

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: P300402

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300402
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-08-LED-E1-T4FT-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K 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: 38640.2 lumens
Efficiency: N/A
Efficacy: 115.7 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

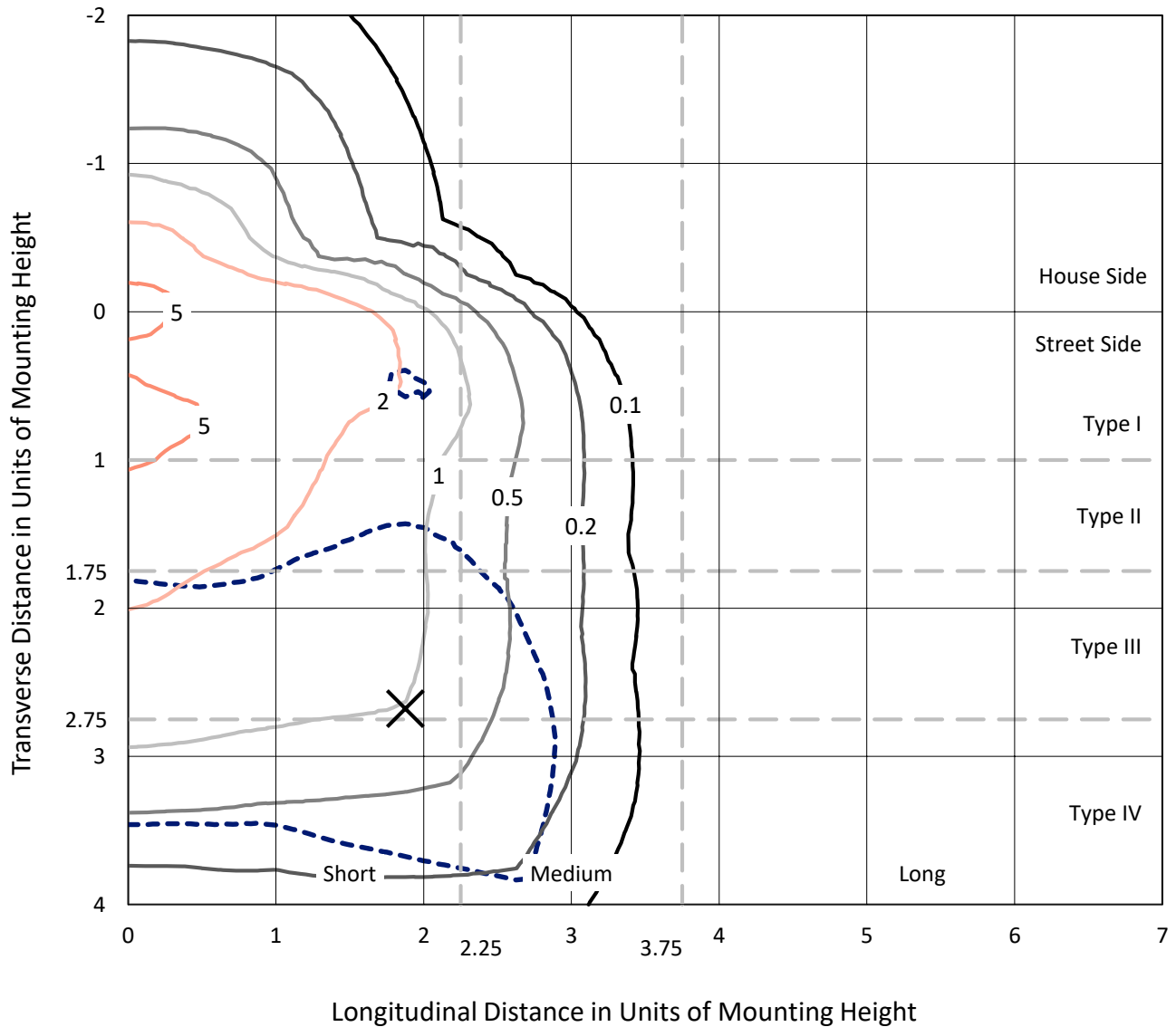


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Iso-Footcandle Lines of Horizontal Illumination

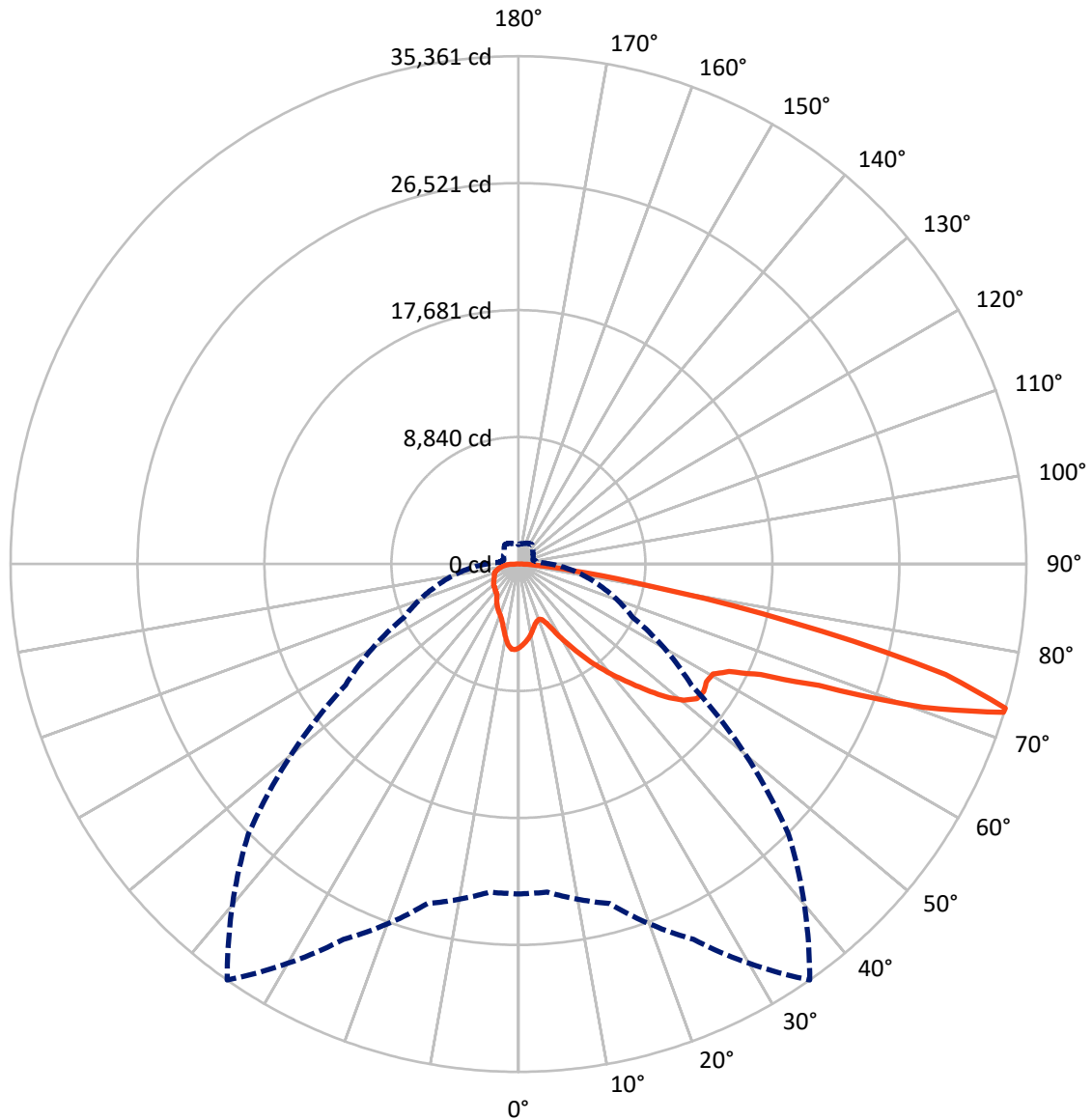
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	7369.8	0.0	7369.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	31270.4	0.0	31270.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	38640.2	0.0	38640.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.0	1.4
10°-20°	1317.7	3.4
20°-30°	2130.3	5.5
30°-40°	3572.2	9.2
40°-50°	5506.4	14.3
50°-60°	7387.4	19.1
60°-70°	9841.5	25.5
70°-80°	7506.1	19.4
80°-90°	850.8	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°	38640.2	100.0
0°-180°	38640.2	100.0

Coefficient of Utilization



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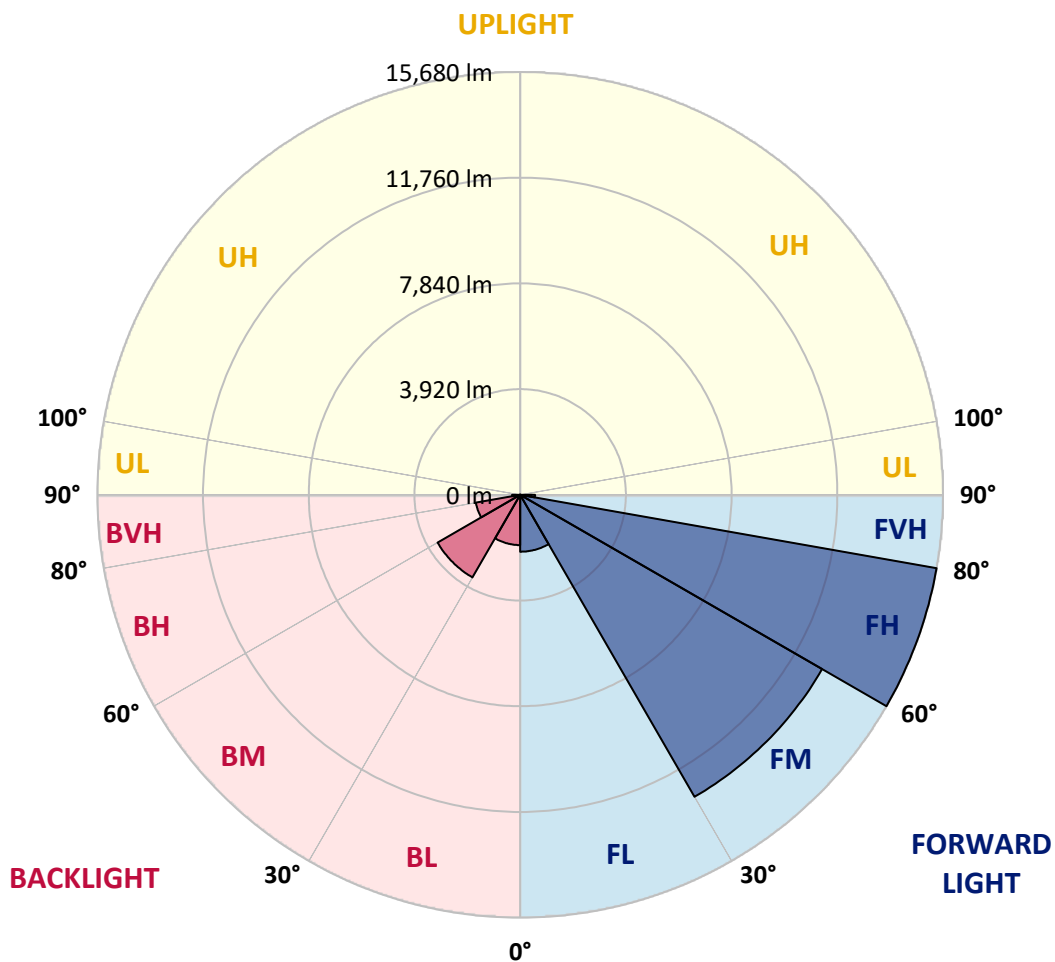
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.1	5.5			
FM	(30°-60°)	12929.3	33.5			
FH	(60°-80°)	15680.2	40.6			G5
FVH	(80°-90°)	549.9	1.4			G4/750
BL	(0°-30°)	1864.9	4.8	B3/2500		
BM	(30°-60°)	3536.7	9.2	B3/5000		
BH	(60°-80°)	1667.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	300.8	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°	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0
2.5°	5601.9	5613.1	5600.1	5616.8	5644.6	5674.3	5694.7	5724.4	5757.8	5804.2	5815.3
5°	5338.4	5355.1	5355.1	5384.8	5438.6	5486.9	5531.4	5579.7	5650.2	5730.0	5761.5
7.5°	5049.0	5058.2	5074.9	5119.5	5197.4	5266.1	5329.2	5407.1	5503.6	5609.3	5665.0
10°	4700.1	4713.1	4739.1	4802.2	4907.9	5002.6	5093.5	5201.1	5323.6	5455.3	5525.8
12.5°	4453.3	4449.6	4460.8	4507.1	4599.9	4715.0	4846.7	4984.0	5134.3	5288.3	5373.7
15°	4369.8	4349.4	4306.7	4295.6	4345.7	4460.8	4612.9	4781.8	4961.8	5147.3	5253.1
17.5°	4421.8	4386.5	4269.6	4184.3	4176.9	4264.1	4425.5	4614.8	4822.6	5049.0	5180.7
20°	4748.4	4664.9	4377.3	4178.7	4110.1	4152.7	4293.8	4494.2	4739.1	5039.7	5208.5
22.5°	5529.6	5407.1	4796.6	4427.4	4195.4	4143.5	4249.2	4462.6	4748.4	5154.7	5370.0
25°	6667.0	6492.6	5516.6	5047.1	4568.4	4291.9	4316.0	4535.0	4880.1	5421.9	5681.7
27.5°	7565.1	7451.9	6457.3	5921.1	5247.5	4692.7	4533.1	4716.8	5149.2	5859.8	6125.2
30°	8099.5	8030.8	7463.0	6911.9	6114.0	5331.0	4948.8	5058.2	5570.4	6466.6	6685.6
32.5°	8719.2	8678.4	8400.1	7893.5	7049.2	6169.7	5607.5	5568.5	6134.5	7195.8	7296.0
35°	9361.3	9348.3	9185.0	8821.3	8053.1	7275.6	6481.4	6218.0	6748.6	7952.9	7889.8
37.5°	9958.8	9936.5	9841.9	9630.3	9103.3	8463.2	7372.1	6884.1	7411.1	8676.6	8396.4
40°	11059.1	10884.7	10560.0	10400.4	10164.7	9463.3	8079.1	7505.7	8097.6	9366.8	8834.3
42.5°	12400.7	12116.8	11511.9	11292.9	11259.5	10251.9	8561.5	8108.8	8789.8	10051.5	9264.8
45°	13456.5	13189.3	12667.9	12391.4	12513.9	10966.3	9045.8	8752.6	9502.3	10769.6	9708.3
47.5°	14582.8	14163.4	13473.2	13556.7	13823.9	11641.7	9539.4	9444.8	10283.5	11573.1	10259.4
50°	14623.6	14302.6	14000.2	14499.3	14914.9	12263.4	10157.3	10170.3	11239.1	12584.4	10992.3
52.5°	13775.6	13707.0	14187.6	14972.5	15571.8	12755.1	10860.6	10919.9	12461.9	13745.9	11797.6
55°	13478.7	13400.8	13955.6	14807.3	15660.9	13161.4	11623.2	11730.8	13940.8	14970.6	12582.5
57.5°	14202.4	14029.8	14067.0	14729.4	15443.8	13606.8	12454.5	12671.6	15547.7	16041.3	13087.2
60°	16225.0	15855.7	15154.3	15137.6	15560.7	14274.8	13415.7	13681.0	17217.7	16553.4	12890.5
62.5°	19062.1	18692.8	17379.1	16523.7	16460.6	15377.0	14595.8	14666.3	18182.6	15859.4	11690.0
65°	22133.0	21802.8	20335.0	19127.0	18544.4	17202.8	15967.0	15106.1	17867.1	13950.1	9589.5
67.5°	25860.9	25506.4	24244.7	23129.5	22569.1	20149.5	16930.1	14684.9	15865.0	10806.7	6893.4
70°	28467.9	28106.1	27608.8	28512.4	29883.7	24400.5	17054.4	12972.2	11849.6	7182.8	4149.0
72.5°	25066.7	24897.8	25805.2	29610.9	35322.3	26979.8	15415.9	9444.8	6882.2	3813.2	2401.1
73°	22966.2	22929.1	24476.6	28840.9	35361.3	26582.7	14697.8	8778.6	5902.5	3373.4	2195.1
75°	10370.7	10669.4	14061.4	22029.1	30722.4	21904.8	10344.7	5036.0	3334.4	2330.6	1657.0
77.5°	2492.0	2595.9	4399.5	10461.6	19401.7	13053.8	4687.1	2490.2	2132.0	1645.9	1209.8
80°	1061.4	1096.6	1694.1	3865.1	9134.9	5256.8	2159.9	1668.1	1475.2	1148.6	848.0
82.5°	590.1	627.2	961.2	1753.5	3687.0	1792.5	1317.4	1161.6	970.5	692.1	551.1
85°	334.0	354.4	562.2	979.7	1562.4	720.0	788.6	771.9	547.4	356.3	270.9
87.5°	157.7	170.7	270.9	454.6	612.3	282.0	400.8	441.6	343.3	217.1	141.0
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°	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0	5832.0
2.5°	5828.3	5861.7	5900.7	5921.1	5939.6	5961.9	5984.2	5984.2	5987.9	5989.7
5°	5787.5	5856.1	5917.4	5943.3	5948.9	5948.9	5943.3	5913.6	5887.7	5898.8
7.5°	5702.1	5802.3	5854.3	5845.0	5774.5	5692.8	5624.2	5540.7	5498.0	5490.6
10°	5579.7	5694.7	5704.0	5611.2	5436.8	5262.4	5117.6	4976.6	4909.8	4893.1
12.5°	5444.2	5550.0	5490.6	5299.5	5019.3	4765.1	4581.4	4438.5	4375.4	4358.7
15°	5334.7	5407.1	5256.8	4956.2	4603.6	4334.6	4182.4	4076.7	4032.1	4019.1
17.5°	5277.2	5292.0	5017.4	4611.1	4236.2	4011.7	3917.1	3867.0	3850.3	3841.0
20°	5305.0	5201.1	4789.2	4290.0	3935.6	3777.9	3755.6	3742.7	3738.9	3733.4
22.5°	5444.2	5173.3	4579.5	3985.7	3672.1	3603.5	3622.0	3620.2	3616.5	3612.8
25°	5692.8	5197.4	4375.4	3696.3	3451.3	3436.5	3469.9	3469.9	3455.0	3455.0
27.5°	6021.3	5247.5	4147.2	3421.6	3250.9	3252.8	3278.8	3271.3	3254.6	3243.5
30°	6422.1	5279.1	3880.0	3174.9	3063.5	3056.1	3063.5	3032.0	2981.9	2978.2
32.5°	6832.1	5240.1	3570.1	2955.9	2865.0	2848.3	2842.7	2798.2	2740.7	2724.0
35°	7203.3	5097.2	3254.6	2781.5	2675.7	2638.6	2664.6	2649.7	2597.8	2584.8
37.5°	7474.2	4831.9	2970.7	2627.5	2540.3	2531.0	2547.7	2553.2	2492.0	2479.0
40°	7656.0	4471.9	2727.7	2497.6	2514.3	2479.0	2423.4	2384.4	2365.8	2360.3
42.5°	7802.6	4097.1	2523.6	2436.3	2519.8	2417.8	2297.2	2234.1	2267.5	2282.3
45°	7971.5	3731.5	2352.8	2360.3	2492.0	2347.3	2210.0	2148.7	2161.7	2165.4
47.5°	8203.4	3286.2	2169.1	2237.8	2399.2	2299.0	2156.2	2068.9	2007.7	1979.9
50°	8524.4	2759.2	1978.0	2100.5	2308.3	2263.8	2072.7	1979.9	1866.7	1840.7
52.5°	8747.1	2267.5	1820.3	1985.4	2226.7	2193.3	2005.9	1885.2	1766.5	1744.2
55°	8626.5	1883.4	1683.0	1857.4	2119.0	2106.1	1950.2	1788.8	1696.0	1677.4
57.5°	8023.4	1640.3	1577.2	1736.8	1987.3	2031.8	1876.0	1707.1	1640.3	1627.3
60°	6873.0	1488.2	1510.4	1655.2	1879.7	1957.6	1801.7	1662.6	1618.0	1608.8
62.5°	5332.9	1386.1	1460.3	1595.8	1796.2	1905.7	1760.9	1657.0	1640.3	1629.2
65°	3820.6	1304.5	1406.5	1536.4	1720.1	1857.4	1746.1	1649.6	1653.3	1644.0
67.5°	2595.9	1232.1	1341.6	1469.6	1645.9	1814.7	1725.7	1623.6	1670.0	1658.9
70°	1816.6	1161.6	1265.5	1384.2	1553.1	1755.4	1688.6	1584.6	1580.9	1536.4
72.5°	1417.6	1068.8	1161.6	1265.5	1434.3	1671.9	1614.3	1497.4	1436.2	1389.8
73°	1352.7	1046.5	1135.6	1239.5	1408.4	1651.4	1593.9	1473.3	1404.7	1362.0
75°	1118.9	950.0	1031.7	1124.5	1297.0	1555.0	1493.7	1363.8	1276.6	1250.6
77.5°	879.5	812.7	890.7	974.2	1143.0	1413.9	1345.3	1221.0	1172.7	1150.4
80°	651.3	673.6	742.2	816.4	990.9	1263.6	1202.4	1078.1	1293.3	1239.5
82.5°	458.3	510.3	573.4	640.2	831.3	1117.0	1042.8	914.8	946.3	786.8
85°	270.9	334.0	393.4	450.9	599.3	925.9	861.0	729.2	597.5	569.7
87.5°	157.7	185.6	202.3	261.6	411.9	697.7	606.8	540.0	309.9	209.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)