

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: P192328

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192328
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA 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: 47888 lumens
Efficiency: N/A
Efficacy: 114.3 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): 419
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

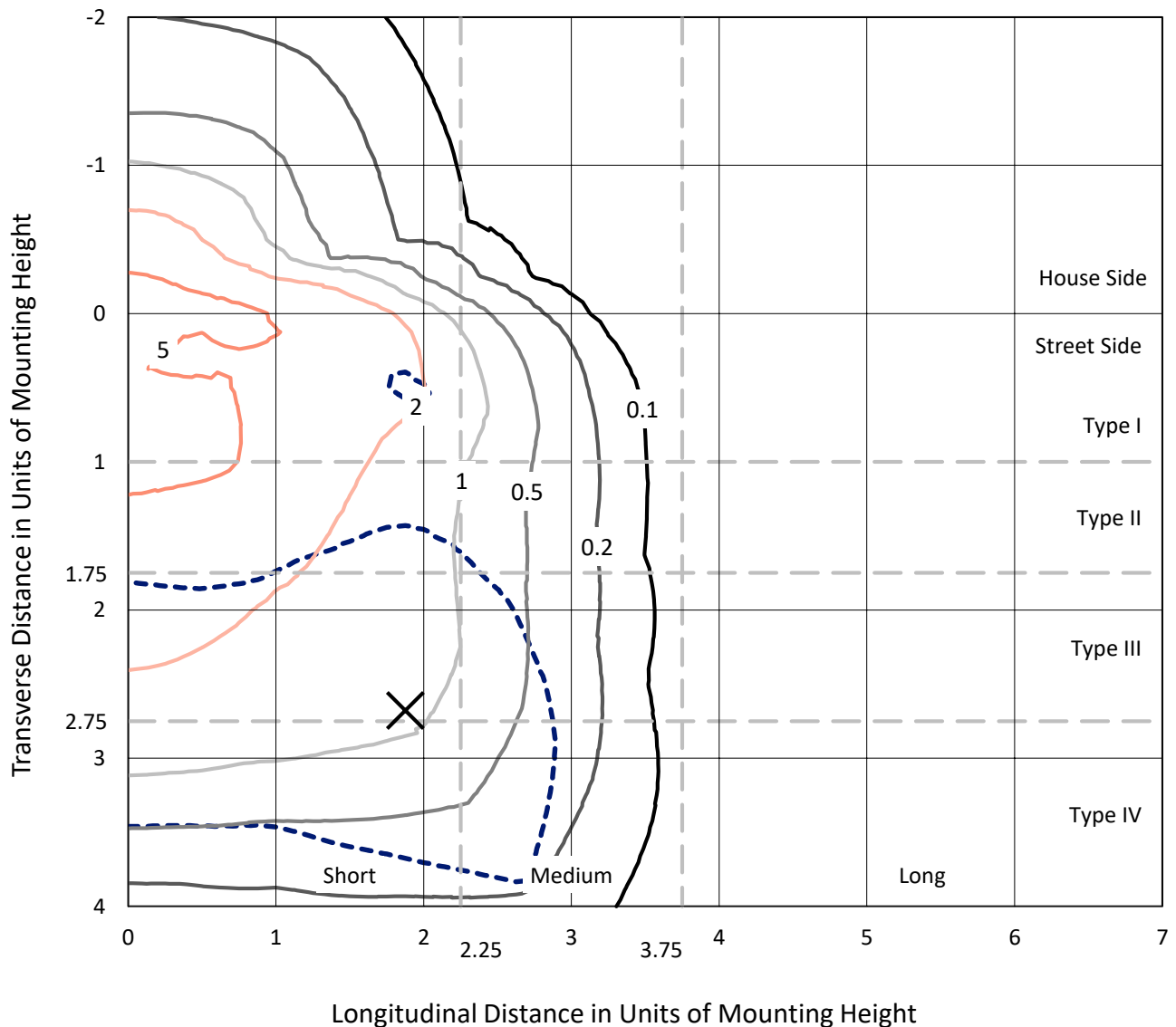


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

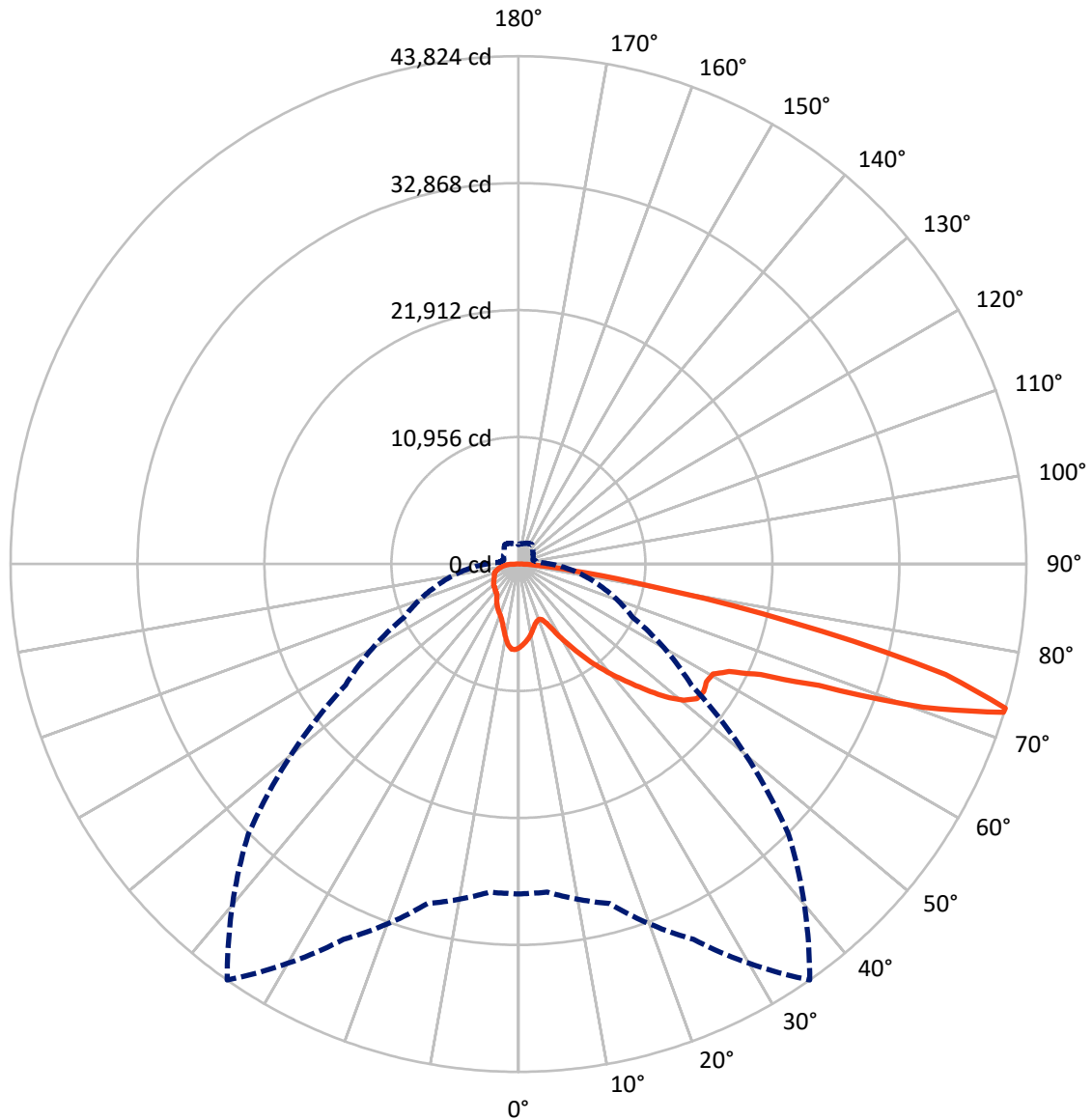


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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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	9133.6	0.0	9133.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	38754.4	0.0	38754.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	47888.0	0.0	47888.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.3	1.4
10°-20°	1633.1	3.4
20°-30°	2640.1	5.5
30°-40°	4427.1	9.2
40°-50°	6824.2	14.3
50°-60°	9155.4	19.1
60°-70°	12196.9	25.5
70°-80°	9302.5	19.4
80°-90°	1054.4	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°	47888.0	100.0
0°-180°	47888.0	100.0



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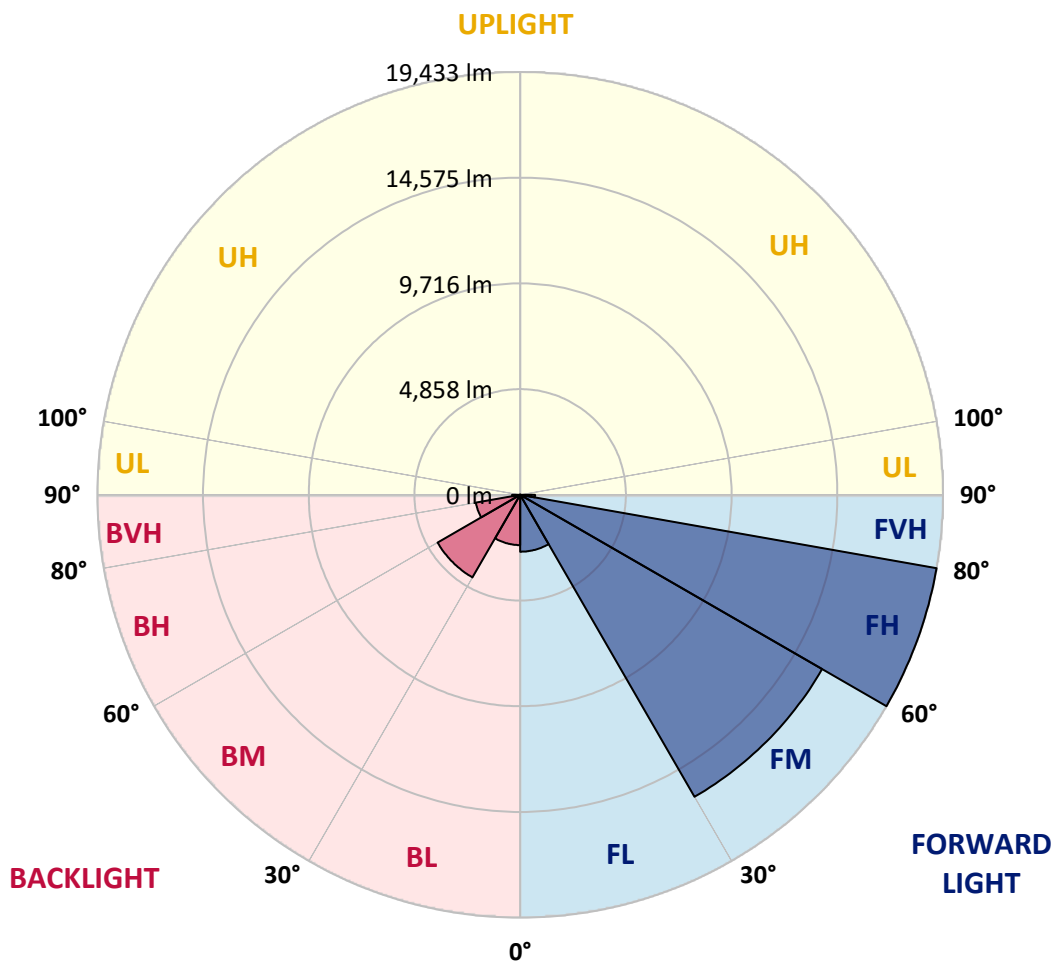
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.3	5.5			
FM (30°-60°)	16023.6	33.5			
FH (60°-80°)	19432.9	40.6			G5
FVH (80°-90°)	681.6	1.4			G4/750
BL (0°-30°)	2311.2	4.8	B3/2500		
BM (30°-60°)	4383.1	9.2	B3/5000		
BH (60°-80°)	2066.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	372.8	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°	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8
2.5°	6942.6	6956.4	6940.3	6961.0	6995.5	7032.3	7057.6	7094.4	7135.8	7193.3	7207.1
5°	6616.1	6636.8	6636.8	6673.6	6740.3	6800.1	6855.2	6915.0	7002.4	7101.3	7140.4
7.5°	6257.3	6268.8	6289.5	6344.7	6441.3	6526.4	6604.6	6701.2	6820.7	6951.8	7020.8
10°	5825.0	5841.1	5873.3	5951.5	6082.6	6199.8	6312.5	6445.9	6597.7	6761.0	6848.3
12.5°	5519.1	5514.6	5528.3	5585.8	5700.8	5843.4	6006.7	6176.8	6363.1	6554.0	6659.8
15°	5415.7	5390.4	5337.5	5323.7	5385.8	5528.3	5716.9	5926.2	6149.3	6379.2	6510.3
17.5°	5480.1	5436.4	5291.5	5185.7	5176.5	5284.6	5484.7	5719.2	5976.8	6257.3	6420.6
20°	5884.8	5781.3	5424.9	5178.8	5093.7	5146.6	5321.4	5569.7	5873.3	6245.8	6455.1
22.5°	6852.9	6701.2	5944.6	5487.0	5199.5	5135.1	5266.2	5530.6	5884.8	6388.4	6655.2
25°	8262.6	8046.5	6836.8	6255.0	5661.7	5319.1	5349.0	5620.3	6048.1	6719.6	7041.5
27.5°	9375.7	9235.4	8002.8	7338.2	6503.4	5815.8	5618.0	5845.7	6381.5	7262.3	7591.1
30°	10038.0	9952.9	9249.2	8566.2	7577.3	6606.9	6133.2	6268.8	6903.5	8014.3	8285.6
32.5°	10806.0	10755.4	10410.5	9782.7	8736.4	7646.3	6949.5	6901.2	7602.6	8918.0	9042.2
35°	11601.7	11585.6	11383.2	10932.5	9980.5	9016.9	8032.7	7706.1	8363.8	9856.3	9778.1
37.5°	12342.2	12314.6	12197.3	11935.2	11282.1	10488.7	9136.5	8531.7	9184.8	10753.1	10405.9
40°	13705.9	13489.7	13087.3	12889.5	12597.5	11728.2	10012.7	9302.1	10035.7	11608.6	10948.6
42.5°	15368.5	15016.7	14267.0	13995.6	13954.3	12705.5	10610.6	10049.5	10893.4	12457.2	11482.1
45°	16677.0	16345.9	15699.7	15357.0	15508.8	13590.9	11210.8	10847.4	11776.5	13347.1	12031.7
47.5°	18072.9	17553.2	16697.7	16801.2	17132.4	14428.0	11822.5	11705.2	12744.6	14342.9	12714.7
50°	18123.5	17725.7	17350.8	17969.4	18484.6	15198.4	12588.3	12604.4	13929.0	15596.2	13623.1
52.5°	17072.6	16987.5	17583.1	18555.8	19298.6	15807.8	13459.8	13533.4	15444.4	17035.8	14621.1
55°	16704.6	16608.0	17295.6	18351.2	19409.0	16311.4	14405.0	14538.4	17277.2	18553.5	15593.9
57.5°	17601.5	17387.6	17433.6	18254.6	19140.0	16863.3	15435.2	15704.3	19268.7	19880.4	16219.4
60°	20108.1	19650.5	18781.2	18760.5	19284.8	17691.2	16626.4	16955.3	21338.4	20515.1	15975.6
62.5°	23624.3	23166.6	21538.5	20478.3	20400.2	19057.2	18089.0	18176.4	22534.2	19655.1	14487.8
65°	27430.2	27020.8	25201.8	23704.7	22982.7	21320.0	19788.5	18721.4	22143.3	17288.7	11884.6
67.5°	32050.2	31610.9	30047.2	28665.1	27970.6	24971.9	20982.0	18199.4	19662.0	13393.1	8543.2
70°	35281.2	34832.7	34216.4	35336.4	37035.8	30240.3	21136.0	16076.8	14685.5	8901.9	5142.0
72.5°	31065.9	30856.6	31981.2	36697.7	43776.1	33436.9	19105.5	11705.2	8529.4	4725.8	2975.7
73°	28462.7	28416.7	30334.6	35743.4	43824.4	32944.7	18215.5	10879.6	7315.2	4180.8	2720.5
75°	12852.7	13223.0	17426.7	27301.4	38075.2	27147.3	12820.5	6241.2	4132.5	2888.4	2053.6
77.5°	3088.4	3217.2	5452.5	12965.4	24045.1	16178.0	5808.9	3086.1	2642.3	2039.8	1499.4
80°	1315.4	1359.1	2099.6	4790.2	11321.2	6514.9	2676.8	2067.4	1828.2	1423.5	1050.9
82.5°	731.3	777.3	1191.2	2173.2	4569.4	2221.5	1632.7	1439.6	1202.7	857.8	683.0
85°	413.9	439.2	696.8	1214.2	1936.3	892.3	977.3	956.7	678.4	441.5	335.7
87.5°	195.5	211.6	335.7	563.4	758.9	349.5	496.7	547.3	425.4	269.1	174.8
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°	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8	7227.8
2.5°	7223.2	7264.6	7312.9	7338.2	7361.2	7388.8	7416.4	7416.4	7421.0	7423.3
5°	7172.6	7257.7	7333.6	7365.8	7372.7	7372.7	7365.8	7329.0	7296.8	7310.6
7.5°	7066.8	7191.0	7255.4	7243.9	7156.5	7055.3	6970.2	6866.7	6813.9	6804.7
10°	6915.0	7057.6	7069.1	6954.1	6738.0	6521.8	6342.4	6167.7	6084.9	6064.2
12.5°	6747.2	6878.2	6804.7	6567.8	6220.5	5905.5	5677.8	5500.8	5422.6	5401.9
15°	6611.5	6701.2	6514.9	6142.4	5705.4	5372.0	5183.4	5052.3	4997.1	4981.0
17.5°	6540.2	6558.6	6218.2	5714.6	5250.1	4971.8	4854.6	4792.5	4771.8	4760.3
20°	6574.7	6445.9	5935.4	5316.8	4877.5	4682.1	4654.5	4638.4	4633.8	4626.9
22.5°	6747.2	6411.4	5675.5	4939.6	4551.0	4465.9	4488.9	4486.6	4482.0	4477.4
25°	7055.3	6441.3	5422.6	4580.9	4277.3	4258.9	4300.3	4300.3	4281.9	4281.9
27.5°	7462.4	6503.4	5139.7	4240.5	4029.0	4031.3	4063.5	4054.3	4033.6	4019.8
30°	7959.1	6542.5	4808.6	3934.7	3796.7	3787.5	3796.7	3757.6	3695.5	3690.9
32.5°	8467.3	6494.2	4424.5	3663.3	3550.7	3530.0	3523.1	3467.9	3396.6	3375.9
35°	8927.2	6317.1	4033.6	3447.2	3316.1	3270.1	3302.3	3283.9	3219.5	3203.4
37.5°	9263.0	5988.3	3681.7	3256.3	3148.2	3136.7	3157.4	3164.3	3088.4	3072.3
40°	9488.3	5542.1	3380.5	3095.3	3116.0	3072.3	3003.3	2955.0	2932.0	2925.1
42.5°	9670.0	5077.6	3127.5	3019.4	3122.9	2996.4	2847.0	2768.8	2810.2	2828.6
45°	9879.3	4624.6	2916.0	2925.1	3088.4	2909.1	2738.9	2663.0	2679.1	2683.7
47.5°	10166.7	4072.7	2688.3	2773.4	2973.4	2849.3	2672.2	2564.1	2488.2	2453.7
50°	10564.6	3419.6	2451.4	2603.2	2860.8	2805.6	2568.7	2453.7	2313.4	2281.2
52.5°	10840.5	2810.2	2256.0	2460.6	2759.6	2718.2	2485.9	2336.4	2189.3	2161.7
55°	10691.1	2334.1	2085.8	2301.9	2626.2	2610.1	2416.9	2216.9	2101.9	2078.9
57.5°	9943.7	2032.9	1954.7	2152.5	2462.9	2518.1	2324.9	2115.7	2032.9	2016.8
60°	8517.9	1844.3	1871.9	2051.3	2329.5	2426.1	2233.0	2060.5	2005.3	1993.8
62.5°	6609.2	1717.8	1809.8	1977.7	2226.1	2361.7	2182.4	2053.6	2032.9	2019.1
65°	4735.0	1616.7	1743.1	1904.1	2131.8	2301.9	2164.0	2044.4	2049.0	2037.5
67.5°	3217.2	1527.0	1662.6	1821.3	2039.8	2249.1	2138.7	2012.2	2069.7	2055.9
70°	2251.4	1439.6	1568.4	1715.5	1924.8	2175.5	2092.7	1963.9	1959.3	1904.1
72.5°	1756.9	1324.6	1439.6	1568.4	1777.6	2072.0	2000.7	1855.8	1779.9	1722.4
73°	1676.4	1297.0	1407.4	1536.2	1745.4	2046.7	1975.4	1825.9	1740.8	1687.9
75°	1386.7	1177.4	1278.6	1393.6	1607.5	1927.1	1851.2	1690.2	1582.2	1550.0
77.5°	1090.0	1007.2	1103.8	1207.3	1416.6	1752.3	1667.2	1513.2	1453.4	1425.8
80°	807.2	834.8	919.9	1011.8	1228.0	1566.1	1490.2	1336.1	1602.9	1536.2
82.5°	568.0	632.4	710.6	793.4	1030.2	1384.4	1292.4	1133.7	1172.8	975.0
85°	335.7	413.9	487.5	558.8	742.8	1147.5	1067.0	903.8	740.5	706.0
87.5°	195.5	230.0	250.7	324.3	510.5	864.7	752.0	669.2	384.0	259.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)