

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: P300471

Luminaire Tested: **GLNA-AF-10-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300471  
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: GLNA-AF-10-LED-E1-T4FT-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

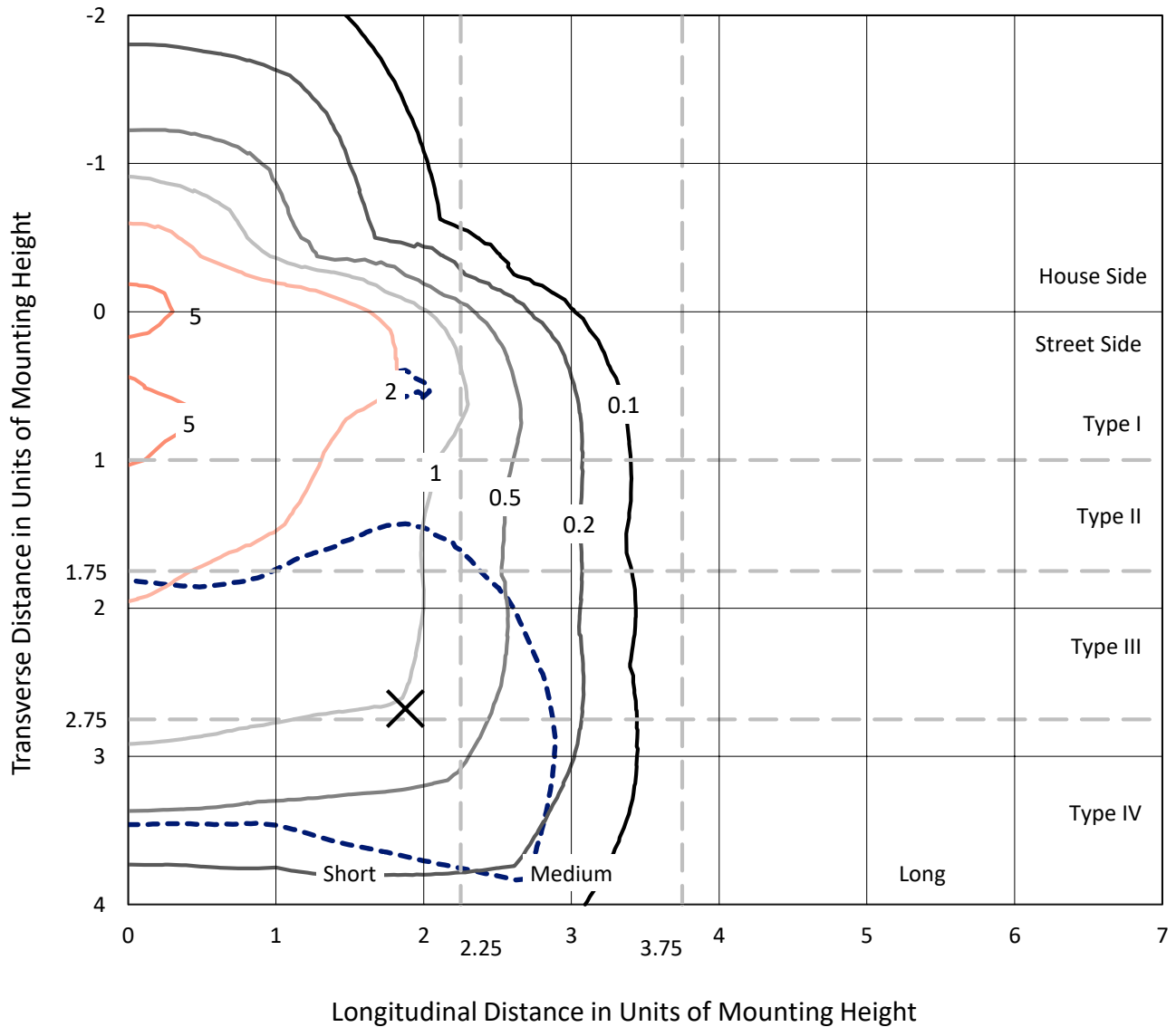
Lumens per Lamp: N/A  
Luminaire Lumens: 37640.3 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (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

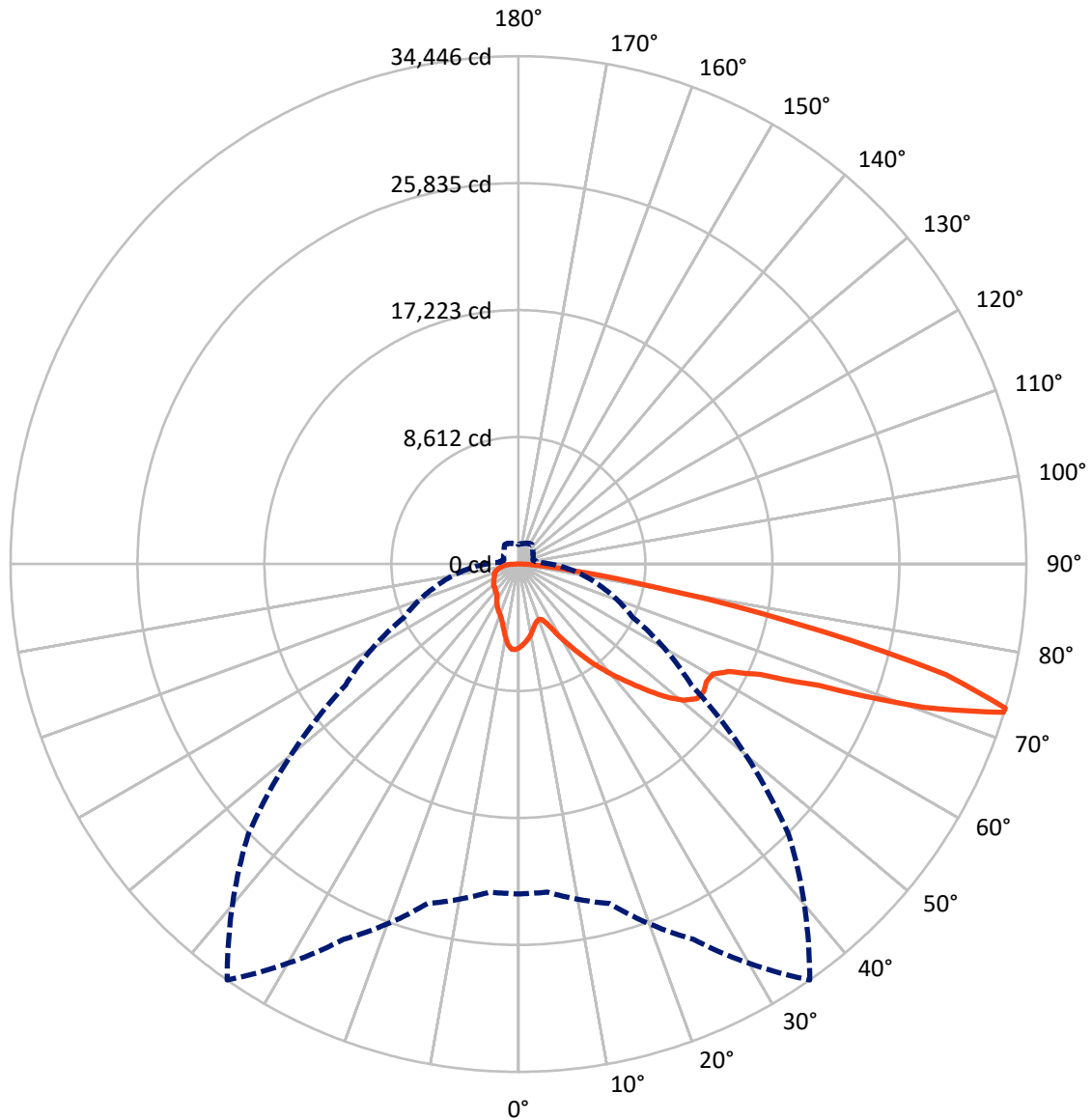
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	7179.0	0.0	7179.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	30461.3	0.0	30461.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	37640.3	0.0	37640.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.3	1.4
10°-20°	1283.6	3.4
20°-30°	2075.2	5.5
30°-40°	3479.8	9.2
40°-50°	5363.9	14.3
50°-60°	7196.2	19.1
60°-70°	9586.8	25.5
70°-80°	7311.8	19.4
80°-90°	828.8	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°	37640.3	100.0
0°-180°	37640.3	100.0

**Coefficient of Utilization**



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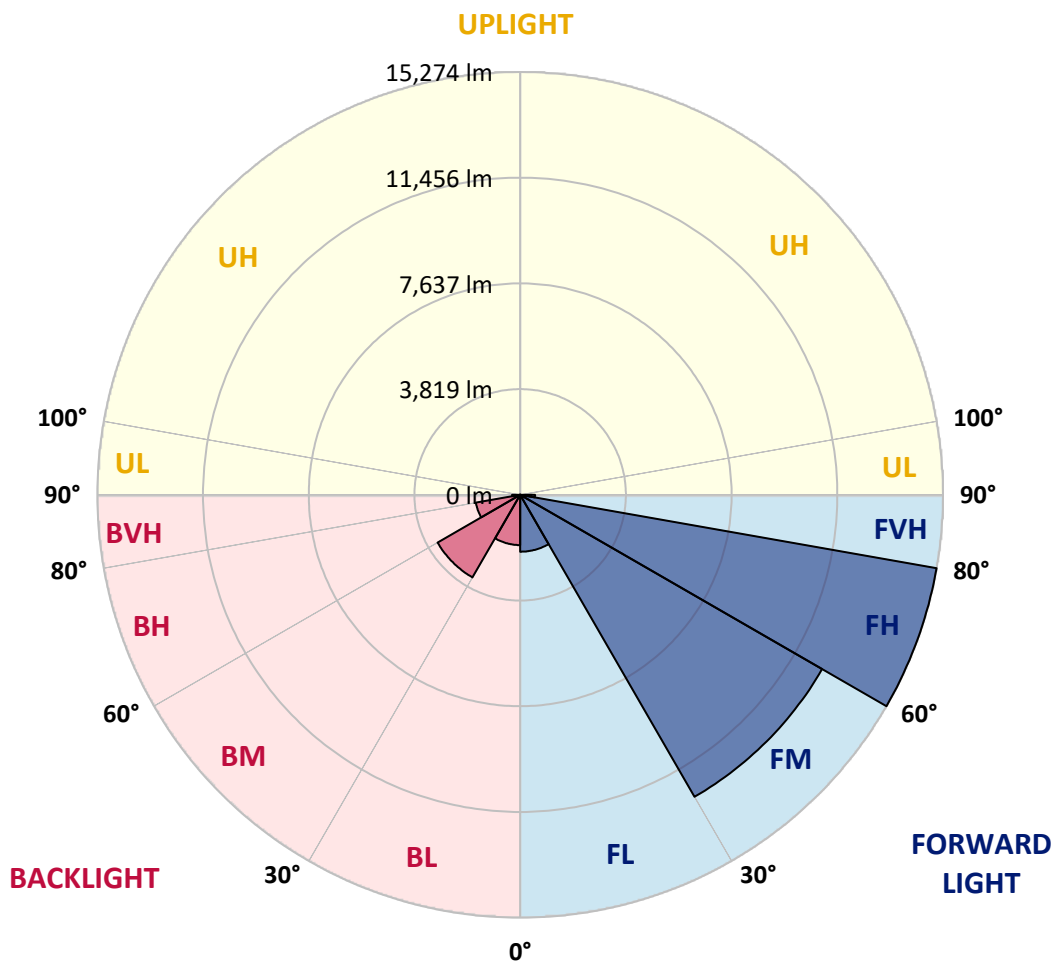
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2056.4	5.5			
FM	(30°-60°)	12594.7	33.5			
FH	(60°-80°)	15274.4	40.6			G5
FVH	(80°-90°)	535.7	1.4			G4/750
BL	(0°-30°)	1816.6	4.8	B3/2500		
BM	(30°-60°)	3445.1	9.2	B3/5000		
BH	(60°-80°)	1624.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	293.1	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°	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1
2.5°	5457.0	5467.8	5455.2	5471.4	5498.5	5527.5	5547.3	5576.3	5608.8	5654.0	5664.8
5°	5200.3	5216.6	5216.6	5245.5	5297.9	5344.9	5388.3	5435.3	5504.0	5581.7	5612.4
7.5°	4918.3	4927.4	4943.6	4987.0	5062.9	5129.8	5191.3	5267.2	5361.2	5464.2	5518.4
10°	4578.5	4591.1	4616.5	4677.9	4780.9	4873.1	4961.7	5066.5	5185.8	5314.2	5382.9
12.5°	4338.1	4334.5	4345.3	4390.5	4480.9	4593.0	4721.3	4855.0	5001.5	5151.5	5234.6
15°	4256.8	4236.9	4195.3	4184.5	4233.3	4345.3	4493.5	4658.0	4833.4	5014.1	5117.1
17.5°	4307.4	4273.0	4159.1	4076.0	4068.8	4153.7	4311.0	4495.3	4697.8	4918.3	5046.6
20°	4625.5	4544.2	4264.0	4070.6	4003.7	4045.3	4182.6	4377.9	4616.5	4909.3	5073.8
22.5°	5386.5	5267.2	4672.5	4312.8	4086.8	4036.2	4139.3	4347.1	4625.5	5021.3	5231.0
25°	6494.5	6324.6	5373.8	4916.5	4450.2	4180.8	4204.3	4417.6	4753.8	5281.6	5534.7
27.5°	7369.3	7259.1	6290.2	5767.9	5111.7	4571.3	4415.8	4594.8	5015.9	5708.2	5966.7
30°	7889.9	7823.0	7269.9	6733.1	5955.8	5193.1	4820.7	4927.4	5426.2	6299.3	6512.6
32.5°	8493.6	8453.9	8182.7	7689.3	6866.8	6010.1	5462.4	5424.4	5975.7	7009.6	7107.2
35°	9119.0	9106.4	8947.3	8593.0	7844.7	7087.4	6313.7	6057.1	6574.0	7747.1	7685.7
37.5°	9701.1	9679.4	9587.2	9381.1	8867.8	8244.2	7181.4	6706.0	7219.3	8452.1	8179.1
40°	10772.9	10603.0	10286.7	10131.3	9901.7	9218.4	7870.0	7311.5	7888.1	9124.5	8605.7
42.5°	12079.8	11803.2	11214.0	11000.7	10968.1	9986.7	8340.0	7898.9	8562.3	9791.4	9025.0
45°	13108.3	12848.0	12340.1	12070.7	12190.0	10682.6	8811.8	8526.2	9256.4	10491.0	9457.0
47.5°	14205.4	13796.9	13124.5	13205.9	13466.2	11340.5	9292.6	9200.4	10017.4	11273.6	9993.9
50°	14245.2	13932.5	13637.9	14124.1	14529.0	11946.0	9894.5	9907.1	10948.3	12258.7	10707.9
52.5°	13419.2	13352.3	13820.4	14585.0	15168.9	12425.0	10579.5	10637.4	12139.4	13390.2	11492.3
55°	13130.0	13054.0	13594.5	14424.2	15255.6	12820.9	11322.4	11427.3	13580.0	14583.2	12256.9
57.5°	13834.9	13666.8	13703.0	14348.2	15044.1	13254.7	12132.2	12343.7	15145.4	15626.2	12748.6
60°	15805.1	15445.4	14762.2	14745.9	15158.0	13905.4	13068.5	13327.0	16772.2	16125.1	12557.0
62.5°	18568.8	18209.1	16929.4	16096.1	16034.7	14979.1	14218.1	14286.8	17712.1	15449.0	11387.5
65°	21560.3	21238.6	19808.8	18632.1	18064.5	16757.7	15553.9	14715.2	17404.8	13589.1	9341.4
67.5°	25191.7	24846.4	23617.3	22531.0	21985.1	19628.1	16492.0	14304.9	15454.5	10527.1	6715.0
70°	27731.3	27378.8	26894.4	27774.6	29110.4	23769.1	16613.1	12636.5	11542.9	6997.0	4041.7
72.5°	24418.0	24253.6	25137.4	28844.7	34408.3	26281.6	15017.0	9200.4	6704.2	3714.5	2339.0
73°	22371.9	22335.8	23843.2	28094.6	34446.3	25894.8	14317.5	8551.5	5749.8	3286.1	2138.3
75°	10102.3	10393.3	13697.5	21459.1	29927.4	21338.0	10077.0	4905.7	3248.1	2270.3	1614.1
77.5°	2427.5	2528.7	4285.7	10190.9	18899.6	12716.0	4565.8	2425.7	2076.9	1603.3	1178.5
80°	1033.9	1068.3	1650.3	3765.1	8898.5	5120.8	2104.0	1625.0	1437.0	1118.9	826.0
82.5°	574.8	610.9	936.3	1708.1	3591.6	1746.1	1283.4	1131.5	945.3	674.2	536.8
85°	325.4	345.2	547.7	954.4	1521.9	701.3	768.2	751.9	533.2	347.0	263.9
87.5°	153.6	166.3	263.9	442.8	596.5	274.7	390.4	430.2	334.4	211.5	137.4
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°	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1	5681.1
2.5°	5677.5	5710.0	5748.0	5767.9	5785.9	5807.6	5829.3	5829.3	5832.9	5834.7
5°	5637.7	5704.6	5764.2	5789.5	5795.0	5795.0	5789.5	5760.6	5735.3	5746.2
7.5°	5554.6	5652.2	5702.8	5693.7	5625.1	5545.5	5478.7	5397.3	5355.7	5348.5
10°	5435.3	5547.3	5556.4	5466.0	5296.1	5126.2	4985.2	4847.8	4782.7	4766.5
12.5°	5303.3	5406.3	5348.5	5162.3	4889.4	4641.8	4462.8	4323.6	4262.2	4245.9
15°	5196.7	5267.2	5120.8	4827.9	4484.5	4222.4	4074.2	3971.2	3927.8	3915.1
17.5°	5140.6	5155.1	4887.6	4491.7	4126.6	3907.9	3815.7	3766.9	3750.6	3741.6
20°	5167.8	5066.5	4665.3	4179.0	3833.8	3680.1	3658.5	3645.8	3642.2	3636.8
22.5°	5303.3	5039.4	4461.0	3882.6	3577.1	3510.2	3528.3	3526.5	3522.9	3519.3
25°	5545.5	5062.9	4262.2	3600.6	3362.0	3347.6	3380.1	3380.1	3365.6	3365.6
27.5°	5865.5	5111.7	4039.8	3333.1	3166.8	3168.6	3193.9	3186.7	3170.4	3159.6
30°	6255.9	5142.4	3779.6	3092.7	2984.2	2977.0	2984.2	2953.5	2904.7	2901.1
32.5°	6655.4	5104.5	3477.7	2879.4	2790.8	2774.6	2769.1	2725.8	2669.7	2653.5
35°	7016.9	4965.3	3170.4	2709.5	2606.5	2570.3	2595.6	2581.2	2530.6	2517.9
37.5°	7280.8	4706.8	2893.9	2559.5	2474.5	2465.5	2481.8	2487.2	2427.5	2414.9
40°	7457.9	4356.2	2657.1	2432.9	2449.2	2414.9	2360.6	2322.7	2304.6	2299.2
42.5°	7600.7	3991.0	2458.3	2373.3	2454.6	2355.2	2237.7	2176.3	2208.8	2223.3
45°	7765.2	3635.0	2292.0	2299.2	2427.5	2286.5	2152.8	2093.1	2105.8	2109.4
47.5°	7991.1	3201.2	2113.0	2179.9	2337.1	2239.5	2100.4	2015.4	1955.8	1928.6
50°	8303.8	2687.8	1926.8	2046.1	2248.6	2205.2	2019.0	1928.6	1818.4	1793.1
52.5°	8520.7	2208.8	1773.2	1934.1	2169.0	2136.5	1953.9	1836.5	1720.8	1699.1
55°	8403.2	1834.7	1639.4	1809.3	2064.2	2051.6	1899.7	1742.5	1652.1	1634.0
57.5°	7815.8	1597.9	1536.4	1691.9	1935.9	1979.3	1827.4	1662.9	1597.9	1585.2
60°	6695.1	1449.6	1471.3	1612.3	1831.0	1907.0	1755.1	1619.6	1576.2	1567.1
62.5°	5194.9	1350.2	1422.5	1554.5	1749.7	1856.3	1715.4	1614.1	1597.9	1587.0
65°	3721.7	1270.7	1370.1	1496.6	1675.6	1809.3	1700.9	1606.9	1610.5	1601.5
67.5°	2528.7	1200.2	1306.9	1431.6	1603.3	1767.8	1681.0	1581.6	1626.8	1615.9
70°	1769.6	1131.5	1232.7	1348.4	1512.9	1709.9	1644.9	1543.6	1540.0	1496.6
72.5°	1381.0	1041.1	1131.5	1232.7	1397.2	1628.6	1572.6	1458.7	1399.0	1353.8
73°	1317.7	1019.5	1106.2	1207.4	1371.9	1608.7	1552.7	1435.2	1368.3	1326.7
75°	1089.9	925.5	1005.0	1095.4	1263.5	1514.7	1455.1	1328.5	1243.6	1218.3
77.5°	856.8	791.7	867.6	949.0	1113.4	1377.3	1310.5	1189.4	1142.4	1120.7
80°	634.4	656.1	723.0	795.3	965.2	1230.9	1171.3	1050.2	1259.9	1207.4
82.5°	446.5	497.1	558.5	623.6	809.8	1088.1	1015.8	891.1	921.8	766.4
85°	263.9	325.4	383.2	439.2	583.8	902.0	838.7	710.4	582.0	554.9
87.5°	153.6	180.8	197.0	254.9	401.3	679.6	591.1	526.0	301.9	204.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)