

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: P191535

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191535
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 43328.1 lumens
Efficiency: N/A
Efficacy: 110.8 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

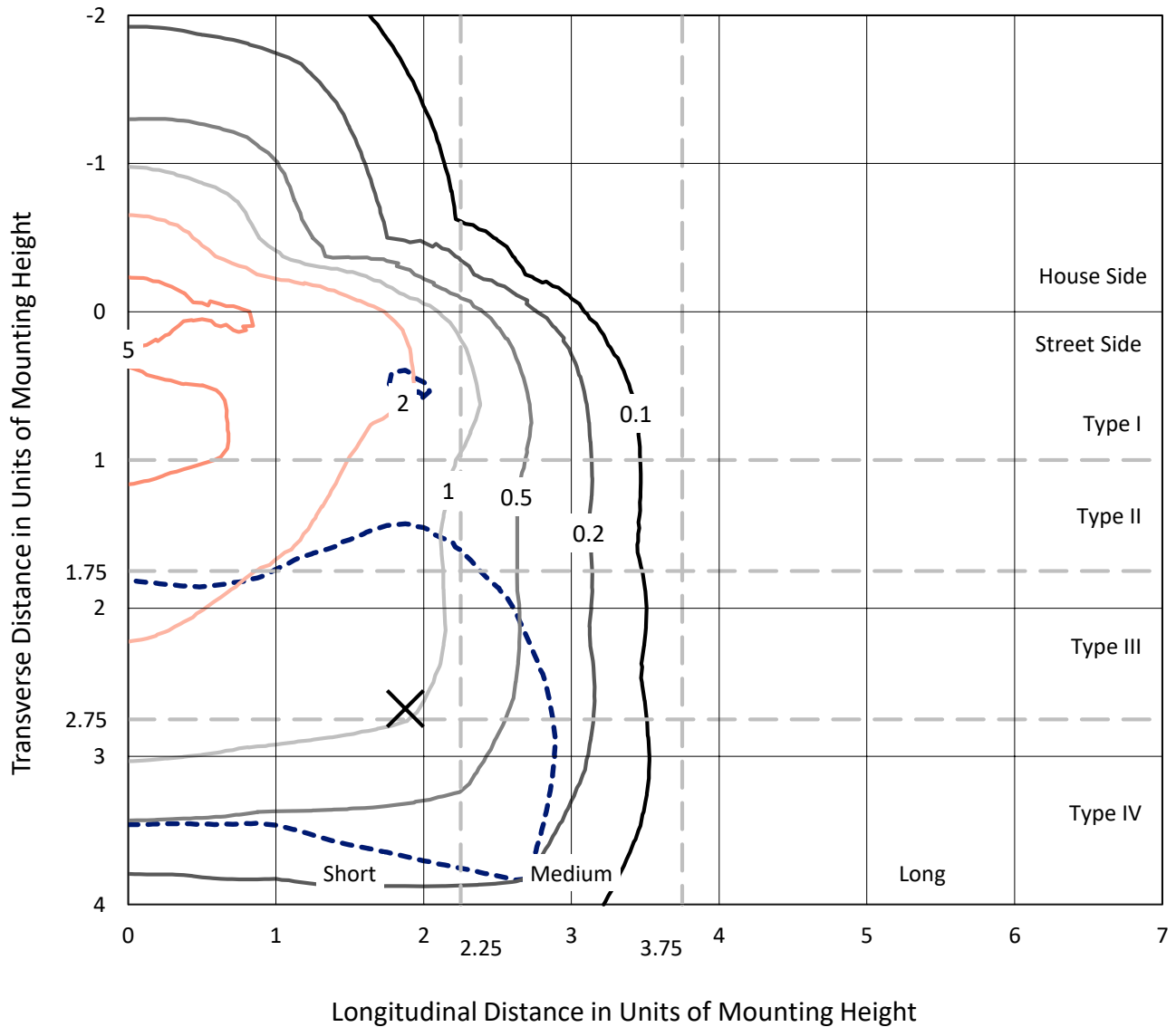
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

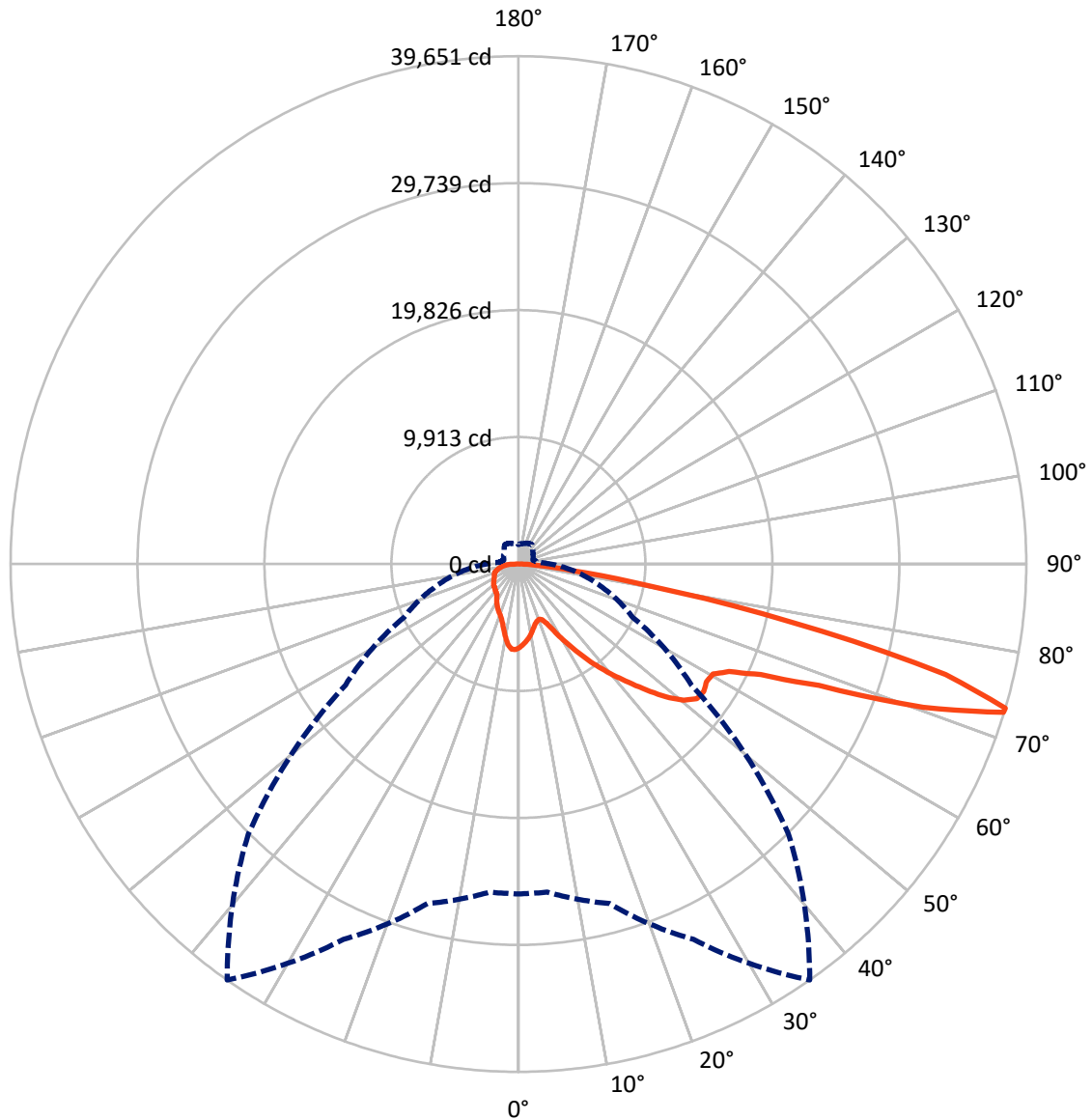
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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	8263.9	0.0	8263.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35064.2	0.0	35064.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	43328.1	0.0	43328.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.0	1.4
10°-20°	1477.6	3.4
20°-30°	2388.7	5.5
30°-40°	4005.6	9.2
40°-50°	6174.4	14.3
50°-60°	8283.6	19.1
60°-70°	11035.5	25.5
70°-80°	8416.7	19.4
80°-90°	954.0	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°	43328.1	100.0
0°-180°	43328.1	100.0

Coefficient of Utilization



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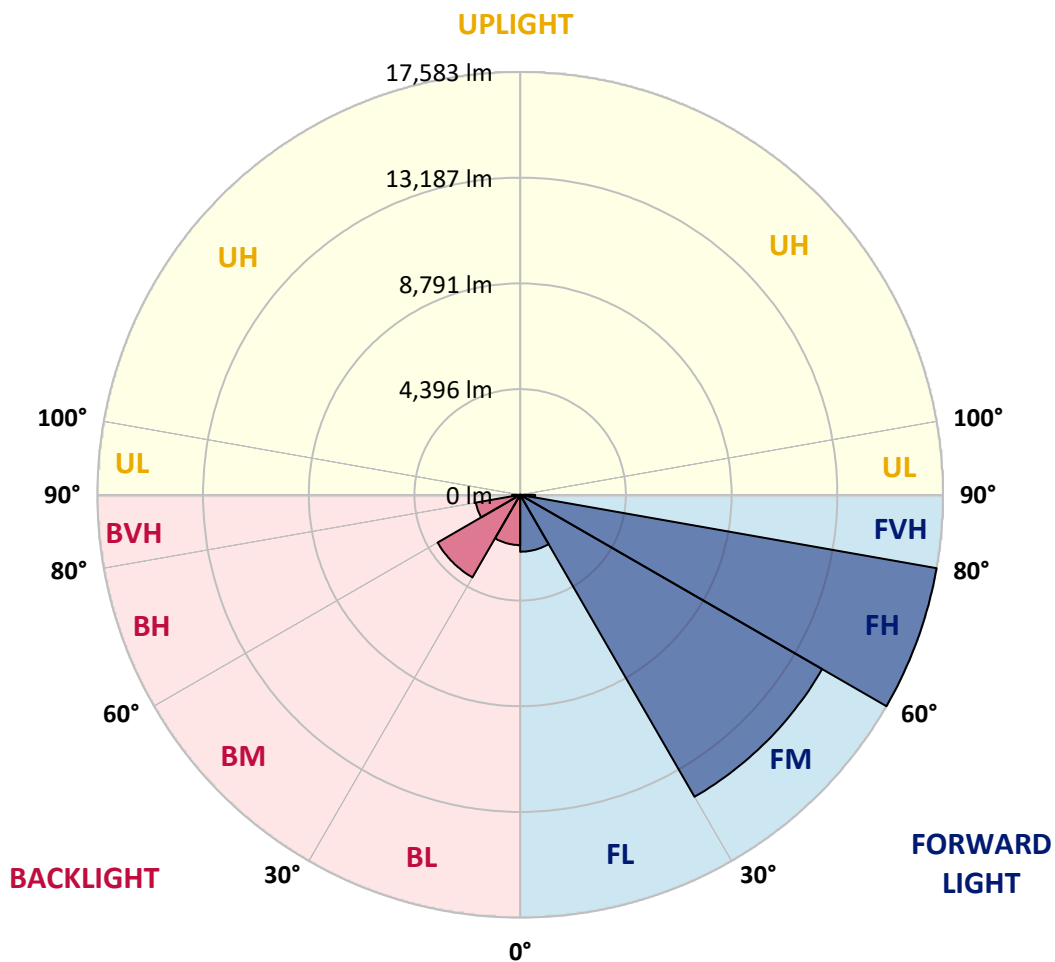
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2367.2	5.5			
FM	(30°-60°)	14497.9	33.5			
FH	(60°-80°)	17582.5	40.6			G5
FVH	(80°-90°)	616.7	1.4			G4/750
BL	(0°-30°)	2091.2	4.8	B3/2500		
BM	(30°-60°)	3965.7	9.2	B3/5000		
BH	(60°-80°)	1869.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	337.3	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°	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5
2.5°	6281.5	6294.0	6279.5	6298.2	6329.4	6362.7	6385.6	6418.9	6456.4	6508.3	6520.8
5°	5986.1	6004.8	6004.8	6038.1	6098.4	6152.5	6202.5	6256.6	6335.6	6425.2	6460.4
7.5°	5661.5	5672.0	5690.7	5740.6	5828.0	5905.0	5975.7	6063.1	6171.3	6289.9	6352.3
10°	5270.3	5284.9	5314.0	5384.8	5503.4	5609.5	5711.4	5832.1	5969.4	6117.1	6196.2
12.5°	4993.6	4989.4	5001.9	5054.0	5158.0	5287.0	5434.7	5588.7	5757.3	5929.9	6025.6
15°	4900.0	4877.1	4829.2	4816.8	4872.9	5001.9	5172.6	5361.9	5563.7	5771.8	5890.4
17.5°	4958.2	4918.8	4787.6	4692.0	4683.6	4781.4	4962.4	5174.6	5407.6	5661.5	5809.2
20°	5324.5	5230.9	4908.3	4685.6	4608.7	4656.6	4814.7	5039.4	5314.0	5651.1	5840.4
22.5°	6200.4	6063.1	5378.6	4964.5	4704.4	4646.1	4764.7	5004.1	5324.5	5780.1	6021.5
25°	7475.8	7280.2	6185.9	5659.5	5122.6	4812.6	4839.7	5085.2	5472.2	6079.7	6371.0
27.5°	8482.9	8356.0	7240.8	6639.5	5884.1	5262.1	5083.0	5289.1	5773.8	6570.7	6868.3
30°	9082.2	9005.1	8368.5	7750.5	6855.8	5977.8	5549.2	5672.0	6246.1	7251.2	7496.7
32.5°	9777.1	9731.3	9419.2	8851.2	7904.4	6918.2	6287.8	6244.1	6878.7	8068.8	8181.3
35°	10497.0	10482.5	10299.4	9891.5	9030.1	8158.3	7267.8	6972.3	7567.4	8917.8	8847.0
37.5°	11166.9	11142.0	11035.9	10798.7	10207.8	9489.9	8266.5	7719.3	8310.2	9729.2	9415.0
40°	12400.8	12205.2	11841.1	11662.2	11397.9	10611.5	9059.3	8416.3	9080.0	10503.2	9906.1
42.5°	13905.2	13586.8	12908.5	12663.0	12625.6	11495.7	9600.2	9092.5	9856.1	11271.0	10388.8
45°	15089.0	14789.4	14204.8	13894.7	14032.0	12296.8	10143.3	9814.5	10655.2	12076.2	10886.0
47.5°	16352.0	15881.8	15107.8	15201.4	15501.0	13054.2	10696.8	10590.6	11531.1	12977.2	11504.0
50°	16397.8	16037.8	15698.7	16258.4	16724.4	13751.2	11389.6	11404.2	12602.7	14111.1	12325.9
52.5°	15447.0	15369.9	15908.8	16789.0	17461.1	14302.6	12178.2	12244.7	13973.8	15413.6	13228.9
55°	15114.0	15026.6	15648.8	16603.8	17560.9	14758.2	13033.3	13154.0	15632.1	16786.8	14109.0
57.5°	15925.5	15732.0	15773.6	16516.4	17317.4	15257.6	13965.5	14208.9	17433.9	17987.5	14674.9
60°	18193.4	17779.4	16992.8	16974.1	17448.6	16006.6	15043.3	15340.8	19306.6	18561.6	14454.4
62.5°	21374.8	20960.7	19487.6	18528.4	18457.6	17242.6	16366.6	16445.7	20388.5	17783.5	13108.2
65°	24818.3	24447.9	22802.1	21447.6	20794.2	19289.9	17904.2	16938.7	20034.8	15642.6	10753.0
67.5°	28998.3	28601.0	27186.0	25935.6	25307.2	22594.0	18984.0	16466.4	17789.7	12117.9	7729.7
70°	31921.7	31516.0	30958.4	31971.6	33509.2	27360.9	19123.5	14546.0	13287.2	8054.3	4652.4
72.5°	28107.8	27918.5	28935.9	33203.3	39607.7	30253.0	17286.2	10590.6	7717.2	4275.8	2692.4
73°	25752.5	25710.8	27446.2	32339.9	39651.4	29807.8	16481.0	9843.7	6618.6	3782.7	2461.4
75°	11628.9	11963.9	15767.4	24701.8	34449.7	24562.4	11599.8	5647.0	3739.0	2613.3	1858.1
77.5°	2794.4	2910.9	4933.3	11730.8	21755.5	14637.5	5255.8	2792.2	2390.7	1845.6	1356.6
80°	1190.1	1229.7	1899.6	4334.0	10243.1	5894.5	2421.9	1870.6	1654.1	1287.9	950.8
82.5°	661.6	703.3	1077.8	1966.2	4134.3	2009.9	1477.2	1302.5	1088.2	776.1	618.0
85°	374.5	397.4	630.4	1098.5	1751.9	807.3	884.2	865.5	613.8	399.5	303.8
87.5°	176.9	191.4	303.8	509.7	686.6	316.3	449.4	495.2	384.9	243.5	158.1
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°	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5	6539.5
2.5°	6535.4	6572.9	6616.5	6639.5	6660.2	6685.2	6710.1	6710.1	6714.3	6716.4
5°	6489.6	6566.6	6635.3	6664.4	6670.7	6670.7	6664.4	6631.1	6602.0	6614.5
7.5°	6394.0	6506.3	6564.5	6554.1	6475.1	6383.5	6306.5	6212.9	6165.0	6156.7
10°	6256.6	6385.6	6396.0	6292.0	6096.4	5900.8	5738.4	5580.4	5505.4	5486.7
12.5°	6104.7	6223.3	6156.7	5942.4	5628.2	5343.2	5137.2	4977.0	4906.3	4887.5
15°	5981.9	6063.1	5894.5	5557.5	5162.1	4860.4	4689.8	4571.3	4521.3	4506.7
17.5°	5917.5	5934.0	5626.1	5170.5	4750.2	4498.4	4392.3	4336.1	4317.4	4307.0
20°	5948.7	5832.1	5370.2	4810.5	4413.1	4236.2	4211.3	4196.8	4192.6	4186.3
22.5°	6104.7	5800.9	5135.1	4469.3	4117.7	4040.7	4061.5	4059.4	4055.2	4051.1
25°	6383.5	5828.0	4906.3	4144.7	3870.0	3853.5	3890.9	3890.9	3874.2	3874.2
27.5°	6751.8	5884.1	4650.3	3836.8	3645.4	3647.4	3676.6	3668.2	3649.5	3637.0
30°	7201.2	5919.5	4350.7	3560.1	3435.2	3426.9	3435.2	3399.8	3343.6	3339.5
32.5°	7661.1	5875.8	4003.2	3314.5	3212.6	3193.9	3187.6	3137.7	3073.1	3054.4
35°	8077.2	5715.6	3649.5	3119.0	3000.3	2958.7	2987.8	2971.2	2913.0	2898.4
37.5°	8380.9	5418.1	3331.1	2946.2	2848.4	2838.1	2856.8	2863.0	2794.4	2779.8
40°	8584.9	5014.4	3058.6	2800.6	2819.4	2779.8	2717.4	2673.7	2652.8	2646.6
42.5°	8749.2	4594.2	2829.7	2731.9	2825.6	2711.1	2575.9	2505.1	2542.5	2559.2
45°	8938.5	4184.3	2638.3	2646.6	2794.4	2632.1	2478.1	2409.5	2424.0	2428.2
47.5°	9198.7	3684.9	2432.3	2509.3	2690.4	2577.9	2417.7	2320.0	2251.3	2220.1
50°	9558.7	3093.9	2218.0	2355.3	2588.4	2538.5	2324.1	2220.1	2093.2	2064.0
52.5°	9808.3	2542.5	2041.1	2226.4	2496.8	2459.4	2249.2	2113.9	1980.8	1955.9
55°	9673.0	2111.9	1887.1	2082.7	2376.1	2361.6	2186.8	2005.8	1901.8	1880.9
57.5°	8996.9	1839.3	1768.6	1947.5	2228.4	2278.3	2103.6	1914.2	1839.3	1824.7
60°	7706.8	1668.7	1693.7	1855.9	2107.7	2195.2	2020.3	1864.3	1814.3	1804.0
62.5°	5979.9	1554.3	1637.5	1789.3	2014.1	2136.8	1974.6	1858.1	1839.3	1826.8
65°	4284.1	1462.7	1577.2	1722.8	1928.8	2082.7	1957.9	1849.7	1853.9	1843.5
67.5°	2910.9	1381.6	1504.4	1647.9	1845.6	2034.9	1935.0	1820.5	1872.6	1860.1
70°	2037.0	1302.5	1419.0	1552.2	1741.6	1968.4	1893.4	1776.9	1772.8	1722.8
72.5°	1589.7	1198.5	1302.5	1419.0	1608.4	1874.7	1810.2	1679.1	1610.4	1558.5
73°	1516.8	1173.5	1273.4	1389.9	1579.2	1851.8	1787.3	1652.1	1575.0	1527.2
75°	1254.6	1065.3	1156.9	1260.9	1454.4	1743.6	1675.0	1529.3	1431.5	1402.4
77.5°	986.2	911.3	998.7	1092.3	1281.7	1585.5	1508.4	1369.1	1315.0	1290.0
80°	730.3	755.2	832.3	915.5	1111.1	1416.9	1348.2	1208.8	1450.2	1389.9
82.5°	513.9	572.1	642.9	717.8	932.1	1252.6	1169.3	1025.8	1061.1	882.2
85°	303.8	374.5	441.1	505.6	672.1	1038.3	965.5	817.7	669.9	638.7
87.5°	176.9	208.1	226.8	293.4	461.9	782.4	680.4	605.5	347.5	235.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)