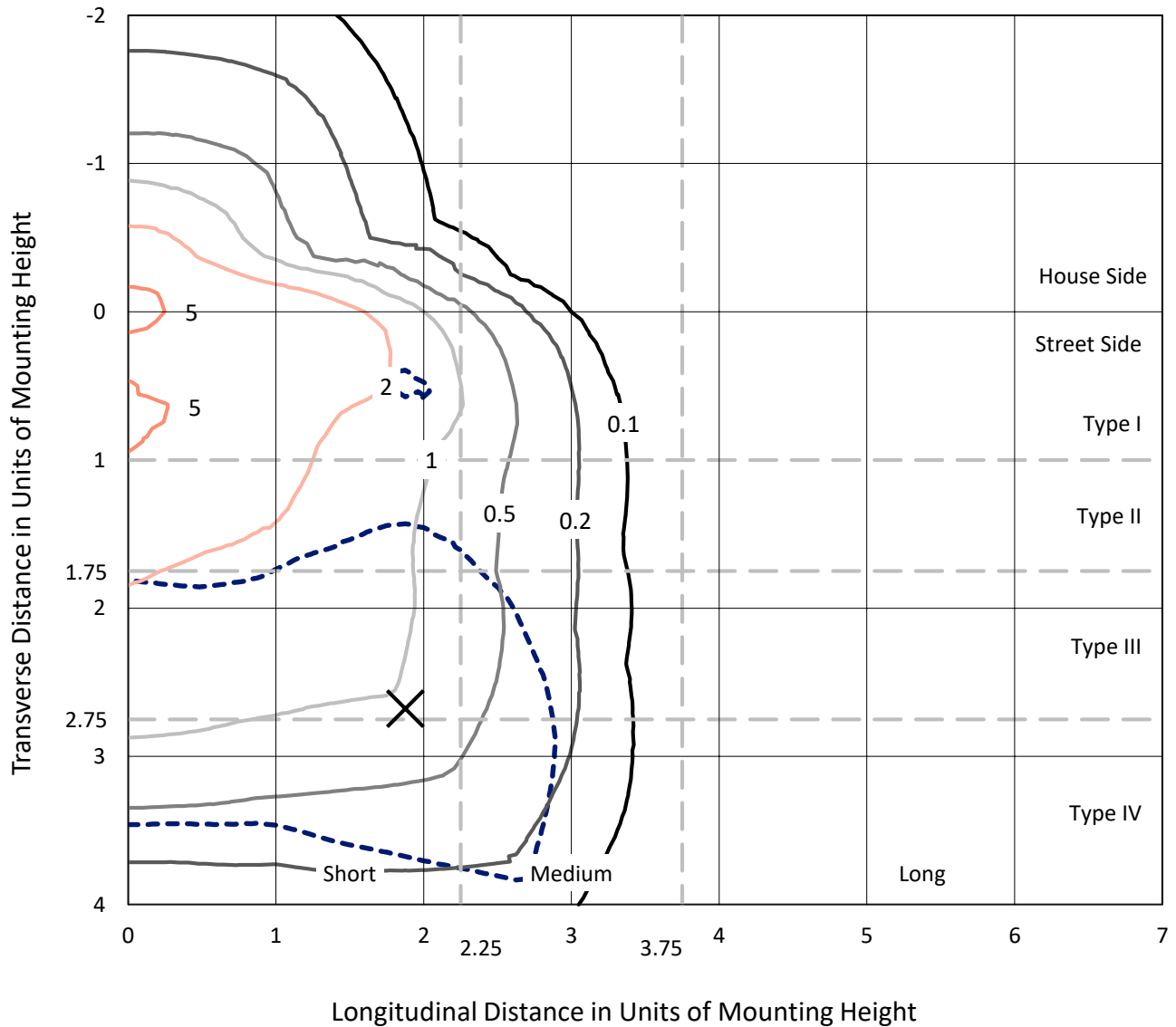
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

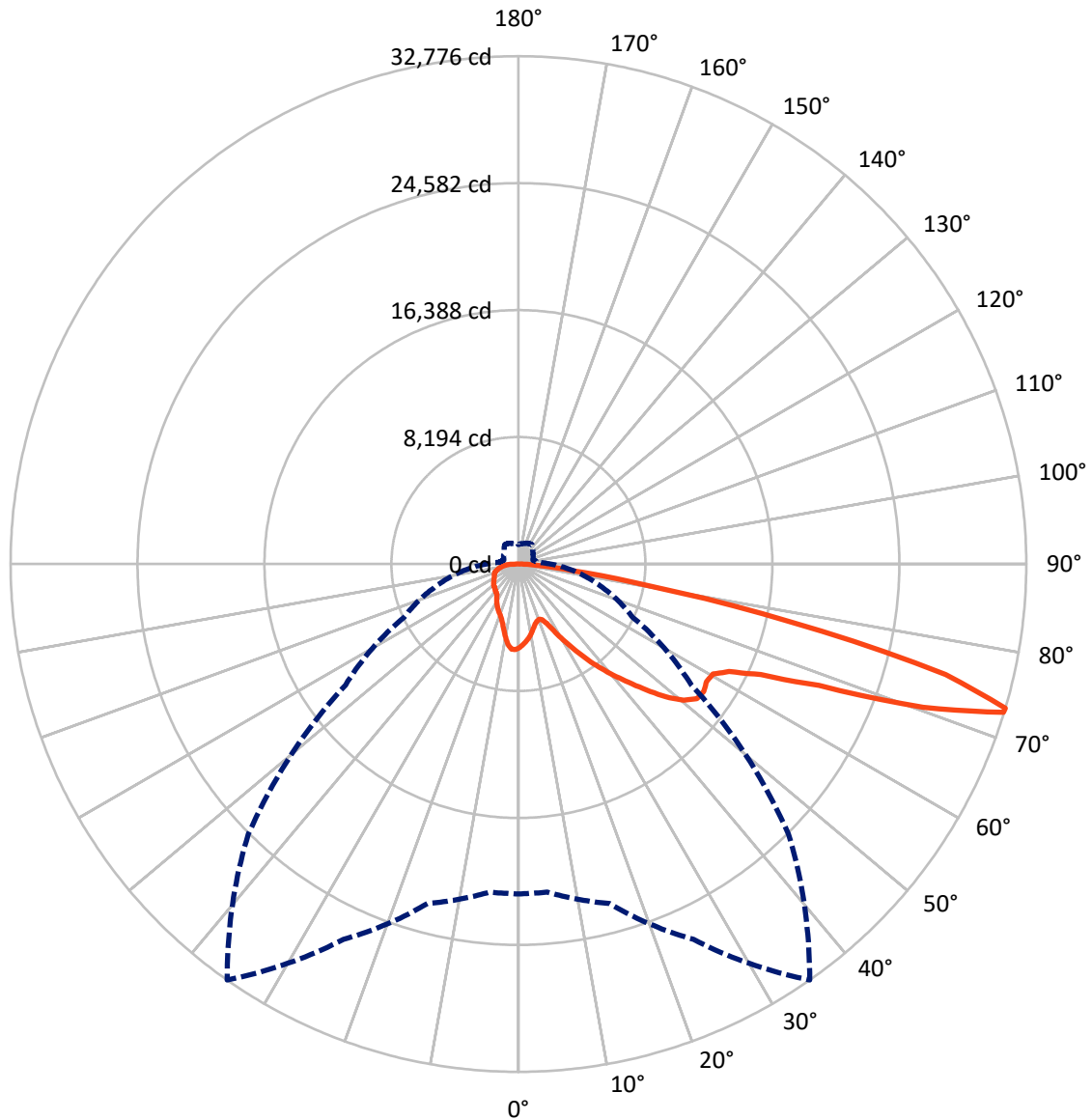
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	6830.9	0.0	6830.9
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	28984.1	0.0	28984.1
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	35815.0	0.0	35815.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.4	1.4
10°-20°	1221.4	3.4
20°-30°	1974.5	5.5
30°-40°	3311.0	9.2
40°-50°	5103.8	14.3
50°-60°	6847.2	19.1
60°-70°	9121.9	25.5
70°-80°	6957.2	19.4
80°-90°	788.6	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°	35815.0	100.0
0°-180°	35815.0	100.0



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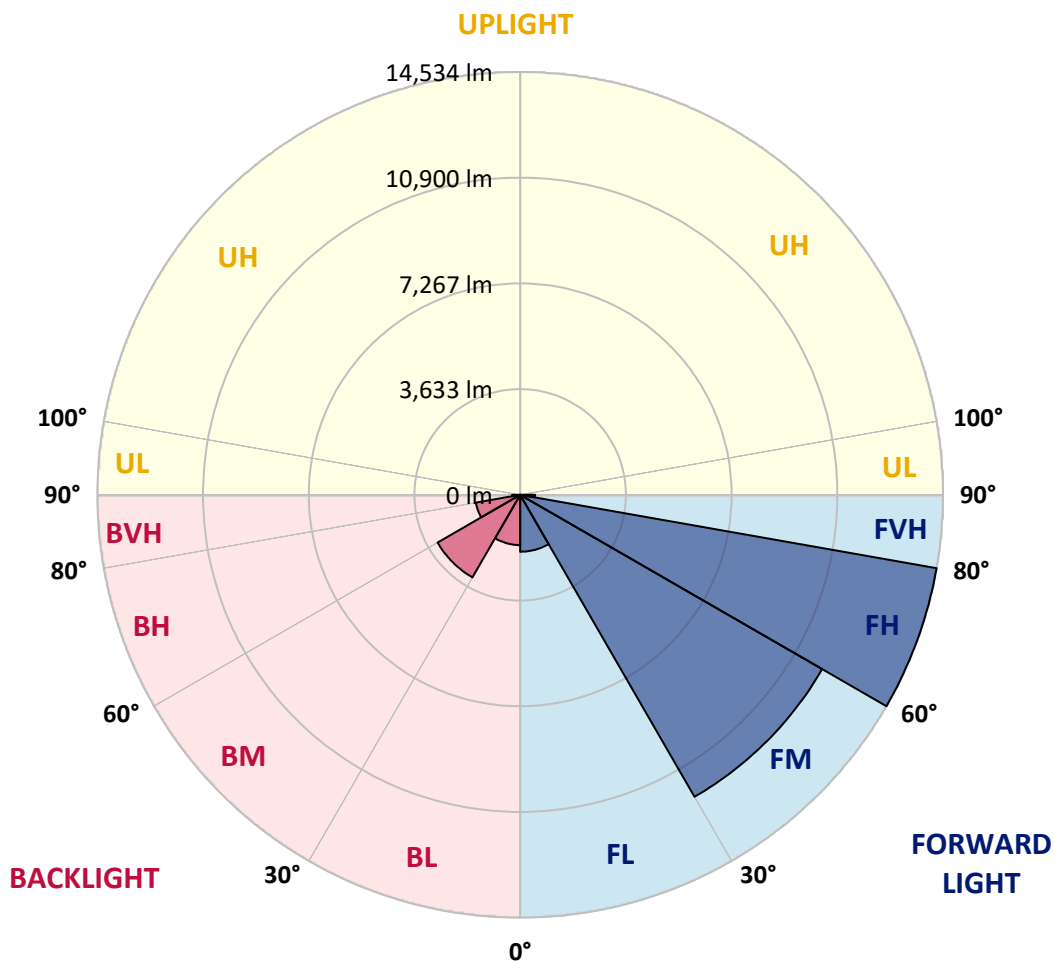
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1956.7	5.5			
FM	(30°-60°)	11983.9	33.5			
FH	(60°-80°)	14533.7	40.6			G5
FVH	(80°-90°)	509.7	1.4			G4/750
BL	(0°-30°)	1728.5	4.8	B3/2500		
BM	(30°-60°)	3278.1	9.2	B3/5000		
BH	(60°-80°)	1545.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	278.8	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°	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6
2.5°	5192.3	5202.6	5190.6	5206.1	5231.9	5259.4	5278.3	5305.8	5336.8	5379.8	5390.1
5°	4948.1	4963.6	4963.6	4991.1	5041.0	5085.7	5127.0	5171.7	5237.0	5311.0	5340.2
7.5°	4679.8	4688.4	4703.9	4745.2	4817.4	4881.0	4939.5	5011.7	5101.2	5199.2	5250.8
10°	4356.5	4368.5	4392.6	4451.1	4549.1	4636.8	4721.1	4820.8	4934.3	5056.5	5121.8
12.5°	4127.7	4124.3	4134.6	4177.6	4263.6	4370.2	4492.3	4619.6	4758.9	4901.7	4980.8
15°	4050.3	4031.4	3991.9	3981.5	4028.0	4134.6	4275.6	4432.1	4599.0	4771.0	4869.0
17.5°	4098.5	4065.8	3957.5	3878.3	3871.5	3952.3	4101.9	4277.4	4470.0	4679.8	4801.9
20°	4401.2	4323.8	4057.2	3873.2	3809.5	3849.1	3979.8	4165.6	4392.6	4671.2	4827.7
22.5°	5125.3	5011.7	4445.9	4103.6	3888.7	3840.5	3938.5	4136.3	4401.2	4777.8	4977.3
25°	6179.5	6017.9	5113.2	4678.1	4234.4	3978.1	4000.5	4203.4	4523.3	5025.5	5266.3
27.5°	7012.0	6907.1	5985.2	5488.2	4863.8	4349.6	4201.7	4371.9	4772.7	5431.4	5677.3
30°	7507.3	7443.7	6917.4	6406.6	5667.0	4941.2	4586.9	4688.4	5163.1	5993.8	6196.7
32.5°	8081.7	8043.9	7785.9	7316.4	6533.8	5718.6	5197.5	5161.4	5685.9	6669.7	6762.6
35°	8676.8	8664.8	8513.4	8176.3	7464.3	6743.7	6007.6	5763.3	6255.2	7371.4	7312.9
37.5°	9230.6	9210.0	9122.3	8926.2	8437.8	7844.4	6833.1	6380.8	6869.2	8042.2	7782.5
40°	10250.5	10088.8	9787.9	9640.0	9421.5	8771.4	7488.4	6956.9	7505.6	8682.0	8188.4
42.5°	11494.0	11230.8	10670.2	10467.2	10436.3	9502.4	7935.5	7515.9	8147.1	9316.6	8587.4
45°	12472.6	12224.9	11741.6	11485.4	11598.9	10164.5	8384.4	8112.7	8807.5	9982.2	8998.4
47.5°	13516.6	13127.9	12488.1	12565.5	12813.1	10790.6	8841.9	8754.2	9531.6	10726.9	9509.2
50°	13554.4	13256.9	12976.5	13439.2	13824.4	11366.7	9414.6	9426.7	10417.3	11664.3	10188.6
52.5°	12768.4	12704.8	13150.2	13877.7	14433.3	11822.5	10066.5	10121.5	11550.7	12740.9	10935.0
55°	12493.2	12421.0	12935.2	13724.7	14515.8	12199.1	10773.4	10873.1	12921.5	13876.0	11662.5
57.5°	13164.0	13004.0	13038.4	13652.4	14314.6	12611.9	11543.9	11745.1	14410.9	14868.4	12130.3
60°	15038.7	14696.4	14046.3	14030.8	14422.9	13231.1	12434.8	12680.7	15958.8	15343.1	11948.0
62.5°	17668.4	17326.1	16108.4	15315.6	15257.1	14252.7	13528.6	13594.0	16853.1	14699.9	10835.3
65°	20514.8	20208.6	18848.2	17728.6	17188.5	15945.0	14799.6	14001.6	16560.8	12930.1	8888.4
67.5°	23970.0	23641.5	22472.0	21438.4	20919.0	18676.2	15692.2	13611.2	14705.0	10016.6	6389.4
70°	26386.5	26051.1	25590.2	26427.7	27698.7	22616.5	15807.5	12023.7	10983.2	6657.7	3845.7
72.5°	23233.9	23077.4	23918.4	27445.9	32739.7	25007.1	14288.8	8754.2	6379.1	3534.4	2225.5
73°	21287.0	21252.6	22687.0	26732.2	32775.8	24639.1	13623.2	8136.8	5471.0	3126.7	2034.6
75°	9612.4	9889.3	13033.3	20418.5	28476.1	20303.2	9588.4	4667.8	3090.6	2160.2	1535.9
77.5°	2309.8	2406.1	4077.8	9696.7	17983.1	12099.4	4344.4	2308.1	1976.1	1525.5	1121.4
80°	983.8	1016.5	1570.3	3582.5	8467.0	4872.4	2001.9	1546.2	1367.3	1064.6	786.0
82.5°	546.9	581.3	890.9	1625.3	3417.4	1661.4	1221.1	1076.6	899.5	641.5	510.8
85°	309.6	328.5	521.1	908.1	1448.1	667.3	731.0	715.5	507.4	330.2	251.1
87.5°	146.2	158.2	251.1	421.4	567.6	261.4	371.5	409.3	318.2	201.2	130.7
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°	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6	5405.6
2.5°	5402.2	5433.1	5469.2	5488.2	5505.3	5526.0	5546.6	5546.6	5550.1	5551.8
5°	5364.3	5428.0	5484.7	5508.8	5513.9	5513.9	5508.8	5481.3	5457.2	5467.5
7.5°	5285.2	5378.1	5426.2	5417.6	5352.3	5276.6	5213.0	5135.6	5096.0	5089.1
10°	5171.7	5278.3	5286.9	5200.9	5039.3	4877.6	4743.4	4612.7	4550.8	4535.3
12.5°	5046.1	5144.2	5089.1	4912.0	4652.3	4416.7	4246.4	4114.0	4055.5	4040.0
15°	4944.7	5011.7	4872.4	4593.8	4267.0	4017.6	3876.6	3778.6	3737.3	3725.3
17.5°	4891.4	4905.1	4650.6	4273.9	3926.5	3718.4	3630.7	3584.2	3568.8	3560.2
20°	4917.1	4820.8	4439.0	3976.4	3647.9	3501.7	3481.0	3469.0	3465.6	3460.4
22.5°	5046.1	4795.0	4244.7	3694.3	3403.7	3340.0	3357.2	3355.5	3352.1	3348.6
25°	5276.6	4817.4	4055.5	3426.0	3199.0	3185.2	3216.2	3216.2	3202.4	3202.4
27.5°	5581.0	4863.8	3843.9	3171.5	3013.2	3015.0	3039.0	3032.2	3016.7	3006.4
30°	5952.5	4893.1	3596.3	2942.7	2839.5	2832.6	2839.5	2810.3	2763.9	2760.4
32.5°	6332.6	4857.0	3309.1	2739.8	2655.5	2640.0	2634.9	2593.6	2540.3	2524.8
35°	6676.6	4724.5	3016.7	2578.1	2480.1	2445.7	2469.8	2456.0	2407.8	2395.8
37.5°	6927.7	4478.6	2753.5	2435.4	2354.5	2345.9	2361.4	2366.6	2309.8	2297.8
40°	7096.2	4144.9	2528.2	2315.0	2330.4	2297.8	2246.2	2210.1	2192.9	2187.7
42.5°	7232.1	3797.5	2339.0	2258.2	2335.6	2241.0	2129.2	2070.7	2101.7	2115.5
45°	7388.6	3458.7	2180.8	2187.7	2309.8	2175.7	2048.4	1991.6	2003.7	2007.1
47.5°	7603.6	3045.9	2010.5	2074.2	2223.8	2130.9	1998.5	1917.7	1860.9	1835.1
50°	7901.1	2557.5	1833.4	1946.9	2139.5	2098.3	1921.1	1835.1	1730.2	1706.1
52.5°	8107.5	2101.7	1687.2	1840.3	2063.9	2032.9	1859.2	1747.4	1637.3	1616.7
55°	7995.7	1745.7	1559.9	1721.6	1964.1	1952.1	1807.6	1658.0	1572.0	1554.8
57.5°	7436.8	1520.4	1461.9	1609.8	1842.0	1883.3	1738.8	1582.3	1520.4	1508.3
60°	6370.5	1379.3	1400.0	1534.1	1742.2	1814.5	1670.0	1541.0	1499.7	1491.1
62.5°	4942.9	1284.8	1353.5	1479.1	1664.8	1766.3	1632.2	1535.9	1520.4	1510.1
65°	3541.2	1209.1	1303.7	1424.1	1594.3	1721.6	1618.4	1529.0	1532.4	1523.8
67.5°	2406.1	1142.0	1243.5	1362.1	1525.5	1682.0	1599.5	1504.9	1547.9	1537.6
70°	1683.8	1076.6	1173.0	1283.0	1439.5	1627.0	1565.1	1468.8	1465.3	1424.1
72.5°	1314.0	990.7	1076.6	1173.0	1329.5	1549.6	1496.3	1387.9	1331.2	1288.2
73°	1253.8	970.0	1052.6	1148.9	1305.4	1530.7	1477.4	1365.6	1302.0	1262.4
75°	1037.1	880.6	956.3	1042.2	1202.2	1441.3	1384.5	1264.1	1183.3	1159.2
77.5°	815.2	753.3	825.5	902.9	1059.4	1310.6	1246.9	1131.7	1087.0	1066.3
80°	603.7	624.3	688.0	756.7	918.4	1171.2	1114.5	999.3	1198.8	1148.9
82.5°	424.8	473.0	531.4	593.4	770.5	1035.4	966.6	847.9	877.1	729.2
85°	251.1	309.6	364.6	417.9	555.5	858.2	798.0	675.9	553.8	528.0
87.5°	146.2	172.0	187.5	242.5	381.8	646.7	562.4	500.5	287.2	194.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)