

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: P192345

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192345
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-07-LED-E1-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA 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: 46464 lumens
Efficiency: N/A
Efficacy: 103.7 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): 448
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

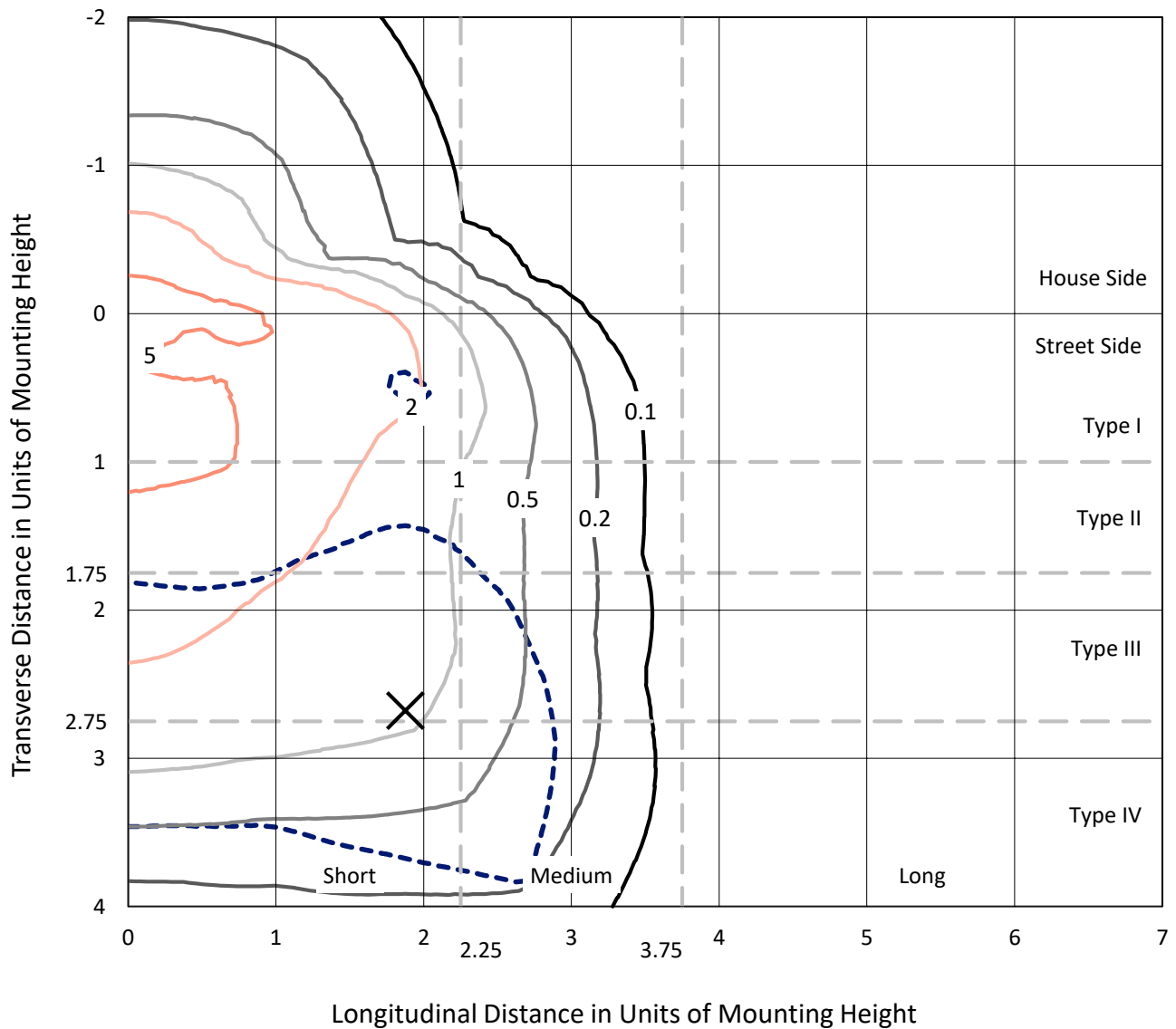


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

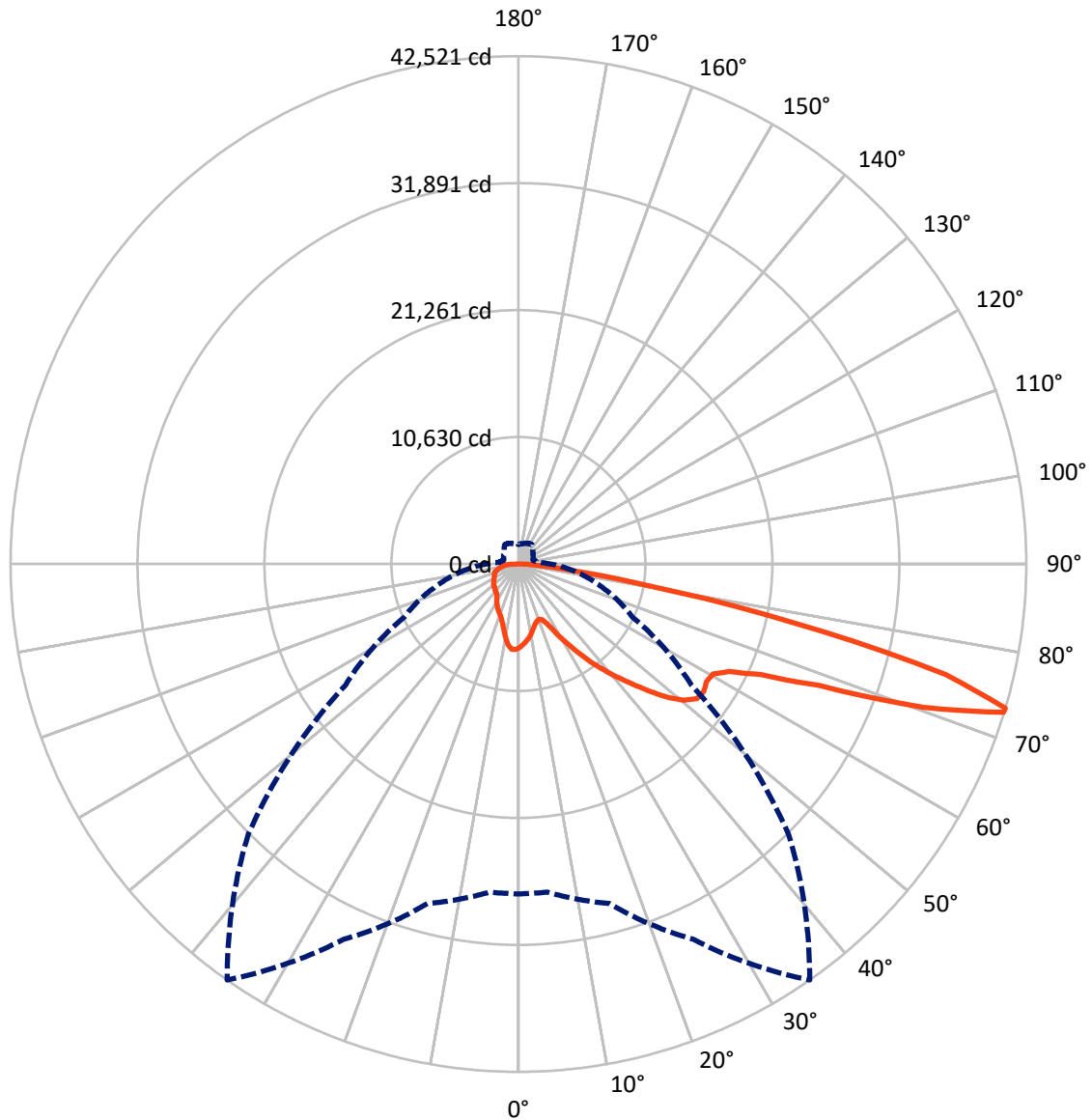


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Non-Cutoff

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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	8862.0	0.0	8862.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	37602.0	0.0	37602.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	46464.0	0.0	46464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.9	1.4
10°-20°	1584.5	3.4
20°-30°	2561.6	5.5
30°-40°	4295.5	9.2
40°-50°	6621.3	14.3
50°-60°	8883.2	19.1
60°-70°	11834.2	25.5
70°-80°	9025.9	19.4
80°-90°	1023.1	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°	46464.0	100.0
0°-180°	46464.0	100.0



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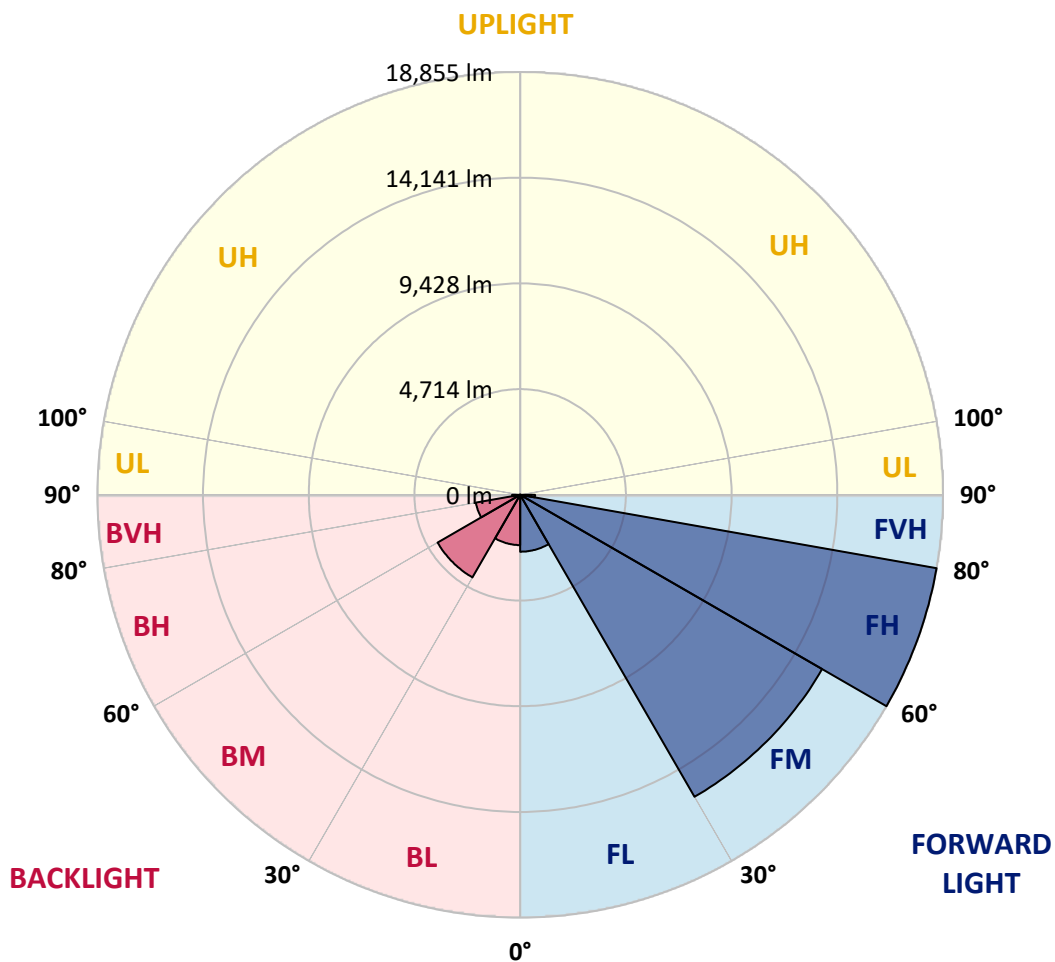
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2538.5	5.5			
FM	(30°-60°)	15547.2	33.5			
FH	(60°-80°)	18855.1	40.6			G5
FVH	(80°-90°)	661.3	1.4			G4/750
BL	(0°-30°)	2242.5	4.8	B3/2500		
BM	(30°-60°)	4252.8	9.2	B3/5000		
BH	(60°-80°)	2005.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	361.8	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°	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9
2.5°	6736.2	6749.6	6734.0	6754.0	6787.5	6823.2	6847.7	6883.4	6923.6	6979.4	6992.8
5°	6419.3	6439.4	6439.4	6475.1	6539.8	6597.8	6651.4	6709.4	6794.2	6890.1	6928.1
7.5°	6071.3	6082.4	6102.5	6156.1	6249.8	6332.3	6408.2	6501.9	6617.9	6745.1	6812.0
10°	5651.8	5667.4	5698.6	5774.5	5901.7	6015.5	6124.8	6254.2	6401.5	6559.9	6644.7
12.5°	5355.0	5350.6	5364.0	5419.7	5531.3	5669.6	5828.1	5993.2	6173.9	6359.1	6461.7
15°	5254.6	5230.1	5178.8	5165.4	5225.6	5364.0	5546.9	5750.0	5966.4	6189.5	6316.7
17.5°	5317.1	5274.7	5134.1	5031.5	5022.6	5127.4	5321.6	5549.2	5799.1	6071.3	6229.7
20°	5709.8	5609.4	5263.6	5024.8	4942.2	4993.6	5163.1	5404.1	5698.6	6060.1	6263.2
22.5°	6649.2	6501.9	5767.8	5323.8	5044.9	4982.4	5109.6	5366.2	5709.8	6198.4	6457.3
25°	8016.9	7807.2	6633.5	6069.0	5493.4	5160.9	5189.9	5453.2	5868.2	6519.8	6832.1
27.5°	9096.9	8960.8	7764.8	7120.0	6310.0	5642.9	5451.0	5671.9	6191.8	7046.3	7365.4
30°	9739.5	9656.9	8974.1	8311.5	7352.0	6410.4	5950.8	6082.4	6698.3	7776.0	8039.2
32.5°	10484.7	10435.6	10100.9	9491.8	8476.6	7419.0	6742.9	6696.0	7376.6	8652.8	8773.3
35°	11256.7	11241.1	11044.8	10607.4	9683.7	8748.8	7793.8	7477.0	8115.1	9563.2	9487.3
37.5°	11975.2	11948.4	11834.6	11580.3	10946.6	10176.8	8864.8	8278.0	8911.7	10433.4	10096.5
40°	13298.3	13088.6	12698.1	12506.2	12222.9	11379.4	9714.9	9025.5	9737.2	11263.4	10623.0
42.5°	14911.5	14570.2	13842.8	13579.5	13539.3	12327.7	10295.0	9750.6	10569.5	12086.8	11140.7
45°	16181.1	15859.8	15232.8	14900.4	15047.6	13186.8	10877.4	10524.9	11426.3	12950.3	11674.0
47.5°	17535.5	17031.2	16201.2	16301.6	16622.9	13998.9	11470.9	11357.1	12365.7	13916.4	12336.7
50°	17584.6	17198.6	16834.9	17435.1	17934.9	14746.4	12213.9	12229.6	13514.8	15132.4	13218.0
52.5°	16564.9	16482.3	17060.2	18004.1	18724.8	15337.7	13059.6	13131.0	14985.2	16529.2	14186.4
55°	16207.9	16114.2	16781.3	17805.5	18831.9	15826.4	13976.6	14106.0	16763.5	18001.8	15130.2
57.5°	17078.1	16870.6	16915.2	17711.8	18570.8	16361.9	14976.2	15237.3	18695.8	19289.3	15737.1
60°	19510.2	19066.1	18222.7	18202.6	18711.4	17165.1	16132.0	16451.1	20703.9	19905.1	15500.6
62.5°	22921.8	22477.7	20898.0	19869.4	19793.5	18490.5	17551.1	17635.9	21864.2	19070.6	14057.0
65°	26614.5	26217.3	24452.4	22999.9	22299.2	20686.0	19200.0	18164.7	21484.8	16774.6	11531.2
67.5°	31097.1	30670.9	29153.7	27812.7	27138.9	24229.3	20358.0	17658.2	19077.3	12994.9	8289.1
70°	34232.0	33796.9	33199.0	34285.6	35934.5	29341.1	20507.5	15598.8	14248.8	8637.2	4989.1
72.5°	30142.1	29939.1	31030.2	35606.5	42474.3	32442.6	18537.3	11357.1	8275.8	4585.2	2887.3
73°	27616.3	27571.7	29432.6	34680.5	42521.2	31965.1	17673.8	10556.1	7097.6	4056.4	2639.6
75°	12470.5	12829.8	16908.5	26489.6	36943.0	26340.1	12439.3	6055.6	4009.6	2802.5	1992.5
77.5°	2996.6	3121.5	5290.3	12579.9	23330.1	15696.9	5636.2	2994.4	2563.7	1979.1	1454.8
80°	1276.3	1318.7	2037.1	4647.7	10984.5	6321.2	2597.2	2005.9	1773.9	1381.2	1019.7
82.5°	709.5	754.2	1155.8	2108.5	4433.5	2155.4	1584.2	1396.8	1167.0	832.3	662.7
85°	401.6	426.2	676.1	1178.1	1878.7	865.7	948.3	928.2	658.2	428.4	325.8
87.5°	189.7	205.3	325.8	546.7	736.3	339.2	482.0	531.0	412.8	261.1	169.6
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°	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9	7012.9
2.5°	7008.4	7048.6	7095.4	7120.0	7142.3	7169.0	7195.8	7195.8	7200.3	7202.5
5°	6959.3	7041.9	7115.5	7146.7	7153.4	7153.4	7146.7	7111.0	7079.8	7093.2
7.5°	6856.7	6977.2	7039.6	7028.5	6943.7	6845.5	6763.0	6662.6	6611.2	6602.3
10°	6709.4	6847.7	6858.9	6747.3	6537.6	6327.9	6153.8	5984.2	5903.9	5883.8
12.5°	6546.5	6673.7	6602.3	6372.5	6035.6	5729.9	5509.0	5337.2	5261.3	5241.2
15°	6414.9	6501.9	6321.2	5959.7	5535.8	5212.2	5029.3	4902.1	4848.5	4832.9
17.5°	6345.7	6363.6	6033.3	5544.7	5094.0	4824.0	4710.2	4650.0	4629.9	4618.7
20°	6379.2	6254.2	5758.9	5158.7	4732.5	4542.9	4516.1	4500.5	4496.0	4489.3
22.5°	6546.5	6220.8	5506.8	4792.8	4415.7	4333.1	4355.4	4353.2	4348.7	4344.3
25°	6845.5	6249.8	5261.3	4444.7	4150.1	4132.3	4172.5	4172.5	4154.6	4154.6
27.5°	7240.4	6310.0	4986.9	4114.4	3909.2	3911.4	3942.6	3933.7	3913.6	3900.2
30°	7722.4	6347.9	4665.6	3817.7	3683.8	3674.9	3683.8	3645.9	3585.6	3581.2
32.5°	8215.5	6301.1	4293.0	3554.4	3445.1	3425.0	3418.3	3364.7	3295.6	3275.5
35°	8661.8	6129.3	3913.6	3344.7	3217.5	3172.9	3204.1	3186.2	3123.8	3108.1
37.5°	8987.5	5810.2	3572.3	3159.5	3054.6	3043.4	3063.5	3070.2	2996.6	2981.0
40°	9206.2	5377.3	3280.0	3003.3	3023.4	2981.0	2914.0	2867.2	2844.9	2838.2
42.5°	9382.5	4926.6	3034.5	2929.6	3030.1	2907.3	2762.3	2686.4	2726.6	2744.5
45°	9585.5	4487.1	2829.2	2838.2	2996.6	2822.5	2657.4	2583.8	2599.4	2603.9
47.5°	9864.4	3951.6	2608.3	2690.9	2885.0	2764.5	2592.7	2487.9	2414.2	2380.8
50°	10250.4	3317.9	2378.5	2525.8	2775.7	2722.1	2492.3	2380.8	2244.7	2213.4
52.5°	10518.2	2726.6	2188.9	2387.5	2677.5	2637.4	2412.0	2267.0	2124.2	2097.4
55°	10373.1	2264.7	2023.8	2233.5	2548.1	2532.5	2345.1	2150.9	2039.4	2017.1
57.5°	9648.0	1972.4	1896.6	2088.5	2389.7	2443.2	2255.8	2052.8	1972.4	1956.8
60°	8264.6	1789.5	1816.2	1990.3	2260.3	2354.0	2166.6	1999.2	1945.7	1934.5
62.5°	6412.7	1666.8	1756.0	1918.9	2159.9	2291.5	2117.5	1992.5	1972.4	1959.0
65°	4594.2	1568.6	1691.3	1847.5	2068.4	2233.5	2099.6	1983.6	1988.1	1976.9
67.5°	3121.5	1481.6	1613.2	1767.2	1979.1	2182.2	2075.1	1952.4	2008.1	1994.7
70°	2184.4	1396.8	1521.7	1664.5	1867.6	2110.8	2030.4	1905.5	1901.0	1847.5
72.5°	1704.7	1285.2	1396.8	1521.7	1724.8	2010.4	1941.2	1800.6	1727.0	1671.2
73°	1626.6	1258.4	1365.5	1490.5	1693.5	1985.8	1916.7	1771.6	1689.1	1637.7
75°	1345.5	1142.4	1240.6	1352.1	1559.7	1869.8	1796.2	1640.0	1535.1	1503.9
77.5°	1057.6	977.3	1071.0	1171.4	1374.5	1700.2	1617.7	1468.2	1410.2	1383.4
80°	783.2	809.9	892.5	981.8	1191.5	1519.5	1445.9	1296.4	1555.2	1490.5
82.5°	551.1	613.6	689.5	769.8	999.6	1343.2	1254.0	1100.0	1137.9	946.1
85°	325.8	401.6	473.0	542.2	720.7	1113.4	1035.3	876.9	718.5	685.0
87.5°	189.7	223.1	243.2	314.6	495.3	839.0	729.6	649.3	372.6	252.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)