

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: P300405

Luminaire Tested: **GLNA-AF-09-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300405  
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-09-LED-E1-T4FT-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41692.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 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): 374  
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

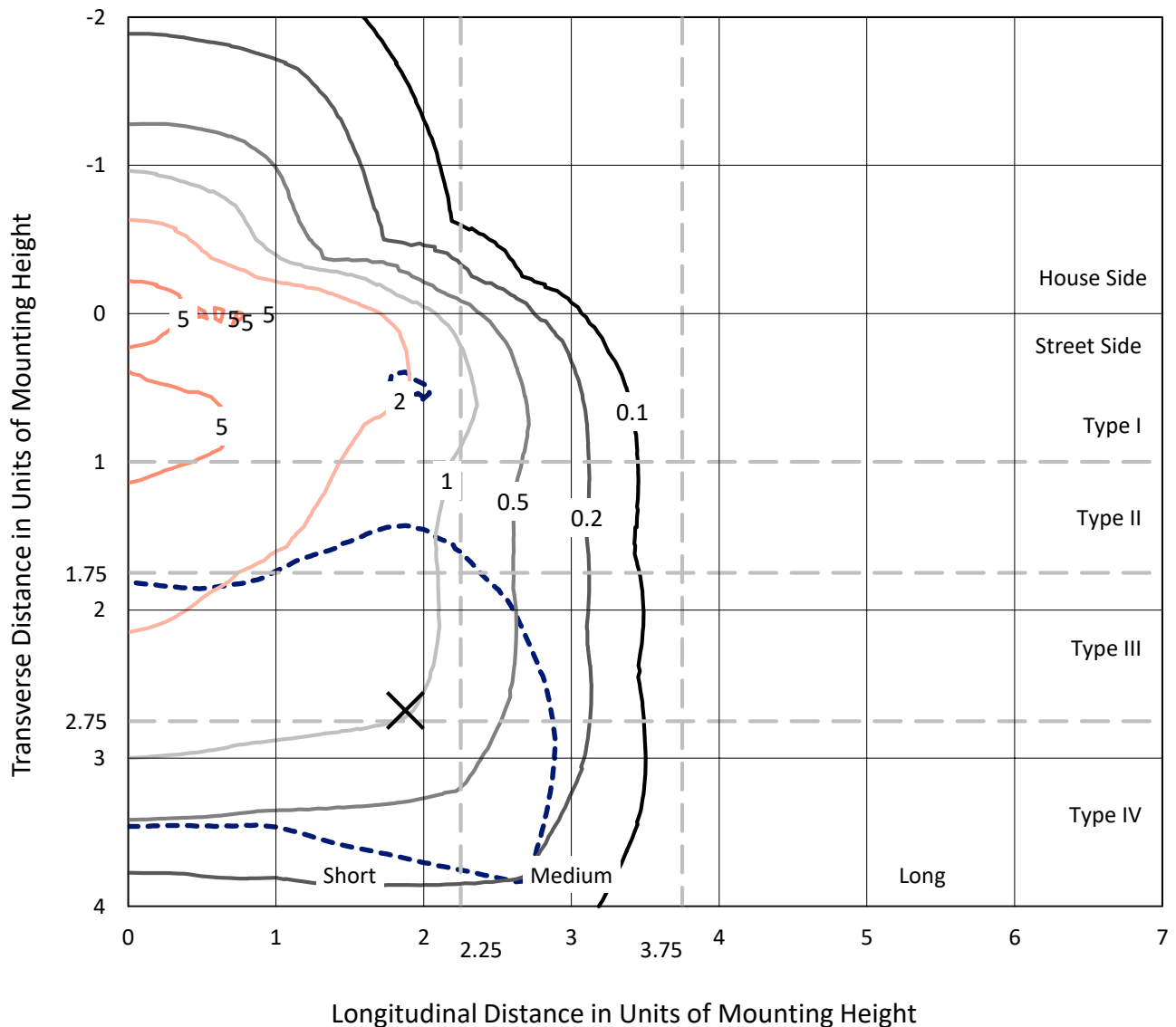


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### Iso-Footcandle Lines of Horizontal Illumination

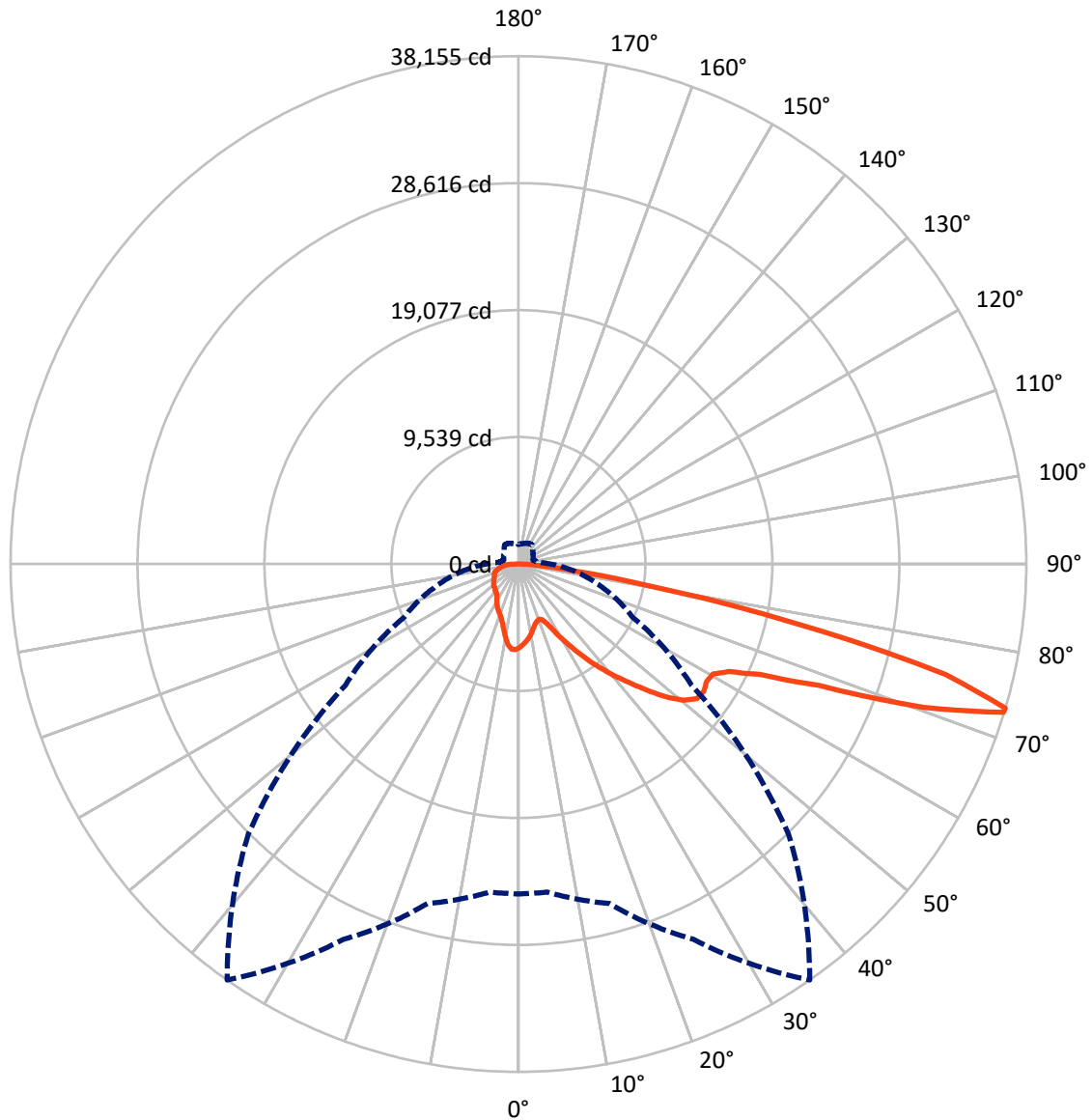
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	7952.0	0.0	7952.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	33740.8	0.0	33740.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	41692.8	0.0	41692.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.7	1.4
10°-20°	1421.8	3.4
20°-30°	2298.6	5.5
30°-40°	3854.4	9.2
40°-50°	5941.4	14.3
50°-60°	7971.0	19.1
60°-70°	10619.0	25.5
70°-80°	8099.0	19.4
80°-90°	918.0	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°	41692.8	100.0
0°-180°	41692.8	100.0

**Coefficient of Utilization**



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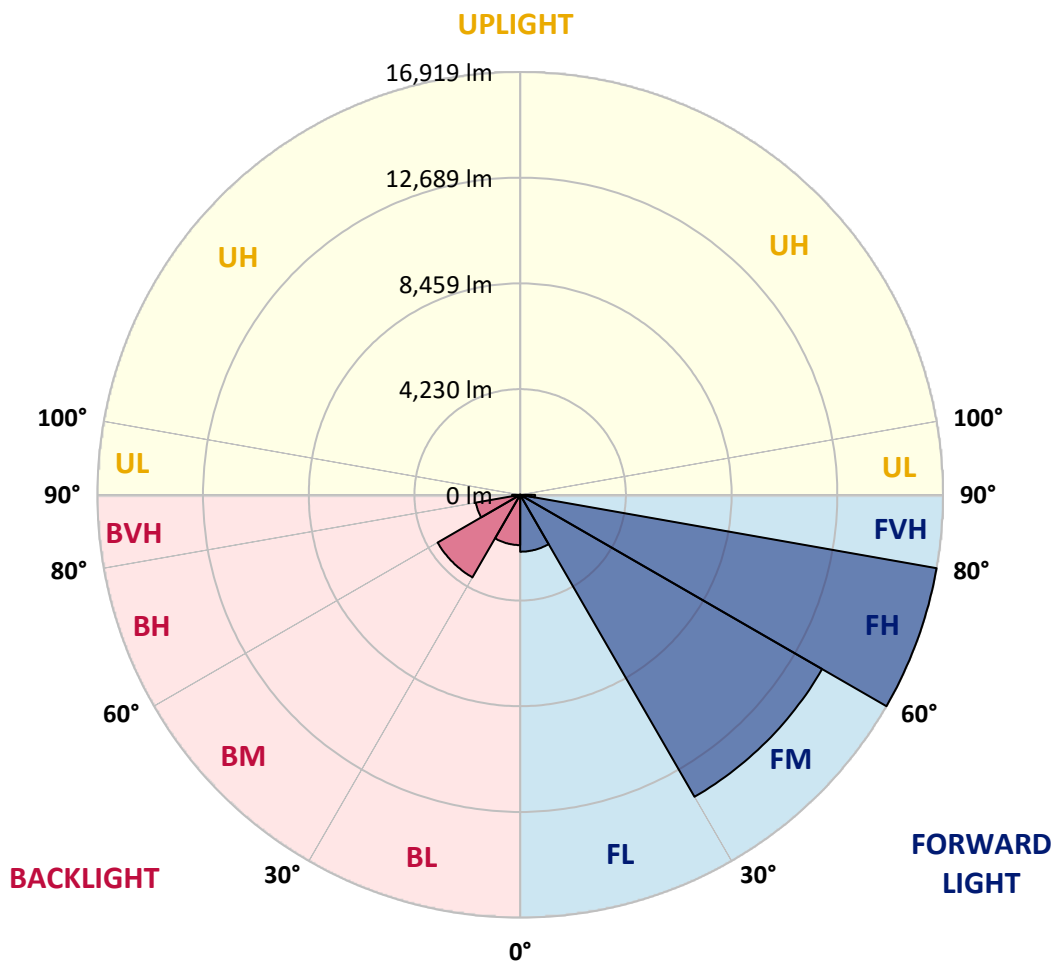
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2277.8	5.5			
FM	(30°-60°)	13950.7	33.5			
FH	(60°-80°)	16918.9	40.6			G5
FVH	(80°-90°)	593.4	1.4			G4/750
BL	(0°-30°)	2012.2	4.8	B3/2500		
BM	(30°-60°)	3816.1	9.2	B3/5000		
BH	(60°-80°)	1799.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	324.6	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°	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7
2.5°	6044.5	6056.5	6042.5	6060.5	6090.5	6122.6	6144.6	6176.6	6212.6	6262.7	6274.7
5°	5760.2	5778.2	5778.2	5810.2	5868.3	5920.3	5968.4	6020.4	6096.5	6182.6	6216.7
7.5°	5447.8	5457.8	5475.9	5523.9	5608.0	5682.1	5750.2	5834.2	5938.4	6052.5	6112.5
10°	5071.4	5085.4	5113.5	5181.5	5295.7	5397.8	5495.9	5612.0	5744.1	5886.3	5962.4
12.5°	4805.1	4801.1	4813.1	4863.2	4963.3	5087.4	5229.6	5377.8	5539.9	5706.1	5798.2
15°	4715.0	4693.0	4647.0	4635.0	4689.0	4813.1	4977.3	5159.5	5353.7	5553.9	5668.1
17.5°	4771.1	4733.1	4606.9	4514.8	4506.8	4600.9	4775.1	4979.3	5203.6	5447.8	5590.0
20°	5123.5	5033.4	4723.1	4508.8	4434.7	4480.8	4633.0	4849.2	5113.5	5437.8	5620.0
22.5°	5966.4	5834.2	5175.5	4777.1	4526.8	4470.8	4584.9	4815.2	5123.5	5562.0	5794.2
25°	7193.7	7005.5	5952.4	5445.8	4929.3	4631.0	4657.0	4893.2	5265.6	5850.3	6130.6
27.5°	8162.7	8040.6	6967.5	6388.8	5662.1	5063.4	4891.2	5089.4	5555.9	6322.8	6609.1
30°	8739.3	8665.3	8052.6	7458.0	6597.1	5752.2	5339.7	5457.8	6010.4	6977.5	7213.7
32.5°	9408.1	9364.0	9063.7	8517.1	7606.1	6657.1	6050.5	6008.4	6619.1	7764.3	7872.4
35°	10100.8	10086.8	9910.6	9518.2	8689.3	7850.4	6993.5	6709.2	7281.8	8581.2	8513.1
37.5°	10745.5	10721.5	10619.4	10391.1	9822.5	9131.8	7954.5	7427.9	7996.6	9362.0	9059.7
40°	11932.8	11744.6	11394.2	11222.0	10967.7	10210.9	8717.3	8098.7	8737.3	10106.8	9532.2
42.5°	13380.3	13074.0	12421.3	12185.0	12149.0	11061.8	9237.9	8749.4	9484.1	10845.6	9996.7
45°	14519.5	14231.2	13668.6	13370.3	13502.4	11832.7	9760.4	9444.1	10253.0	11620.4	10475.2
47.5°	15734.8	15282.3	14537.6	14627.6	14916.0	12561.4	10293.0	10190.9	11095.9	12487.4	11069.8
50°	15778.9	15432.5	15106.2	15644.7	16093.2	13232.2	10959.7	10973.7	12127.0	13578.5	11860.7
52.5°	14863.9	14789.8	15308.4	16155.3	16802.0	13762.7	11718.5	11782.6	13446.4	14831.9	12729.6
55°	14543.6	14459.5	15058.1	15977.1	16898.1	14201.2	12541.4	12657.5	15042.1	16153.3	13576.5
57.5°	15324.4	15138.2	15178.2	15893.0	16663.8	14681.7	13438.4	13672.6	16775.9	17308.5	14121.1
60°	17506.7	17108.3	16351.5	16333.5	16790.0	15402.5	14475.5	14761.8	18577.9	17861.1	13908.9
62.5°	20568.0	20169.6	18752.1	17829.1	17761.0	16591.8	15748.8	15824.9	19619.0	17112.3	12613.5
65°	23881.5	23525.2	21941.5	20638.1	20009.4	18561.9	17228.4	16299.4	19278.6	15052.1	10347.1
67.5°	27903.9	27521.4	26160.0	24956.7	24352.1	21741.3	18267.5	15845.0	17118.3	11660.5	7438.0
70°	30716.9	30326.4	29789.9	30764.9	32244.5	26328.2	18401.7	13997.0	12785.7	7750.3	4476.8
72.5°	27046.9	26864.7	27843.8	31950.2	38112.8	29111.1	16633.8	10190.9	7425.9	4114.4	2590.8
73°	24780.5	24740.5	26410.3	31119.3	38154.8	28682.7	15859.0	9472.1	6368.8	3639.9	2368.5
75°	11190.0	11512.3	15172.2	23769.4	33149.5	23635.3	11161.9	5433.8	3597.8	2514.7	1787.9
77.5°	2688.9	2801.0	4747.1	11288.1	20934.4	14085.1	5057.4	2686.9	2300.5	1775.9	1305.4
80°	1145.2	1183.3	1828.0	4170.5	9856.5	5672.1	2330.5	1799.9	1591.7	1239.3	915.0
82.5°	636.7	676.7	1037.1	1892.0	3978.3	1934.1	1421.5	1253.3	1047.1	746.8	594.6
85°	360.4	382.4	606.6	1057.1	1685.8	776.8	850.9	832.9	590.6	384.4	292.3
87.5°	170.2	184.2	292.3	490.5	660.7	304.3	432.5	476.5	370.4	234.3	152.2
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°	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7	6292.7
2.5°	6288.7	6324.8	6366.8	6388.8	6408.9	6432.9	6456.9	6456.9	6460.9	6462.9
5°	6244.7	6318.8	6384.8	6412.9	6418.9	6418.9	6412.9	6380.8	6352.8	6364.8
7.5°	6152.6	6260.7	6316.8	6306.7	6230.7	6142.6	6068.5	5978.4	5932.3	5924.3
10°	6020.4	6144.6	6154.6	6054.5	5866.3	5678.1	5521.9	5369.7	5297.7	5279.6
12.5°	5874.3	5988.4	5924.3	5718.1	5415.8	5141.5	4943.3	4789.1	4721.1	4703.0
15°	5756.2	5834.2	5672.1	5347.7	4967.3	4677.0	4512.8	4398.7	4350.7	4336.6
17.5°	5694.1	5710.1	5413.8	4975.3	4570.9	4328.6	4226.5	4172.5	4154.4	4144.4
20°	5724.1	5612.0	5167.5	4629.0	4246.5	4076.4	4052.3	4038.3	4034.3	4028.3
22.5°	5874.3	5582.0	4941.3	4300.6	3962.2	3888.2	3908.2	3906.2	3902.2	3898.2
25°	6142.6	5608.0	4721.1	3988.3	3724.0	3708.0	3744.0	3744.0	3728.0	3728.0
27.5°	6497.0	5662.1	4474.8	3691.9	3507.8	3509.8	3537.8	3529.8	3511.8	3499.7
30°	6929.4	5696.1	4186.5	3425.7	3305.5	3297.5	3305.5	3271.5	3217.4	3213.4
32.5°	7371.9	5654.0	3852.1	3189.4	3091.3	3073.3	3067.3	3019.2	2957.2	2939.1
35°	7772.3	5499.9	3511.8	3001.2	2887.1	2847.0	2875.1	2859.1	2803.0	2789.0
37.5°	8064.6	5213.6	3205.4	2835.0	2740.9	2730.9	2748.9	2754.9	2688.9	2674.9
40°	8260.8	4825.2	2943.1	2694.9	2712.9	2674.9	2614.8	2572.8	2552.7	2546.7
42.5°	8419.0	4420.7	2722.9	2628.8	2718.9	2608.8	2478.7	2410.6	2446.6	2462.6
45°	8601.2	4026.3	2538.7	2546.7	2688.9	2532.7	2384.6	2318.5	2332.5	2336.5
47.5°	8851.5	3545.8	2340.5	2414.6	2588.8	2480.7	2326.5	2232.4	2166.3	2136.3
50°	9197.8	2977.2	2134.3	2266.4	2490.7	2442.6	2236.4	2136.3	2014.2	1986.1
52.5°	9438.1	2446.6	1964.1	2142.3	2402.6	2366.5	2164.3	2034.2	1906.0	1882.0
55°	9308.0	2032.2	1815.9	2004.1	2286.4	2272.4	2104.3	1930.1	1830.0	1809.9
57.5°	8657.3	1769.9	1701.8	1874.0	2144.3	2192.3	2024.2	1842.0	1769.9	1755.9
60°	7415.9	1605.7	1629.7	1785.9	2028.2	2112.3	1944.1	1793.9	1745.9	1735.9
62.5°	5754.2	1495.6	1575.7	1721.8	1938.1	2056.2	1900.0	1787.9	1769.9	1757.9
65°	4122.4	1407.5	1517.6	1657.8	1856.0	2004.1	1884.0	1779.9	1783.9	1773.9
67.5°	2801.0	1329.4	1447.5	1585.7	1775.9	1958.1	1862.0	1751.9	1801.9	1789.9
70°	1960.1	1253.3	1365.5	1493.6	1675.8	1894.0	1821.9	1709.8	1705.8	1657.8
72.5°	1529.6	1153.2	1253.3	1365.5	1547.7	1803.9	1741.9	1615.7	1549.7	1499.6
73°	1459.6	1129.2	1225.3	1337.4	1519.6	1781.9	1719.8	1589.7	1515.6	1469.6
75°	1207.3	1025.1	1113.2	1213.3	1399.5	1677.8	1611.7	1471.6	1377.5	1349.4
77.5°	949.0	876.9	961.0	1051.1	1233.3	1525.6	1451.6	1317.4	1265.4	1241.3
80°	702.8	726.8	800.9	880.9	1069.1	1363.5	1297.4	1163.2	1395.5	1337.4
82.5°	494.5	550.6	618.7	690.7	897.0	1205.3	1125.2	987.1	1021.1	848.9
85°	292.3	360.4	424.5	486.5	646.7	999.1	929.0	786.8	644.7	614.7
87.5°	170.2	200.2	218.2	282.3	444.5	752.8	654.7	582.6	334.4	226.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)