

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: P192326

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192326  
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-08-LED-E1-T4FT-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 38774 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 334  
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

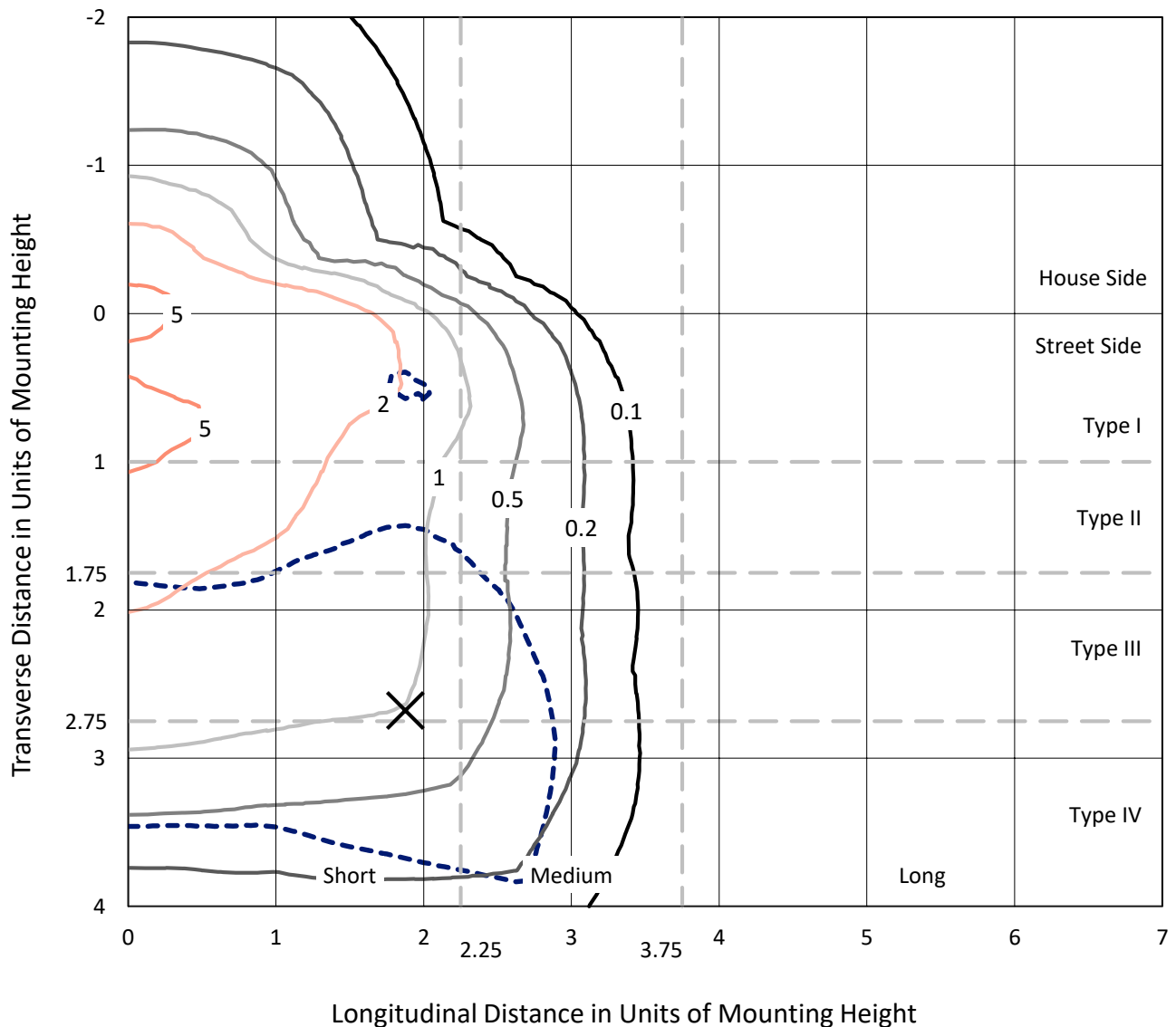


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

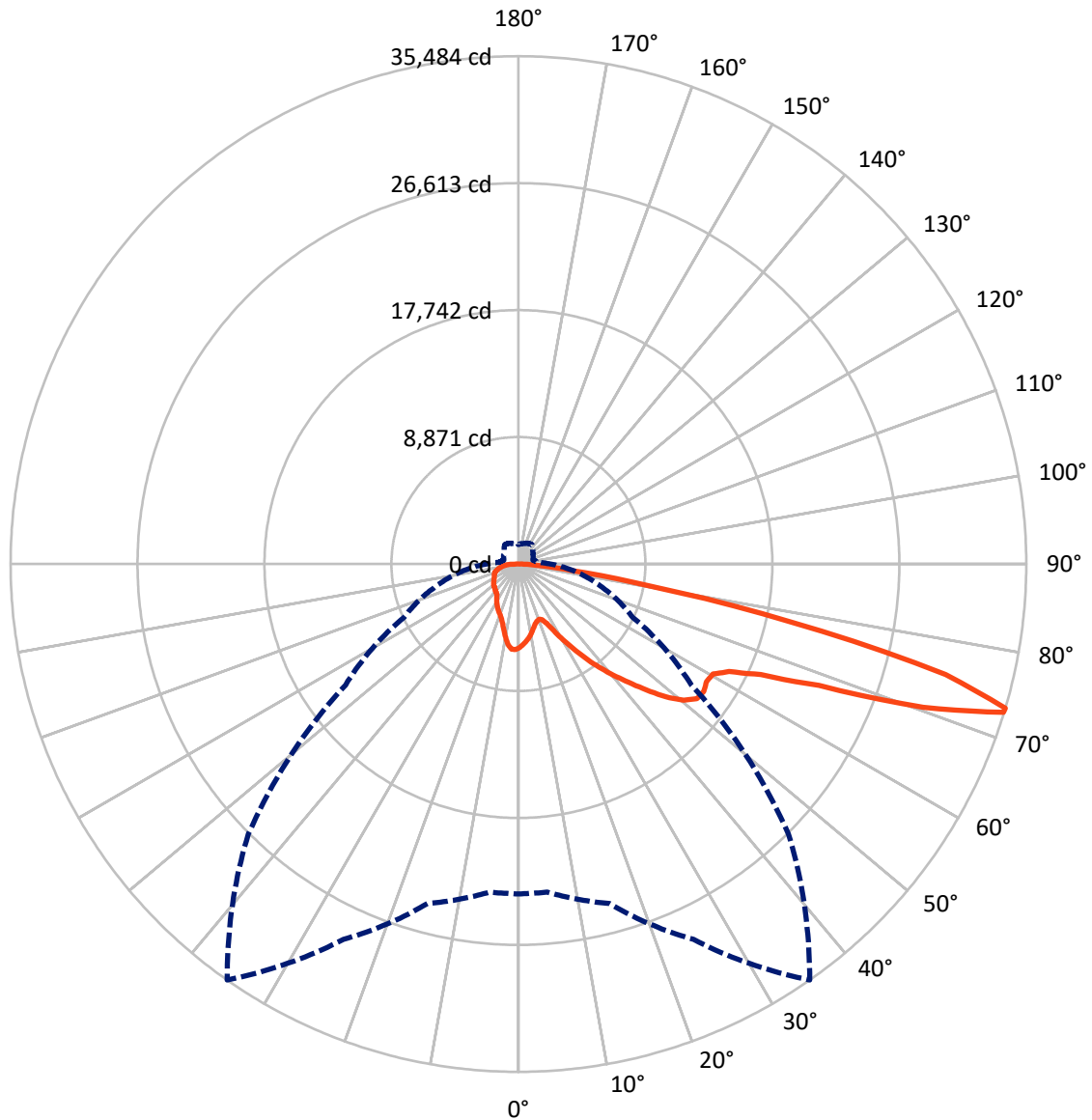


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Non-Cutoff

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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	7395.3	0.0	7395.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	31378.7	0.0	31378.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	38774.0	0.0	38774.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.8	1.4
10°-20°	1322.3	3.4
20°-30°	2137.7	5.5
30°-40°	3584.6	9.2
40°-50°	5525.4	14.3
50°-60°	7413.0	19.1
60°-70°	9875.6	25.5
70°-80°	7532.0	19.4
80°-90°	853.7	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°	38774.0	100.0
0°-180°	38774.0	100.0



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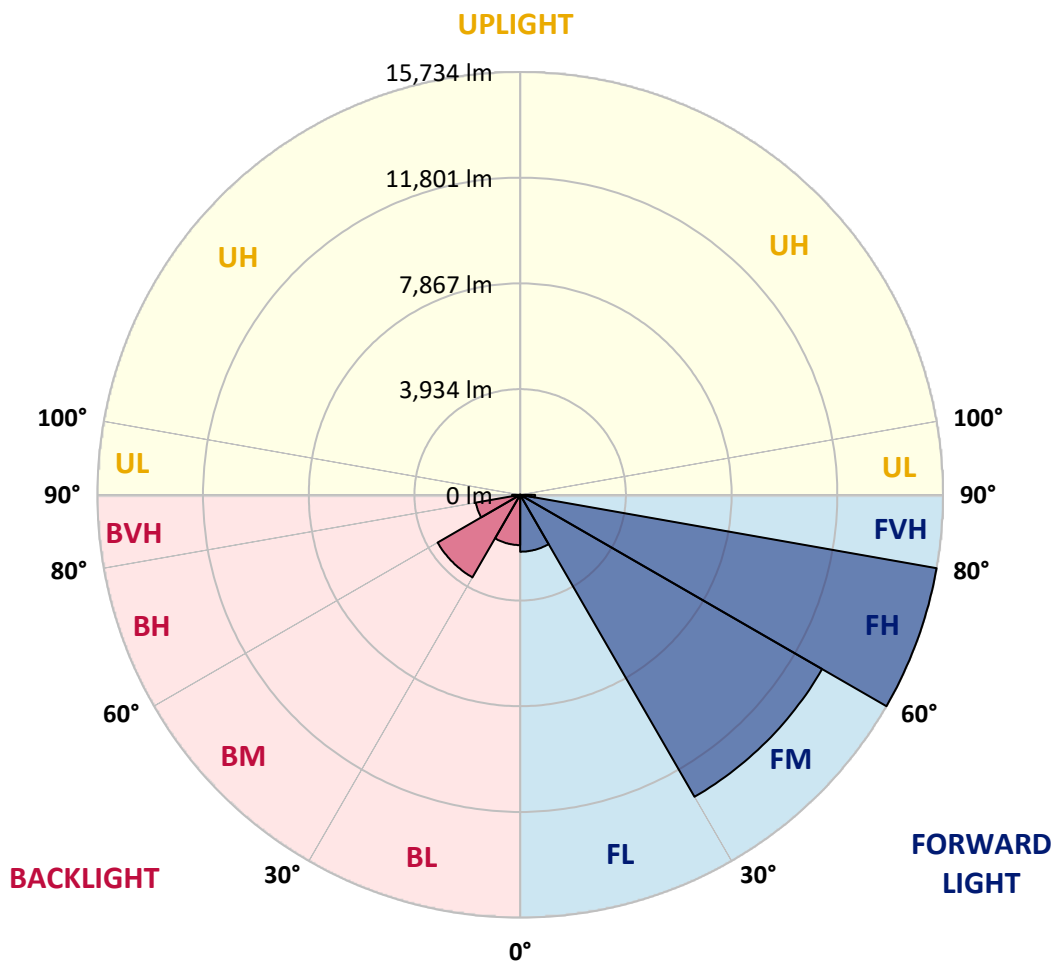
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.4	5.5			
FM	(30°-60°)	12974.0	33.5			
FH	(60°-80°)	15734.5	40.6			G5
FVH	(80°-90°)	551.8	1.4			G4/750
BL	(0°-30°)	1871.4	4.8	B3/2500		
BM	(30°-60°)	3548.9	9.2	B3/5000		
BH	(60°-80°)	1673.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	301.9	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°	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2
2.5°	5621.3	5632.5	5619.5	5636.2	5664.1	5693.9	5714.4	5744.2	5777.7	5824.3	5835.4
5°	5356.9	5373.7	5373.7	5403.5	5457.5	5505.9	5550.6	5599.0	5669.7	5749.8	5781.4
7.5°	5066.4	5075.8	5092.5	5137.2	5215.4	5284.3	5347.6	5425.8	5522.6	5628.8	5684.6
10°	4716.4	4729.4	4755.5	4818.8	4924.9	5019.9	5111.1	5219.1	5342.0	5474.2	5545.0
12.5°	4468.8	4465.0	4476.2	4522.7	4615.8	4731.3	4863.5	5001.3	5152.1	5306.6	5392.3
15°	4385.0	4364.5	4321.7	4310.5	4360.8	4476.2	4628.9	4798.3	4978.9	5165.1	5271.3
17.5°	4437.1	4401.7	4284.4	4198.8	4191.3	4278.8	4440.8	4630.7	4839.3	5066.4	5198.6
20°	4764.8	4681.0	4392.4	4193.2	4124.3	4167.1	4308.6	4509.7	4755.5	5057.1	5226.6
22.5°	5548.7	5425.8	4813.2	4442.7	4209.9	4157.8	4263.9	4478.1	4764.8	5172.6	5388.6
25°	6690.1	6515.1	5535.7	5064.6	4584.2	4306.8	4331.0	4550.7	4897.0	5440.7	5701.4
27.5°	7591.3	7477.7	6479.7	5941.6	5265.7	4708.9	4548.8	4733.2	5167.0	5880.1	6146.4
30°	8127.5	8058.6	7488.9	6935.9	6135.2	5349.5	4965.9	5075.8	5589.7	6489.0	6708.7
32.5°	8749.4	8708.5	8429.2	7920.9	7073.7	6191.1	5626.9	5587.8	6155.7	7220.8	7321.3
35°	9393.7	9380.7	9216.8	8851.8	8081.0	7300.8	6503.9	6239.5	6772.0	7980.4	7917.1
37.5°	9993.2	9970.9	9875.9	9663.7	9134.9	8492.5	7397.6	6907.9	7436.7	8706.6	8425.5
40°	11097.4	10922.4	10596.5	10436.4	10199.9	9496.1	8107.1	7531.7	8125.7	9399.3	8864.9
42.5°	12443.6	12158.7	11551.7	11332.0	11298.5	10287.4	8591.2	8136.8	8820.2	10086.3	9296.9
45°	13503.1	13234.9	12711.7	12434.3	12557.2	11004.3	9077.1	8783.0	9535.2	10806.9	9741.9
47.5°	14633.3	14212.5	13519.8	13603.6	13871.7	11682.1	9572.4	9477.5	10319.1	11613.2	10294.9
50°	14674.3	14352.1	14048.6	14549.5	14966.6	12305.8	10192.5	10205.5	11278.0	12627.9	11030.4
52.5°	13823.3	13754.4	14236.7	15024.3	15625.7	12799.2	10898.2	10957.7	12505.1	13793.5	11838.5
55°	13525.4	13447.2	14003.9	14858.6	15715.1	13207.0	11663.4	11771.4	13989.1	15022.4	12626.1
57.5°	14251.6	14078.4	14115.7	14780.4	15497.3	13653.9	12497.6	12715.5	15601.5	16096.8	13132.5
60°	16281.1	15910.6	15206.8	15190.0	15614.6	14324.2	13462.1	13728.4	17277.3	16610.7	12935.2
62.5°	19128.1	18757.6	17439.3	16580.9	16517.6	15430.2	14646.3	14717.1	18245.5	15914.3	11730.5
65°	22209.7	21878.3	20405.4	19193.3	18608.6	17262.4	16022.3	15158.4	17929.0	13998.4	9622.7
67.5°	25950.4	25594.8	24328.6	23209.6	22647.3	20219.2	16988.7	14735.7	15919.9	10844.2	6917.3
70°	28566.5	28203.4	27704.4	28611.2	29987.2	24485.0	17113.5	13017.1	11890.6	7207.7	4163.4
72.5°	25153.5	24984.0	25894.5	29713.5	35444.6	27073.2	15469.3	9477.5	6906.1	3826.4	2409.4
73°	23045.7	23008.5	24561.4	28940.7	35483.7	26674.7	14748.7	8809.0	5923.0	3385.1	2202.7
75°	10406.6	10706.4	14110.1	22105.4	30828.8	21980.7	10380.5	5053.4	3346.0	2338.6	1662.7
77.5°	2500.6	2604.9	4414.8	10497.8	19468.9	13099.0	4703.4	2498.8	2139.4	1651.6	1214.0
80°	1065.1	1100.4	1700.0	3878.5	9166.5	5275.0	2167.3	1673.9	1480.3	1152.6	850.9
82.5°	592.1	629.3	964.5	1759.6	3699.8	1798.7	1322.0	1165.6	973.8	694.5	553.0
85°	335.2	355.6	564.2	983.1	1567.8	722.4	791.3	774.6	549.3	357.5	271.8
87.5°	158.3	171.3	271.8	456.2	614.5	283.0	402.2	443.2	344.5	217.9	141.5
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°	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2
2.5°	5848.5	5882.0	5921.1	5941.6	5960.2	5982.5	6004.9	6004.9	6008.6	6010.5
5°	5807.5	5876.4	5937.9	5963.9	5969.5	5969.5	5963.9	5934.1	5908.1	5919.2
7.5°	5721.9	5822.4	5874.5	5865.2	5794.5	5712.6	5643.7	5559.9	5517.0	5509.6
10°	5599.0	5714.4	5723.7	5630.6	5455.6	5280.6	5135.3	4993.8	4926.8	4910.0
12.5°	5463.0	5569.2	5509.6	5317.8	5036.7	4781.6	4597.2	4453.9	4390.5	4373.8
15°	5353.2	5425.8	5275.0	4973.3	4619.6	4349.6	4196.9	4090.8	4046.1	4033.0
17.5°	5295.5	5310.4	5034.8	4627.0	4250.9	4025.6	3930.6	3880.4	3863.6	3854.3
20°	5323.4	5219.1	4805.8	4304.9	3949.3	3791.0	3768.6	3755.6	3751.9	3746.3
22.5°	5463.0	5191.2	4595.4	3999.5	3684.9	3616.0	3634.6	3632.7	3629.0	3625.3
25°	5712.6	5215.4	4390.5	3709.1	3463.3	3448.4	3481.9	3481.9	3467.0	3467.0
27.5°	6042.1	5265.7	4161.5	3433.5	3262.2	3264.0	3290.1	3282.7	3265.9	3254.7
30°	6444.3	5297.3	3893.4	3185.8	3074.1	3066.7	3074.1	3042.5	2992.2	2988.5
32.5°	6855.8	5258.2	3582.4	2966.1	2874.9	2858.1	2852.6	2807.9	2750.1	2733.4
35°	7228.2	5114.9	3265.9	2791.1	2685.0	2647.7	2673.8	2658.9	2606.8	2593.7
37.5°	7500.1	4848.6	2981.0	2636.6	2549.0	2539.7	2556.5	2562.1	2500.6	2487.6
40°	7682.5	4487.4	2737.1	2506.2	2523.0	2487.6	2431.7	2392.6	2374.0	2368.4
42.5°	7829.6	4111.3	2532.3	2444.8	2528.6	2426.2	2305.1	2241.8	2275.3	2290.2
45°	7999.1	3744.4	2361.0	2368.4	2500.6	2355.4	2217.6	2156.2	2169.2	2172.9
47.5°	8231.8	3297.6	2176.7	2245.5	2407.5	2307.0	2163.6	2076.1	2014.7	1986.7
50°	8553.9	2768.8	1984.9	2107.8	2316.3	2271.6	2079.8	1986.7	1873.2	1847.1
52.5°	8777.4	2275.3	1826.6	1992.3	2234.4	2200.9	2012.8	1891.8	1772.6	1750.3
55°	8656.3	1889.9	1688.8	1863.8	2126.4	2113.3	1956.9	1794.9	1701.8	1683.2
57.5°	8051.2	1646.0	1582.7	1742.8	1994.2	2038.9	1882.5	1713.0	1646.0	1633.0
60°	6896.8	1493.3	1515.7	1660.9	1886.2	1964.4	1808.0	1668.3	1623.6	1614.3
62.5°	5351.3	1390.9	1465.4	1601.3	1802.4	1912.3	1767.0	1662.7	1646.0	1634.8
65°	3833.8	1309.0	1411.4	1541.7	1726.1	1863.8	1752.1	1655.3	1659.0	1649.7
67.5°	2604.9	1236.4	1346.2	1474.7	1651.6	1821.0	1731.6	1629.2	1675.8	1664.6
70°	1822.9	1165.6	1269.9	1389.0	1558.5	1761.4	1694.4	1590.1	1586.4	1541.7
72.5°	1422.6	1072.5	1165.6	1269.9	1439.3	1677.6	1619.9	1502.6	1441.2	1394.6
73°	1357.4	1050.2	1139.5	1243.8	1413.2	1657.2	1599.4	1478.4	1409.5	1366.7
75°	1122.8	953.3	1035.3	1128.4	1301.5	1560.3	1498.9	1368.6	1281.0	1255.0
77.5°	882.6	815.5	893.8	977.5	1147.0	1418.8	1349.9	1225.2	1176.8	1154.4
80°	653.6	675.9	744.8	819.3	994.3	1268.0	1206.6	1081.8	1297.8	1243.8
82.5°	459.9	512.0	575.4	642.4	834.2	1120.9	1046.4	918.0	949.6	789.5
85°	271.8	335.2	394.7	452.5	601.4	929.1	864.0	731.8	599.6	571.6
87.5°	158.3	186.2	203.0	262.5	413.4	700.1	608.9	541.8	311.0	210.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)