

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: P300333

Luminaire Tested: **GLNA-AF-07-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300333
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-07-LED-E1-T4FT-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40831.6 lumens
Efficiency: N/A
Efficacy: 104.4 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

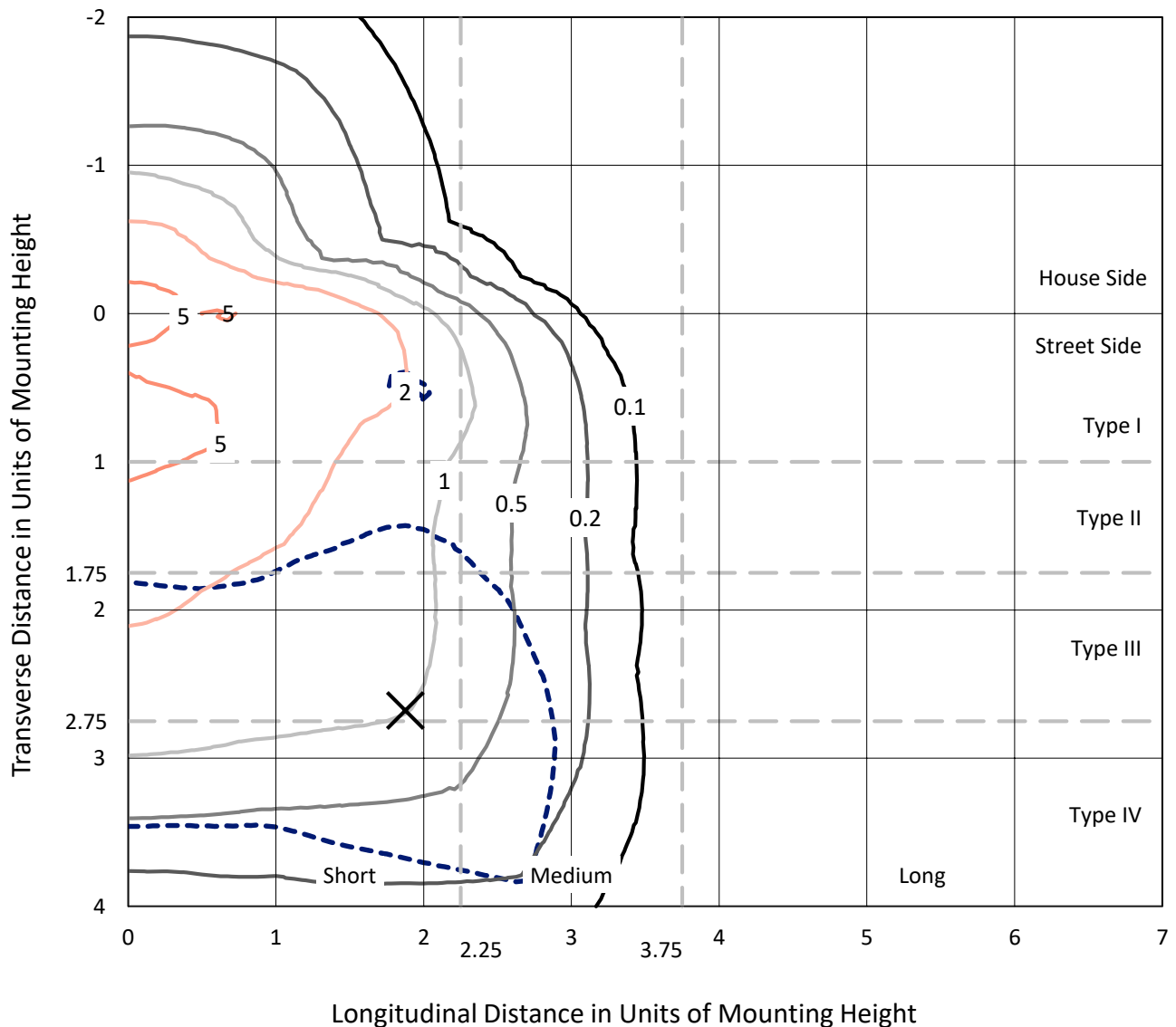
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

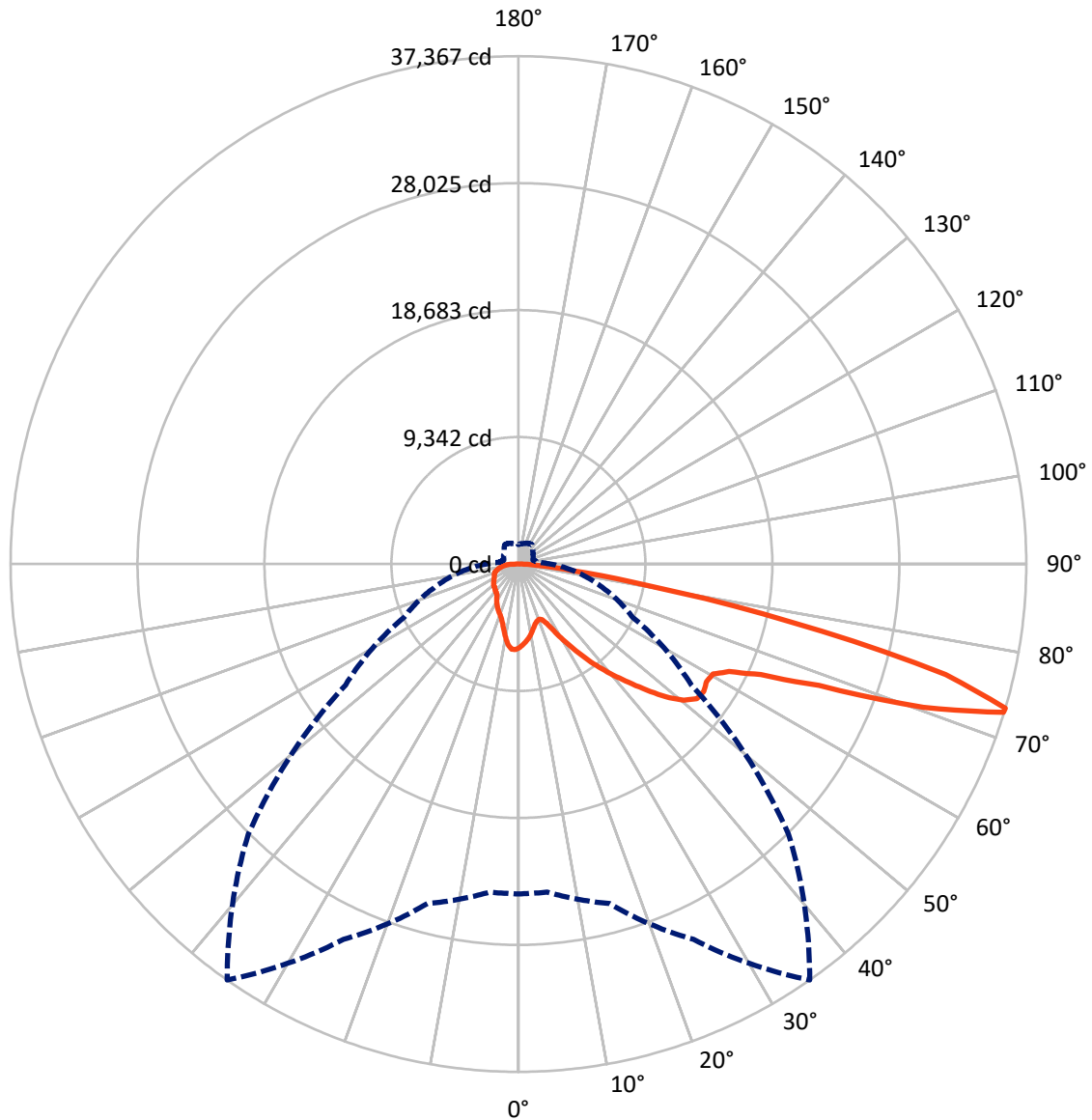
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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
House Side	Lumens	7787.7	0.0	7787.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33043.9	0.0	33043.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	40831.6	0.0	40831.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.9	1.4
10°-20°	1392.4	3.4
20°-30°	2251.1	5.5
30°-40°	3774.8	9.2
40°-50°	5818.6	14.3
50°-60°	7806.3	19.1
60°-70°	10399.6	25.5
70°-80°	7931.8	19.4
80°-90°	899.0	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°	40831.6	100.0
0°-180°	40831.6	100.0

Coefficient of Utilization



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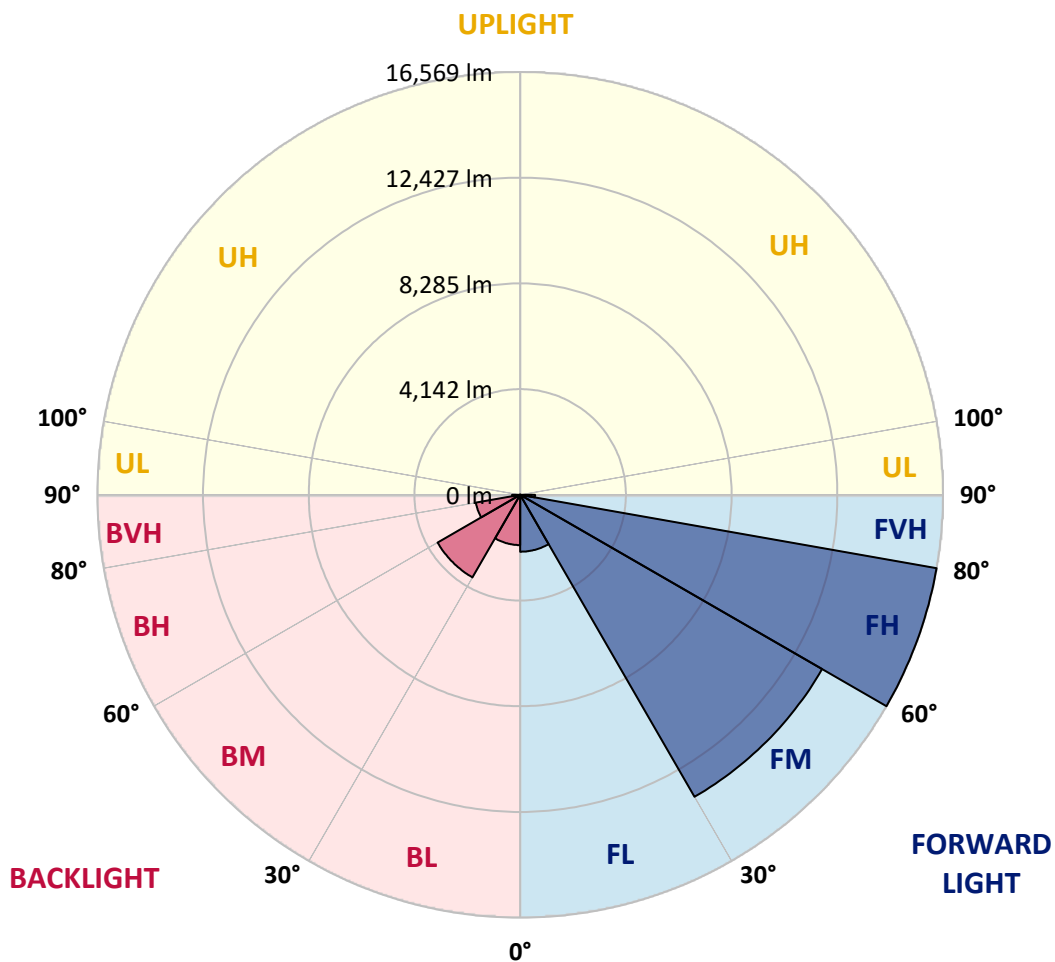
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2230.8	5.5			
FM	(30°-60°)	13662.5	33.5			
FH	(60°-80°)	16569.5	40.6			G5
FVH	(80°-90°)	581.1	1.4			G4/750
BL	(0°-30°)	1970.7	4.8	B3/2500		
BM	(30°-60°)	3737.2	9.2	B3/5000		
BH	(60°-80°)	1761.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	317.9	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°	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8
2.5°	5919.6	5931.4	5917.7	5935.3	5964.7	5996.1	6017.7	6049.0	6084.3	6133.4	6145.1
5°	5641.2	5658.8	5658.8	5690.2	5747.1	5798.1	5845.1	5896.1	5970.6	6054.9	6088.3
7.5°	5335.3	5345.1	5362.8	5409.8	5492.2	5564.7	5631.4	5713.7	5815.7	5927.5	5986.3
10°	4966.7	4980.4	5007.9	5074.5	5186.3	5286.3	5382.4	5496.1	5625.5	5764.7	5839.2
12.5°	4705.9	4702.0	4713.7	4762.8	4860.8	4982.4	5121.6	5266.7	5425.5	5588.3	5678.4
15°	4617.7	4596.1	4551.0	4539.2	4592.2	4713.7	4874.5	5053.0	5243.2	5439.2	5551.0
17.5°	4672.6	4635.3	4511.8	4421.6	4413.7	4505.9	4676.5	4876.5	5096.1	5335.3	5474.5
20°	5017.7	4929.4	4625.5	4415.7	4343.1	4388.2	4537.3	4749.0	5007.9	5325.5	5503.9
22.5°	5843.2	5713.7	5068.6	4678.4	4433.3	4378.4	4490.2	4715.7	5017.7	5447.1	5674.5
25°	7045.1	6860.8	5829.4	5333.3	4827.5	4535.3	4560.8	4792.2	5156.9	5729.4	6003.9
27.5°	7994.1	7874.5	6823.5	6256.9	5545.1	4958.8	4790.2	4984.3	5441.2	6192.2	6472.6
30°	8558.8	8486.3	7886.3	7303.9	6460.8	5633.3	5229.4	5345.1	5886.3	6833.4	7064.7
32.5°	9213.8	9170.6	8876.5	8341.2	7449.0	6519.6	5925.5	5884.3	6482.4	7603.9	7709.8
35°	9892.2	9878.5	9705.9	9321.6	8509.8	7688.3	6849.0	6570.6	7131.4	8403.9	8337.3
37.5°	10523.6	10500.0	10400.0	10176.5	9619.6	8943.2	7790.2	7274.5	7831.4	9168.7	8872.6
40°	11686.3	11502.0	11158.9	10990.2	10741.2	10000.0	8537.3	7931.4	8556.9	9898.1	9335.3
42.5°	13104.0	12804.0	12164.7	11933.4	11898.1	10833.4	9047.1	8568.7	9288.3	10621.6	9790.2
45°	14219.6	13937.3	13386.3	13094.2	13223.6	11588.3	9558.9	9249.0	10041.2	11380.4	10258.9
47.5°	15409.8	14966.7	14237.3	14325.5	14607.9	12302.0	10080.4	9980.4	10866.7	12229.4	10841.2
50°	15453.0	15113.8	14794.2	15321.6	15760.8	12958.9	10733.4	10747.1	11876.5	13298.1	11615.7
52.5°	14556.9	14484.4	14992.2	15821.6	16455.0	13478.5	11476.5	11539.2	13168.7	14525.5	12466.7
55°	14243.2	14160.8	14747.1	15647.1	16549.1	13907.9	12282.4	12396.1	14731.4	15819.7	13296.1
57.5°	15007.9	14825.5	14864.7	15564.8	16319.7	14378.5	13160.8	13390.2	16429.5	16951.0	13829.5
60°	17145.1	16755.0	16013.8	15996.1	16443.2	15084.4	14176.5	14456.9	18194.2	17492.2	13621.6
62.5°	20143.2	19753.0	18364.8	17460.8	17394.2	16249.1	15423.6	15498.1	19213.8	16758.9	12353.0
65°	23388.3	23039.3	21488.3	20211.8	19596.1	18178.5	16872.6	15962.8	18880.4	14741.2	10133.4
67.5°	27327.5	26953.0	25619.7	24441.2	23849.1	21292.2	17890.2	15517.7	16764.8	11419.6	7284.3
70°	30082.4	29700.1	29174.6	30129.5	31578.5	25784.4	18021.6	13707.9	12521.6	7590.2	4384.3
72.5°	26488.3	26309.9	27268.7	31290.3	37325.6	28509.9	16290.2	9980.4	7272.6	4029.4	2537.3
73°	24268.7	24229.5	25864.8	30476.6	37366.8	28090.3	15531.4	9276.5	6237.3	3564.7	2319.6
75°	10958.9	11274.5	14858.9	23278.5	32464.8	23147.1	10931.4	5321.6	3523.5	2462.8	1751.0
77.5°	2633.3	2743.1	4649.0	11054.9	20502.0	13794.2	4953.0	2631.4	2252.9	1739.2	1278.4
80°	1121.6	1158.8	1790.2	4084.3	9653.0	5554.9	2282.4	1762.8	1558.8	1213.7	896.1
82.5°	623.5	662.7	1015.7	1852.9	3896.1	1894.1	1392.2	1227.5	1025.5	731.4	582.4
85°	352.9	374.5	594.1	1035.3	1651.0	760.8	833.3	815.7	578.4	376.5	286.3
87.5°	166.7	180.4	286.3	480.4	647.1	298.0	423.5	466.7	362.7	229.4	149.0
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°	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8	6162.8
2.5°	6158.8	6194.1	6235.3	6256.9	6276.5	6300.0	6323.5	6323.5	6327.5	6329.4
5°	6115.7	6188.3	6253.0	6280.4	6286.3	6286.3	6280.4	6249.0	6221.6	6233.4
7.5°	6025.5	6131.4	6186.3	6176.5	6102.0	6015.7	5943.2	5854.9	5809.8	5802.0
10°	5896.1	6017.7	6027.5	5929.4	5745.1	5560.8	5407.9	5258.8	5188.3	5170.6
12.5°	5753.0	5864.7	5802.0	5600.0	5303.9	5035.3	4841.2	4690.2	4623.5	4605.9
15°	5637.3	5713.7	5554.9	5237.3	4864.7	4580.4	4419.6	4307.9	4260.8	4247.1
17.5°	5576.5	5592.2	5302.0	4872.6	4476.5	4239.2	4139.2	4086.3	4068.6	4058.8
20°	5605.9	5496.1	5060.8	4533.3	4158.8	3992.2	3968.6	3954.9	3951.0	3945.1
22.5°	5753.0	5466.7	4839.2	4211.8	3880.4	3807.9	3827.5	3825.5	3821.6	3817.7
25°	6015.7	5492.2	4623.5	3905.9	3647.1	3631.4	3666.7	3666.7	3651.0	3651.0
27.5°	6362.8	5545.1	4382.4	3615.7	3435.3	3437.3	3464.7	3456.9	3439.2	3427.5
30°	6786.3	5578.4	4100.0	3354.9	3237.3	3229.4	3237.3	3203.9	3151.0	3147.1
32.5°	7219.6	5537.3	3772.6	3123.5	3027.5	3009.8	3003.9	2956.9	2896.1	2878.4
35°	7611.8	5386.3	3439.2	2939.2	2827.5	2788.2	2815.7	2800.0	2745.1	2731.4
37.5°	7898.1	5105.9	3139.2	2776.5	2684.3	2674.5	2692.2	2698.0	2633.3	2619.6
40°	8090.2	4725.5	2882.4	2639.2	2656.9	2619.6	2560.8	2519.6	2500.0	2494.1
42.5°	8245.1	4329.4	2666.7	2574.5	2662.8	2554.9	2427.5	2360.8	2396.1	2411.8
45°	8423.6	3943.1	2486.3	2494.1	2633.3	2480.4	2335.3	2270.6	2284.3	2288.2
47.5°	8668.7	3472.6	2292.2	2364.7	2535.3	2429.4	2278.4	2186.3	2121.6	2092.2
50°	9007.9	2915.7	2090.2	2219.6	2439.2	2392.2	2190.2	2092.2	1972.6	1945.1
52.5°	9243.2	2396.1	1923.5	2098.0	2352.9	2317.7	2119.6	1992.2	1866.7	1843.1
55°	9115.7	1990.2	1778.4	1962.8	2239.2	2225.5	2060.8	1890.2	1792.2	1772.6
57.5°	8478.5	1733.3	1666.7	1835.3	2100.0	2147.1	1982.4	1803.9	1733.3	1719.6
60°	7262.8	1572.6	1596.1	1749.0	1986.3	2068.6	1903.9	1756.9	1709.8	1700.0
62.5°	5635.3	1464.7	1543.1	1686.3	1898.0	2013.7	1860.8	1751.0	1733.3	1721.6
65°	4037.3	1378.4	1486.3	1623.5	1817.7	1962.8	1845.1	1743.1	1747.1	1737.3
67.5°	2743.1	1302.0	1417.7	1552.9	1739.2	1917.7	1823.5	1715.7	1764.7	1752.9
70°	1919.6	1227.5	1337.3	1462.7	1641.2	1854.9	1784.3	1674.5	1670.6	1623.5
72.5°	1498.0	1129.4	1227.5	1337.3	1515.7	1766.7	1705.9	1582.4	1517.7	1468.6
73°	1429.4	1105.9	1200.0	1309.8	1488.2	1745.1	1684.3	1556.9	1484.3	1439.2
75°	1182.4	1003.9	1090.2	1188.2	1370.6	1643.1	1578.4	1441.2	1349.0	1321.6
77.5°	929.4	858.8	941.2	1029.4	1207.8	1494.1	1421.6	1290.2	1239.2	1215.7
80°	688.2	711.8	784.3	862.7	1047.1	1335.3	1270.6	1139.2	1366.7	1309.8
82.5°	484.3	539.2	605.9	676.5	878.4	1180.4	1102.0	966.7	1000.0	831.4
85°	286.3	352.9	415.7	476.5	633.3	978.4	909.8	770.6	631.4	602.0
87.5°	166.7	196.1	213.7	276.5	435.3	737.3	641.2	570.6	327.5	221.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)