

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: P192318

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192318
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-10-LED-E1-T4FT-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA 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: 39052 lumens
Efficiency: N/A
Efficacy: 120.9 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 (A_{in}): 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

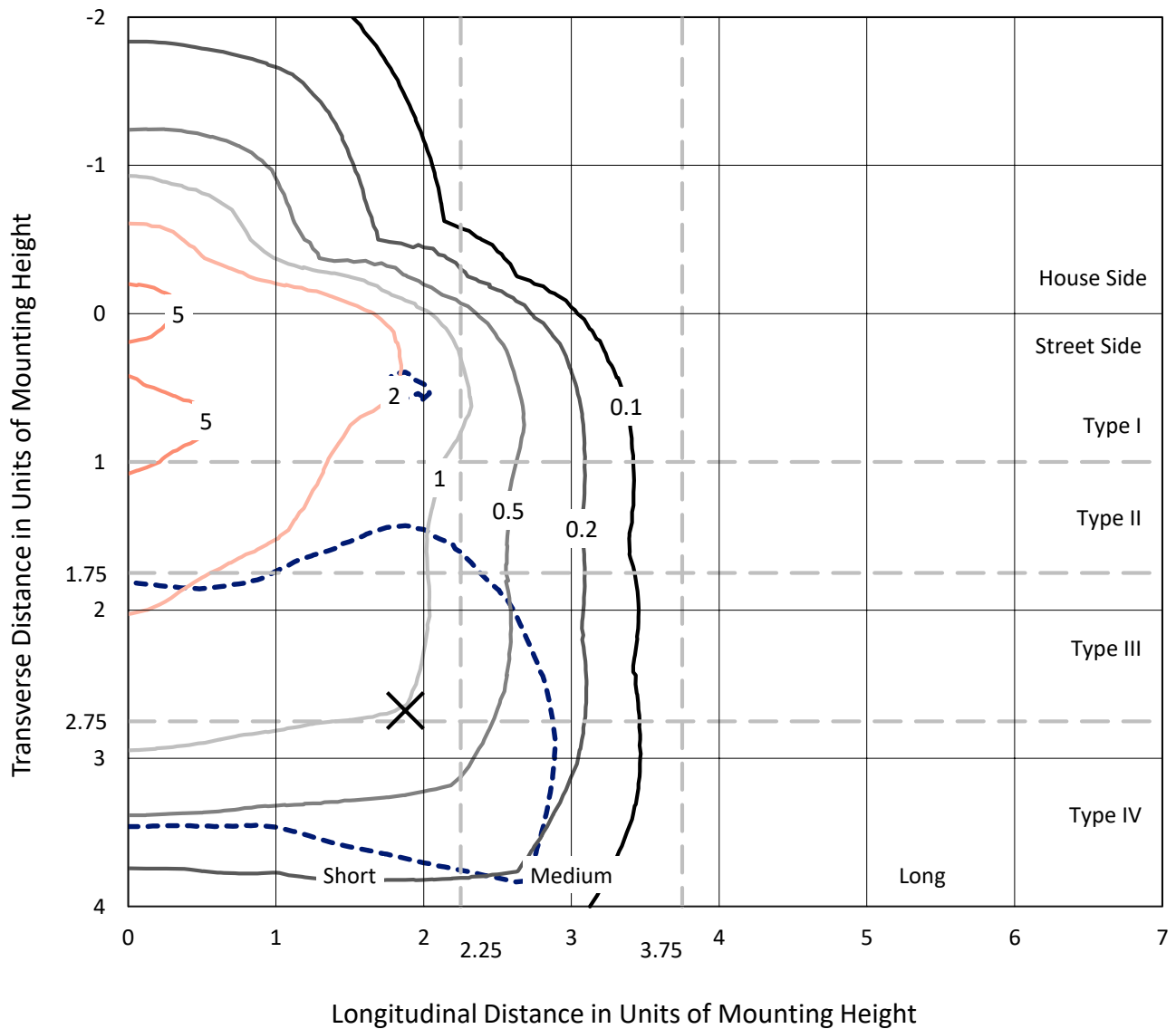


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

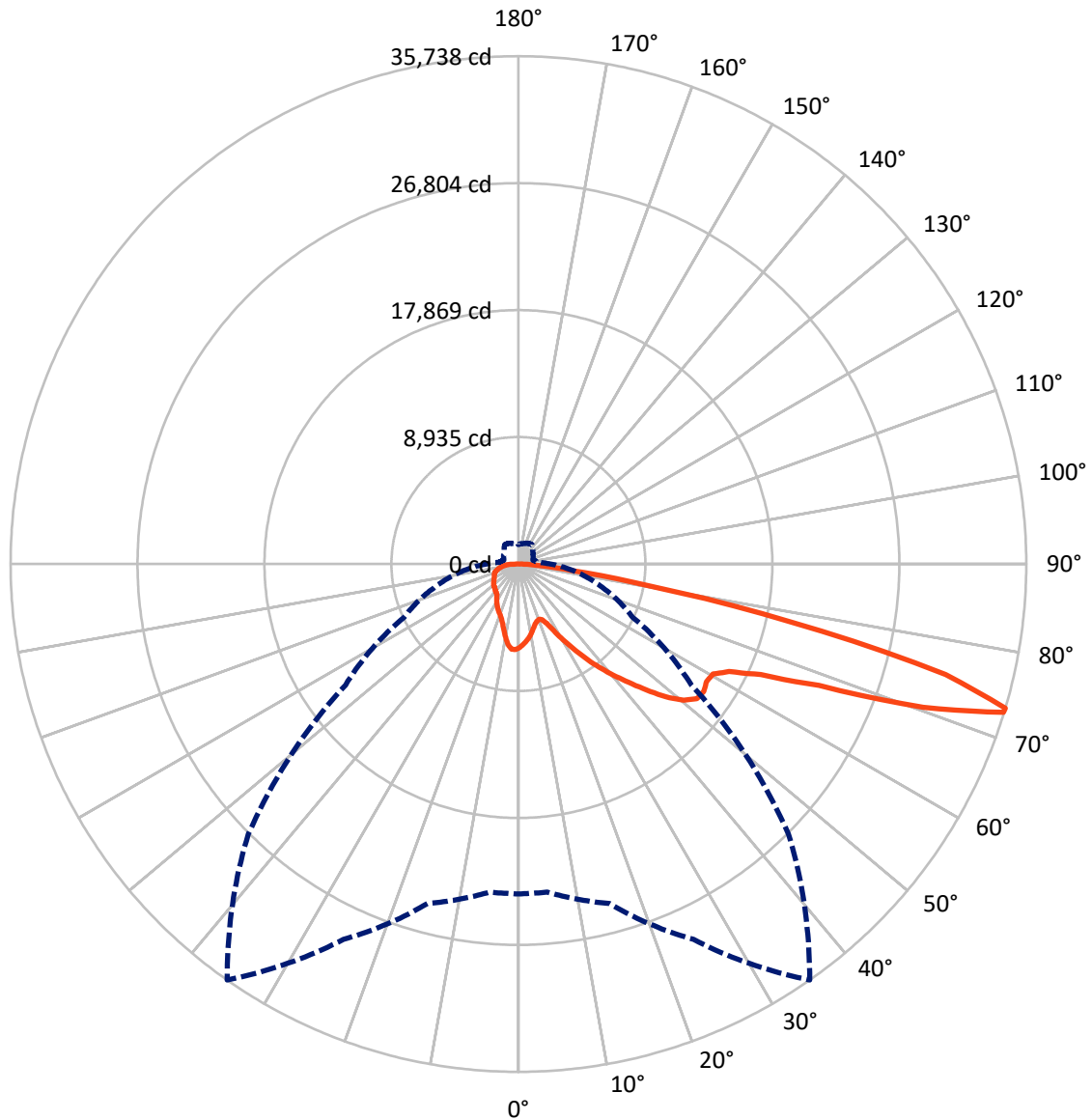


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Non-Cutoff

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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	7448.3	0.0	7448.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	31603.7	0.0	31603.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	39052.0	0.0	39052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.6	1.4
10°-20°	1331.8	3.4
20°-30°	2153.0	5.5
30°-40°	3610.3	9.2
40°-50°	5565.0	14.3
50°-60°	7466.1	19.1
60°-70°	9946.4	25.5
70°-80°	7586.1	19.4
80°-90°	859.8	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°	39052.0	100.0
0°-180°	39052.0	100.0



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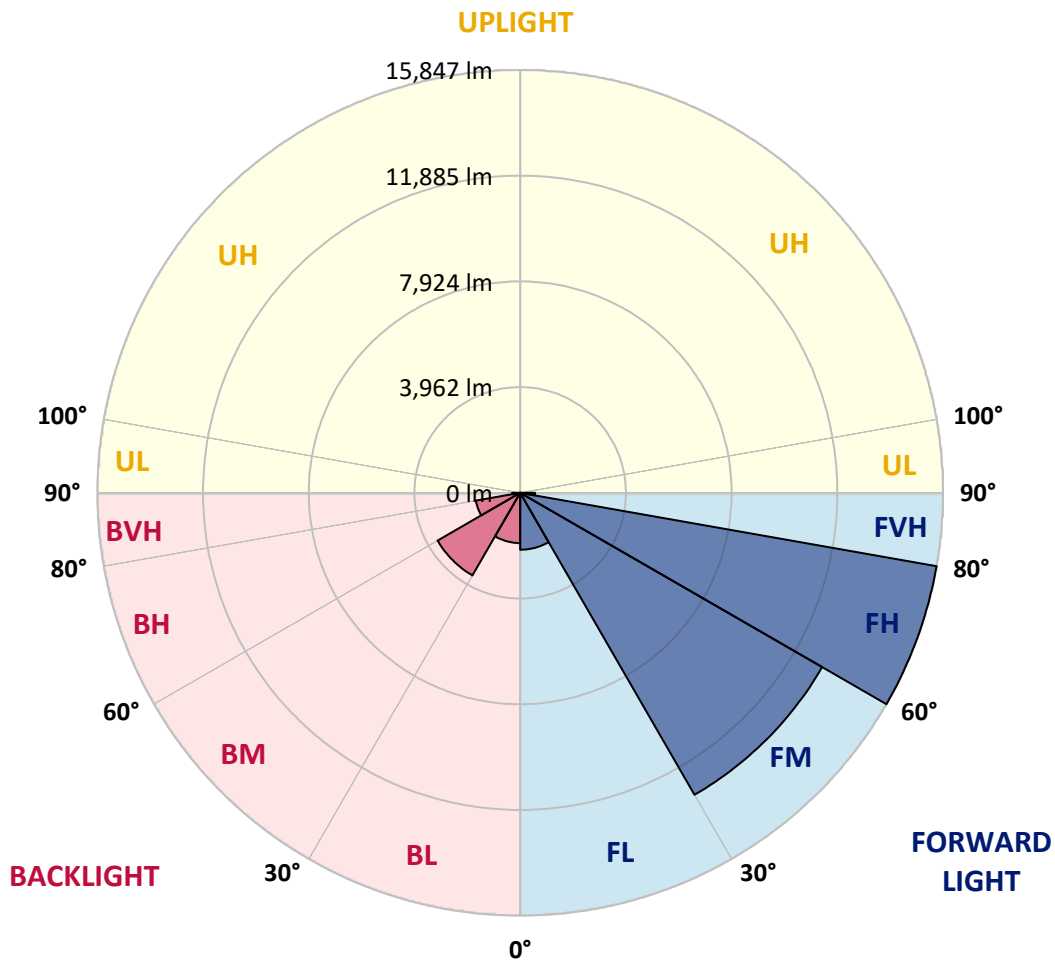
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2133.6	5.5			
FM	(30°-60°)	13067.1	33.5			
FH	(60°-80°)	15847.3	40.6			G5
FVH	(80°-90°)	555.8	1.4			G4/750
BL	(0°-30°)	1884.8	4.8	B3/2500		
BM	(30°-60°)	3574.3	9.2	B3/5000		
BH	(60°-80°)	1685.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	304.0	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°	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2
2.5°	5661.6	5672.9	5659.7	5676.6	5704.8	5734.8	5755.4	5785.4	5819.1	5866.0	5877.3
5°	5395.3	5412.2	5412.2	5442.2	5496.6	5545.3	5590.4	5639.1	5710.4	5791.0	5822.9
7.5°	5102.8	5112.1	5129.0	5174.0	5252.8	5322.2	5385.9	5464.7	5562.2	5669.1	5725.4
10°	4750.2	4763.3	4789.6	4853.4	4960.2	5055.9	5147.8	5256.5	5380.3	5513.5	5584.7
12.5°	4500.8	4497.0	4508.3	4555.2	4648.9	4765.2	4898.4	5037.1	5189.0	5344.7	5431.0
15°	4416.4	4395.8	4352.6	4341.4	4392.0	4508.3	4662.1	4832.7	5014.6	5202.2	5309.1
17.5°	4468.9	4433.3	4315.1	4228.9	4221.4	4309.5	4472.7	4663.9	4874.0	5102.8	5235.9
20°	4799.0	4714.6	4423.9	4223.2	4153.9	4197.0	4339.5	4542.0	4789.6	5093.4	5264.0
22.5°	5588.5	5464.7	4847.7	4474.5	4240.1	4187.6	4294.5	4510.2	4799.0	5209.7	5427.2
25°	6738.1	6561.8	5575.4	5100.9	4617.1	4337.6	4362.0	4583.3	4932.1	5479.7	5742.3
27.5°	7645.7	7531.3	6526.1	5984.2	5303.4	4742.7	4581.4	4767.1	5204.0	5922.3	6190.5
30°	8185.8	8116.4	7542.6	6985.6	6179.2	5387.8	5001.5	5112.1	5629.7	6535.5	6756.8
32.5°	8812.2	8770.9	8489.6	7977.7	7124.4	6235.5	5667.2	5627.9	6199.8	7272.5	7373.8
35°	9461.0	9447.9	9282.9	8915.3	8138.9	7353.2	6550.5	6284.2	6820.6	8037.7	7973.9
37.5°	10064.9	10042.4	9946.7	9733.0	9200.4	8553.4	7450.7	6957.5	7490.1	8769.0	8485.9
40°	11177.0	11000.7	10672.5	10511.2	10273.1	9564.2	8165.2	7585.7	8183.9	9466.7	8928.4
42.5°	12532.8	12245.9	11634.5	11413.3	11379.5	10361.2	8652.8	8195.2	8883.4	10158.7	9363.5
45°	13599.9	13329.8	12802.9	12523.4	12647.2	11083.2	9142.2	8845.9	9603.6	10884.4	9811.7
47.5°	14738.2	14314.4	13616.8	13701.2	13971.2	11765.8	9641.1	9545.4	10393.1	11696.4	10368.7
50°	14779.5	14455.0	14149.4	14653.8	15073.9	12394.1	10265.6	10278.7	11358.9	12718.5	11109.5
52.5°	13922.4	13853.1	14338.8	15132.0	15737.8	12891.0	10976.3	11036.3	12594.7	13892.4	11923.3
55°	13622.4	13543.6	14104.4	14965.1	15827.8	13301.7	11747.1	11855.8	14089.3	15130.2	12716.6
57.5°	14353.8	14179.4	14216.9	14886.4	15608.4	13751.8	12587.2	12806.6	15713.4	16212.2	13226.7
60°	16397.9	16024.7	15315.8	15298.9	15726.5	14426.9	13558.6	13826.8	17401.2	16729.8	13027.9
62.5°	19265.3	18892.1	17564.3	16699.8	16636.0	15540.9	14751.3	14822.6	18376.4	16028.4	11814.6
65°	22368.9	22035.1	20551.7	19330.9	18742.0	17386.2	16137.2	15267.1	18057.5	14098.7	9691.7
67.5°	26136.5	25778.3	24503.1	23376.0	22809.6	20364.2	17110.5	14841.4	16034.1	10921.9	6966.8
70°	28771.3	28405.6	27903.0	28816.3	30202.2	24660.6	17236.2	13110.4	11975.9	7259.4	4193.2
72.5°	25333.8	25163.2	26080.2	29926.5	35698.8	27267.3	15580.2	9545.4	6955.6	3853.8	2426.7
73°	23211.0	23173.4	24737.5	29148.2	35738.2	26866.0	14854.5	8872.2	5965.4	3409.3	2218.5
75°	10481.2	10783.1	14211.2	22263.9	31049.8	22138.3	10455.0	5089.6	3370.0	2355.4	1674.7
77.5°	2518.6	2623.6	4446.4	10573.1	19608.4	13192.9	4737.1	2516.7	2154.8	1663.4	1222.7
80°	1072.7	1108.3	1712.2	3906.3	9232.2	5312.8	2182.9	1685.9	1490.9	1160.8	857.0
82.5°	596.4	633.9	971.4	1772.2	3726.3	1811.6	1331.5	1174.0	980.8	699.5	557.0
85°	337.6	358.2	568.2	990.2	1579.0	727.6	797.0	780.1	553.2	360.1	273.8
87.5°	159.4	172.5	273.8	459.5	618.9	285.1	405.1	446.3	346.9	219.4	142.5
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°	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2	5894.2
2.5°	5890.4	5924.2	5963.5	5984.2	6002.9	6025.4	6047.9	6047.9	6051.7	6053.6
5°	5849.2	5918.5	5980.4	6006.7	6012.3	6012.3	6006.7	5976.7	5950.4	5961.7
7.5°	5762.9	5864.2	5916.7	5907.3	5836.0	5753.5	5684.1	5599.7	5556.6	5549.1
10°	5639.1	5755.4	5764.8	5671.0	5494.7	5318.4	5172.2	5029.6	4962.1	4945.2
12.5°	5502.2	5609.1	5549.1	5355.9	5072.8	4815.8	4630.2	4485.8	4422.0	4405.1
15°	5391.6	5464.7	5312.8	5009.0	4652.7	4380.8	4227.0	4120.1	4075.1	4062.0
17.5°	5333.4	5348.4	5070.9	4660.2	4281.4	4054.5	3958.8	3908.2	3891.3	3881.9
20°	5361.6	5256.5	4840.2	4335.8	3977.6	3818.2	3795.7	3782.5	3778.8	3773.2
22.5°	5502.2	5228.4	4628.3	4028.2	3711.3	3641.9	3660.6	3658.8	3655.0	3651.3
25°	5753.5	5252.8	4422.0	3735.7	3488.1	3473.1	3506.9	3506.9	3491.9	3491.9
27.5°	6085.4	5303.4	4191.4	3458.1	3285.6	3287.5	3313.7	3306.2	3289.3	3278.1
30°	6490.5	5335.3	3921.3	3208.7	3096.2	3088.7	3096.2	3064.3	3013.7	3009.9
32.5°	6905.0	5295.9	3608.1	2987.4	2895.5	2878.6	2873.0	2828.0	2769.9	2753.0
35°	7280.0	5151.5	3289.3	2811.1	2704.2	2666.7	2693.0	2678.0	2625.5	2612.3
37.5°	7553.8	4883.4	3002.4	2655.5	2567.3	2557.9	2574.8	2580.5	2518.6	2505.4
40°	7737.6	4519.5	2756.7	2524.2	2541.1	2505.4	2449.2	2409.8	2391.0	2385.4
42.5°	7885.8	4140.7	2550.4	2462.3	2546.7	2443.6	2321.7	2257.9	2291.7	2306.7
45°	8056.4	3771.3	2377.9	2385.4	2518.6	2372.3	2233.5	2171.6	2184.8	2188.5
47.5°	8290.8	3321.2	2192.3	2261.6	2424.8	2323.5	2179.1	2091.0	2029.1	2001.0
50°	8615.3	2788.6	1999.1	2122.9	2332.9	2287.9	2094.7	2001.0	1886.6	1860.3
52.5°	8840.3	2291.7	1839.7	2006.6	2250.4	2216.6	2027.2	1905.3	1785.3	1762.8
55°	8718.4	1903.5	1700.9	1877.2	2141.6	2128.5	1971.0	1807.8	1714.1	1695.3
57.5°	8108.9	1657.8	1594.0	1755.3	2008.5	2053.5	1896.0	1725.3	1657.8	1644.7
60°	6946.2	1504.0	1526.5	1672.8	1899.7	1978.5	1820.9	1680.3	1635.3	1625.9
62.5°	5389.7	1400.9	1475.9	1612.8	1815.3	1926.0	1779.7	1674.7	1657.8	1646.5
65°	3861.3	1318.4	1421.5	1552.8	1738.4	1877.2	1764.7	1667.2	1670.9	1661.5
67.5°	2623.6	1245.2	1355.9	1485.3	1663.4	1834.1	1744.1	1640.9	1687.8	1676.5
70°	1835.9	1174.0	1279.0	1399.0	1569.7	1774.1	1706.5	1601.5	1597.8	1552.8
72.5°	1432.8	1080.2	1174.0	1279.0	1449.6	1689.7	1631.5	1513.4	1451.5	1404.6
73°	1367.1	1057.7	1147.7	1252.7	1423.4	1669.0	1610.9	1489.0	1419.6	1376.5
75°	1130.8	960.2	1042.7	1136.4	1310.9	1571.5	1509.6	1378.4	1290.2	1264.0
77.5°	888.9	821.4	900.2	984.5	1155.2	1429.0	1359.6	1234.0	1185.2	1162.7
80°	658.2	680.7	750.1	825.1	1001.4	1277.1	1215.2	1089.6	1307.1	1252.7
82.5°	463.2	515.7	579.5	647.0	840.1	1128.9	1053.9	924.5	956.4	795.1
85°	273.8	337.6	397.6	455.7	605.7	935.8	870.2	737.0	603.9	575.7
87.5°	159.4	187.5	204.4	264.4	416.3	705.1	613.2	545.7	313.2	211.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)