

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: P192336

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192336
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-08-LED-E1-T4FT-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA 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: 47992 lumens
Efficiency: N/A
Efficacy: 107.8 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

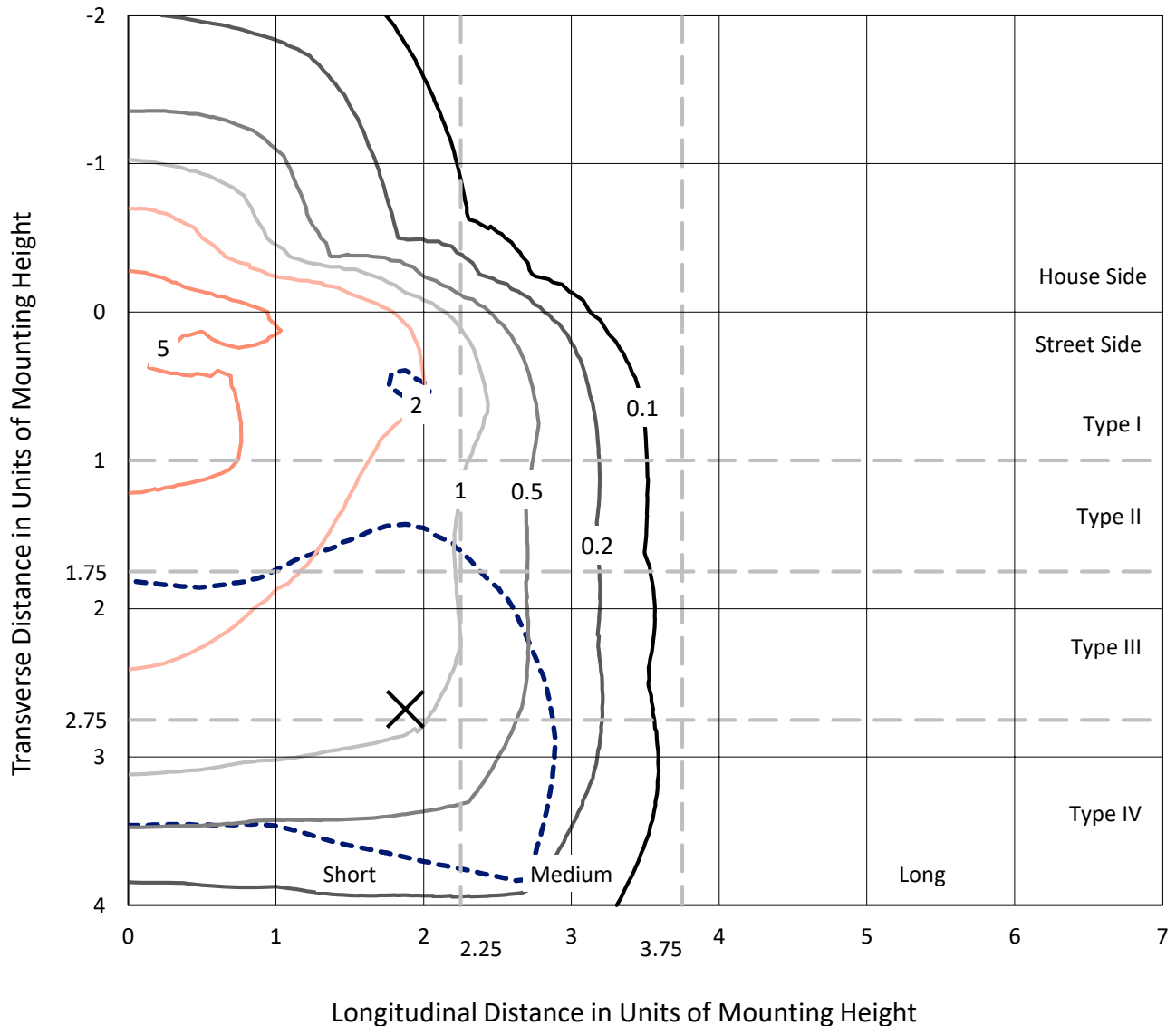
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

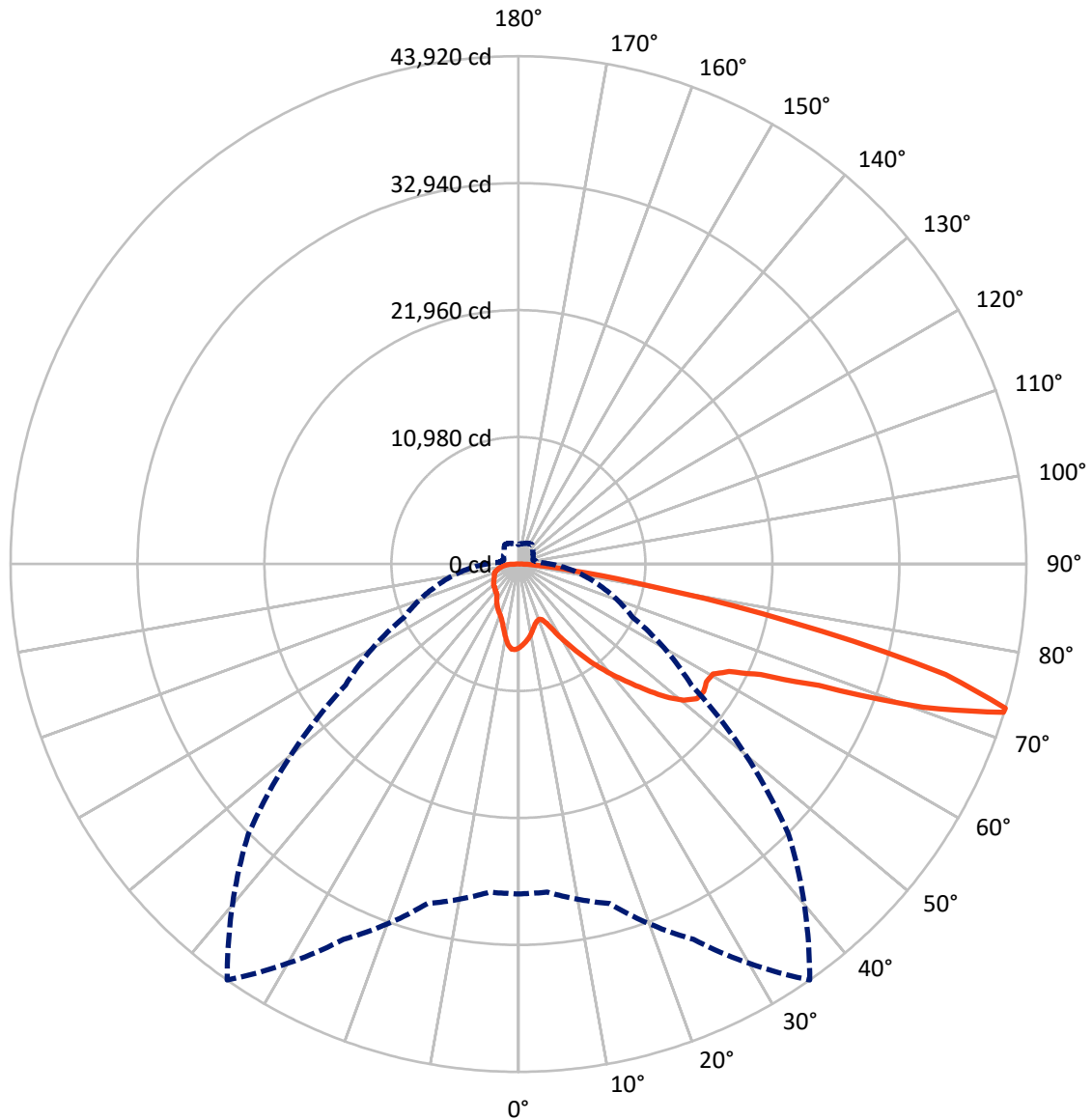
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	9153.4	0.0	9153.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	38838.6	0.0	38838.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	47992.0	0.0	47992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	1.4
10°-20°	1636.6	3.4
20°-30°	2645.9	5.5
30°-40°	4436.7	9.2
40°-50°	6839.0	14.3
50°-60°	9175.3	19.1
60°-70°	12223.3	25.5
70°-80°	9322.7	19.4
80°-90°	1056.7	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°	47992.0	100.0
0°-180°	47992.0	100.0

Coefficient of Utilization



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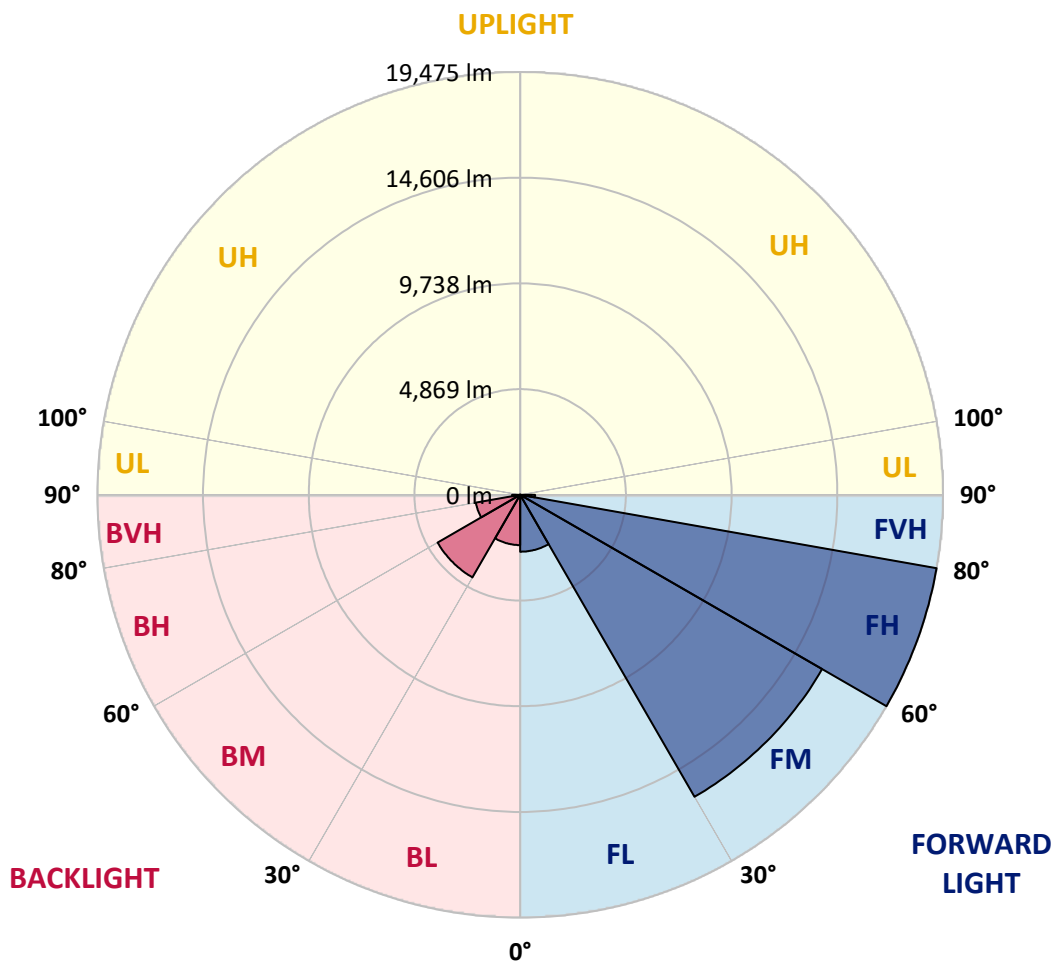
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2622.0	5.5			
FM	(30°-60°)	16058.4	33.5			
FH	(60°-80°)	19475.1	40.6			G5
FVH	(80°-90°)	683.0	1.4			G4/750
BL	(0°-30°)	2316.2	4.8	B3/2500		
BM	(30°-60°)	4392.6	9.2	B3/5000		
BH	(60°-80°)	2070.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	373.6	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°	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5
2.5°	6957.7	6971.5	6955.4	6976.1	7010.7	7047.6	7072.9	7109.8	7151.3	7208.9	7222.7
5°	6630.4	6651.2	6651.2	6688.1	6754.9	6814.8	6870.1	6930.1	7017.6	7116.7	7155.9
7.5°	6270.9	6282.4	6303.2	6358.5	6455.3	6540.6	6618.9	6715.7	6835.6	6966.9	7036.1
10°	5837.7	5853.8	5886.1	5964.4	6095.8	6213.3	6326.2	6459.9	6612.0	6775.6	6863.2
12.5°	5531.1	5526.5	5540.4	5598.0	5713.2	5856.1	6019.7	6190.3	6376.9	6568.2	6674.2
15°	5427.4	5402.1	5349.1	5335.2	5397.5	5540.4	5729.3	5939.1	6162.6	6393.1	6524.4
17.5°	5492.0	5448.2	5303.0	5197.0	5187.7	5296.1	5496.6	5731.6	5989.8	6270.9	6434.6
20°	5897.6	5793.9	5436.6	5190.0	5104.8	5157.8	5332.9	5581.8	5886.1	6259.4	6469.1
22.5°	6867.8	6715.7	5957.5	5498.9	5210.8	5146.3	5277.6	5542.7	5897.6	6402.3	6669.6
25°	8280.6	8063.9	6851.7	6268.6	5674.0	5330.6	5360.6	5632.5	6061.2	6734.2	7056.8
27.5°	9396.0	9255.4	8020.1	7354.1	6517.5	5828.4	5630.2	5858.4	6395.4	7278.1	7607.6
30°	10059.8	9974.5	9269.3	8584.8	7593.8	6621.2	6146.5	6282.4	6918.5	8031.7	8303.6
32.5°	10829.5	10778.8	10433.1	9803.9	8755.3	7662.9	6964.6	6916.2	7619.1	8937.4	9061.8
35°	11626.9	11610.8	11408.0	10956.3	10002.1	9036.5	8050.1	7722.8	8382.0	9877.7	9799.3
37.5°	12369.0	12341.3	12223.8	11961.1	11306.6	10511.5	9156.3	8550.2	9204.7	10776.5	10428.5
40°	13735.7	13519.0	13115.7	12917.5	12624.8	11753.7	10034.4	9322.3	10057.4	11633.8	10972.4
42.5°	15401.9	15049.3	14298.0	14026.0	13984.6	12733.1	10633.6	10071.3	10917.1	12484.2	11507.1
45°	16713.2	16381.4	15733.8	15390.4	15542.5	13620.4	11235.1	10871.0	11802.1	13376.1	12057.9
47.5°	18112.2	17591.3	16734.0	16837.7	17169.6	14459.3	11848.2	11730.6	12772.3	14374.0	12742.4
50°	18162.9	17764.2	17388.5	18008.5	18524.7	15231.4	12615.6	12631.7	13959.2	15630.1	13652.7
52.5°	17109.6	17024.4	17621.3	18596.1	19340.5	15842.1	13489.1	13562.8	15478.0	17072.8	14652.9
55°	16740.9	16644.1	17333.2	18391.0	19451.2	16346.8	14436.3	14569.9	17314.8	18593.8	15627.8
57.5°	17639.7	17425.4	17471.5	18294.2	19181.5	16899.9	15468.7	15738.4	19310.6	19923.6	16254.6
60°	20151.8	19693.1	18822.0	18801.3	19326.7	17729.6	16662.5	16992.1	21384.8	20559.7	16010.3
62.5°	23675.6	23216.9	21585.3	20522.8	20444.5	19098.6	18128.3	18215.9	22583.2	19697.8	14519.2
65°	27489.7	27079.5	25256.6	23756.2	23032.6	21366.3	19831.4	18762.1	22191.4	17326.3	11910.4
67.5°	32119.8	31679.6	30112.4	28727.3	28031.3	25026.1	21027.5	18238.9	19704.7	13422.2	8561.7
70°	35357.8	34908.4	34290.7	35413.1	37116.2	30306.0	21181.9	16111.7	14717.4	8921.3	5153.2
72.5°	31133.4	30923.7	32050.6	36777.4	43871.1	33509.5	19146.9	11730.6	8547.9	4736.0	2982.2
73°	28524.5	28478.4	30400.5	35821.0	43919.5	33016.3	18255.1	10903.3	7331.1	4189.8	2726.4
75°	12880.6	13251.7	17464.6	27360.7	38157.9	27206.3	12848.4	6254.8	4141.4	2894.6	2058.0
77.5°	3095.1	3224.2	5464.3	12993.6	24097.3	16213.1	5821.5	3092.8	2648.0	2044.2	1502.6
80°	1318.3	1362.0	2104.1	4800.6	11345.7	6529.0	2682.6	2071.9	1832.2	1426.6	1053.2
82.5°	732.9	779.0	1193.8	2177.9	4579.3	2226.3	1636.3	1442.7	1205.3	859.6	684.5
85°	414.8	440.2	698.3	1216.8	1940.5	894.2	979.5	958.7	679.9	442.5	336.5
87.5°	195.9	212.0	336.5	564.6	760.5	350.3	497.8	548.5	426.4	269.6	175.2
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°	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5	7243.5
2.5°	7238.9	7280.4	7328.8	7354.1	7377.2	7404.8	7432.5	7432.5	7437.1	7439.4
5°	7188.2	7273.4	7349.5	7381.8	7388.7	7388.7	7381.8	7344.9	7312.6	7326.5
7.5°	7082.2	7206.6	7271.1	7259.6	7172.0	7070.6	6985.4	6881.7	6828.6	6819.4
10°	6930.1	7072.9	7084.5	6969.2	6752.6	6536.0	6356.2	6181.0	6098.1	6077.3
12.5°	6761.8	6893.2	6819.4	6582.1	6234.1	5918.3	5690.2	5512.7	5434.3	5413.6
15°	6625.8	6715.7	6529.0	6155.7	5717.8	5383.6	5194.7	5063.3	5008.0	4991.9
17.5°	6554.4	6572.8	6231.7	5727.0	5261.5	4982.6	4865.1	4802.9	4782.1	4770.6
20°	6589.0	6459.9	5948.3	5328.3	4888.1	4692.2	4664.6	4648.5	4643.8	4636.9
22.5°	6761.8	6425.3	5687.9	4950.4	4560.9	4475.6	4498.7	4496.4	4491.7	4487.1
25°	7070.6	6455.3	5434.3	4590.8	4286.6	4268.2	4309.7	4309.7	4291.2	4291.2
27.5°	7478.6	6517.5	5150.9	4249.8	4037.7	4040.0	4072.3	4063.1	4042.3	4028.5
30°	7976.4	6556.7	4819.0	3943.2	3805.0	3795.7	3805.0	3765.8	3703.6	3698.9
32.5°	8485.7	6508.3	4434.1	3671.3	3558.4	3537.6	3530.7	3475.4	3404.0	3383.2
35°	8946.6	6330.8	4042.3	3454.7	3323.3	3277.2	3309.5	3291.0	3226.5	3210.4
37.5°	9283.1	6001.3	3689.7	3263.4	3155.1	3143.5	3164.3	3171.2	3095.1	3079.0
40°	9508.9	5554.2	3387.8	3102.0	3122.8	3079.0	3009.9	2961.5	2938.4	2931.5
42.5°	9691.0	5088.6	3134.3	3026.0	3129.7	3002.9	2853.1	2774.8	2816.3	2834.7
45°	9900.7	4634.6	2922.3	2931.5	3095.1	2915.4	2744.8	2668.8	2684.9	2689.5
47.5°	10188.8	4081.5	2694.1	2779.4	2979.9	2855.4	2678.0	2569.7	2493.6	2459.1
50°	10587.5	3427.0	2456.7	2608.9	2867.0	2811.7	2574.3	2459.1	2318.5	2286.2
52.5°	10864.1	2816.3	2260.9	2466.0	2765.6	2724.1	2491.3	2341.5	2194.0	2166.4
55°	10714.3	2339.2	2090.3	2306.9	2631.9	2615.8	2422.2	2221.7	2106.4	2083.4
57.5°	9965.3	2037.3	1958.9	2157.1	2468.3	2523.6	2330.0	2120.3	2037.3	2021.2
60°	8536.4	1848.3	1876.0	2055.7	2334.6	2431.4	2237.8	2065.0	2009.6	1998.1
62.5°	6623.5	1721.6	1813.8	1982.0	2230.9	2366.9	2187.1	2058.0	2037.3	2023.5
65°	4745.3	1620.2	1746.9	1908.2	2136.4	2306.9	2168.7	2048.8	2053.4	2041.9
67.5°	3224.2	1530.3	1666.3	1825.3	2044.2	2253.9	2143.3	2016.6	2074.2	2060.3
70°	2256.2	1442.7	1571.8	1719.3	1929.0	2180.2	2097.2	1968.2	1963.6	1908.2
72.5°	1760.7	1327.5	1442.7	1571.8	1781.5	2076.5	2005.0	1859.8	1783.8	1726.2
73°	1680.1	1299.8	1410.4	1539.5	1749.2	2051.1	1979.7	1829.9	1744.6	1691.6
75°	1389.7	1180.0	1281.4	1396.6	1610.9	1931.3	1855.2	1693.9	1585.6	1553.3
77.5°	1092.4	1009.4	1106.2	1209.9	1419.7	1756.1	1670.9	1516.5	1456.5	1428.9
80°	808.9	836.6	921.9	1014.0	1230.7	1569.5	1493.4	1339.0	1606.3	1539.5
82.5°	569.2	633.8	712.1	795.1	1032.5	1387.4	1295.2	1136.2	1175.4	977.2
85°	336.5	414.8	488.6	560.0	744.4	1150.0	1069.4	905.7	742.1	707.5
87.5°	195.9	230.5	251.2	325.0	511.6	866.5	753.6	670.7	384.9	260.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)