

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: P192327

Luminaire Tested: **GLEON-AF-09-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192327
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-09-LED-E1-T4FT-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 43252 lumens
Efficiency: N/A
Efficacy: 115.6 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): 374
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

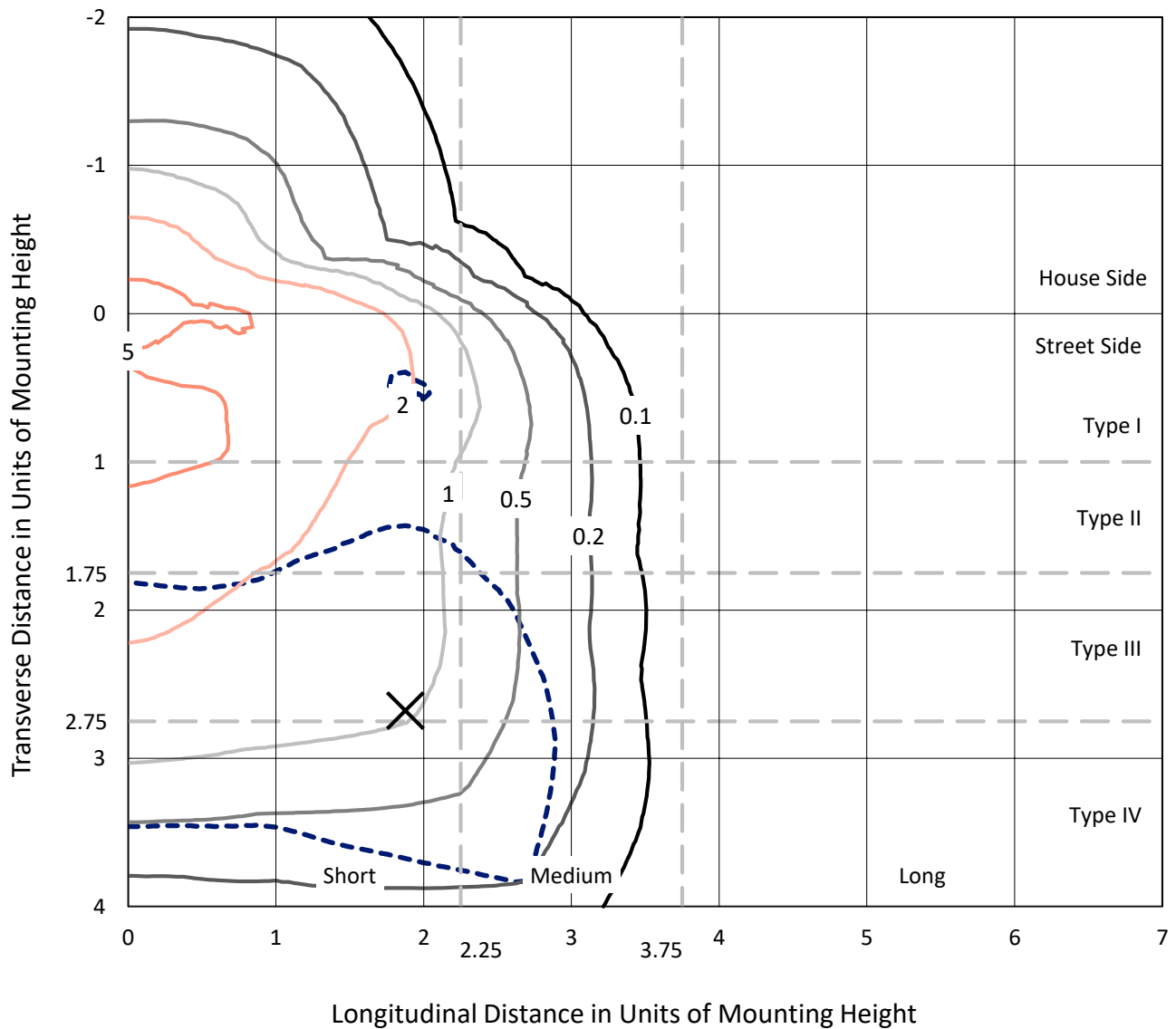


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

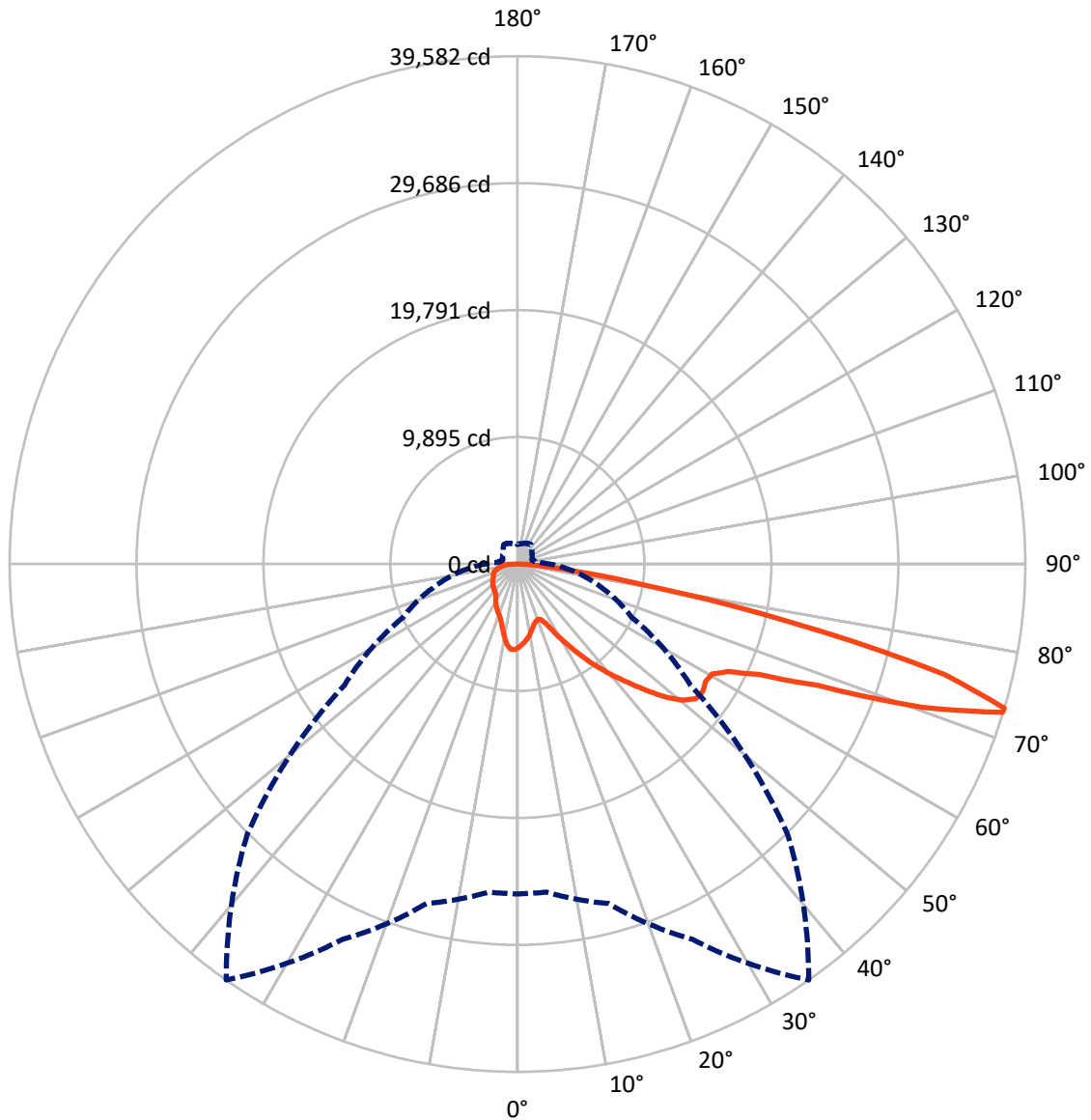


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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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	8249.4	0.0	8249.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35002.6	0.0	35002.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	43252.0	0.0	43252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.0	1.4
10°-20°	1475.0	3.4
20°-30°	2384.5	5.5
30°-40°	3998.5	9.2
40°-50°	6163.6	14.3
50°-60°	8269.1	19.1
60°-70°	11016.1	25.5
70°-80°	8401.9	19.4
80°-90°	952.3	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°	43252.0	100.0
0°-180°	43252.0	100.0

Coefficient of Utilization



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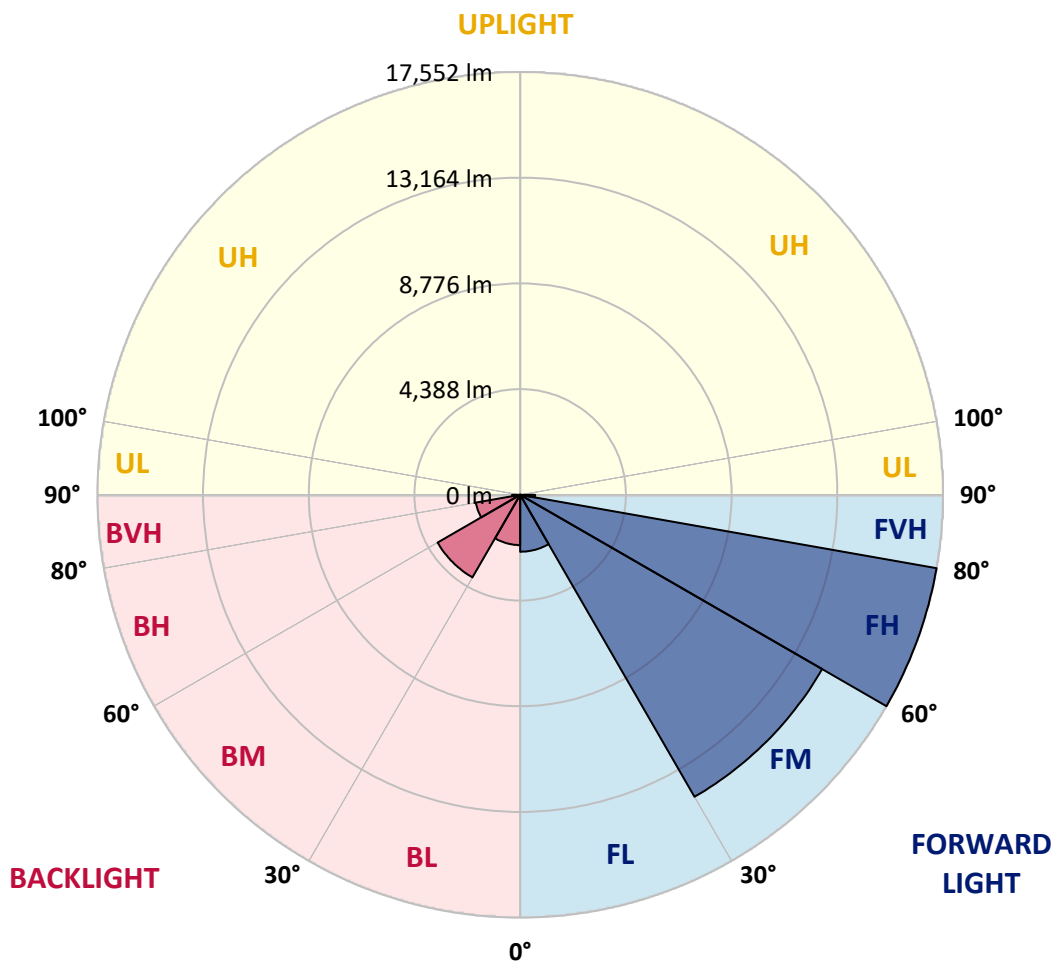
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.0	5.5			
FM	(30°-60°)	14472.4	33.5			
FH	(60°-80°)	17551.6	40.6			G5
FVH	(80°-90°)	615.6	1.4			G4/750
BL	(0°-30°)	2087.5	4.8	B3/2500		
BM	(30°-60°)	3958.8	9.2	B3/5000		
BH	(60°-80°)	1866.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	336.7	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°	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1
2.5°	6270.5	6283.0	6268.4	6287.1	6318.3	6351.5	6374.4	6407.6	6445.0	6496.9	6509.4
5°	5975.6	5994.3	5994.3	6027.5	6087.7	6141.7	6191.6	6245.6	6324.5	6413.8	6449.1
7.5°	5651.6	5662.0	5680.6	5730.5	5817.7	5894.6	5965.2	6052.4	6160.4	6278.8	6341.1
10°	5261.1	5275.6	5304.7	5375.3	5493.7	5599.6	5701.4	5821.9	5959.0	6106.4	6185.4
12.5°	4984.8	4980.7	4993.2	5045.1	5148.9	5277.7	5425.2	5578.9	5747.1	5919.5	6015.0
15°	4891.4	4868.5	4820.8	4808.3	4864.4	4993.2	5163.5	5352.5	5553.9	5761.7	5880.0
17.5°	4949.5	4910.1	4779.2	4683.7	4675.4	4773.0	4953.7	5165.5	5398.2	5651.6	5799.0
20°	5315.1	5221.6	4899.7	4677.4	4600.6	4648.4	4806.2	5030.5	5304.7	5641.2	5830.2
22.5°	6189.5	6052.4	5369.1	4955.8	4696.1	4638.0	4756.4	4995.2	5315.1	5770.0	6010.9
25°	7462.7	7267.5	6175.0	5649.5	5113.6	4804.1	4831.1	5076.2	5462.6	6069.0	6359.8
27.5°	8468.0	8341.3	7228.0	6627.8	5873.8	5252.8	5074.2	5279.8	5763.7	6559.2	6856.2
30°	9066.2	8989.3	8353.8	7736.9	6843.8	5967.3	5539.4	5662.0	6235.2	7238.4	7483.5
32.5°	9759.9	9714.2	9402.7	8835.6	7890.6	6906.1	6276.8	6233.1	6866.6	8054.7	8166.8
35°	10478.6	10464.0	10281.2	9874.1	9014.3	8144.0	7255.0	6960.1	7554.1	8902.1	8831.5
37.5°	11147.4	11122.4	11016.5	10779.7	10189.9	9473.3	8252.0	7705.7	8295.6	9712.1	9398.5
40°	12379.0	12183.8	11820.3	11641.7	11377.9	10592.8	9043.3	8401.5	9064.1	10484.8	9888.7
42.5°	13880.7	13562.9	12885.8	12640.7	12603.4	11475.5	9583.4	9076.6	9838.8	11251.2	10370.6
45°	15062.5	14763.5	14179.8	13870.3	14007.4	12275.2	10125.5	9797.3	10636.4	12055.0	10867.0
47.5°	16323.3	15853.9	15081.2	15174.7	15473.8	13031.2	10678.0	10572.0	11510.8	12954.4	11483.8
50°	16369.0	16009.7	15671.1	16229.8	16695.1	13727.0	11369.6	11384.1	12580.5	14086.3	12304.3
52.5°	15419.8	15342.9	15880.9	16759.5	17430.3	14277.4	12156.8	12223.3	13949.3	15386.6	13205.7
55°	15087.5	15000.2	15621.3	16574.6	17530.0	14732.3	13010.4	13130.9	15604.6	16757.4	14084.3
57.5°	15897.5	15704.3	15745.9	16487.4	17287.0	15230.8	13941.0	14184.0	17403.3	17955.8	14649.2
60°	18161.5	17748.1	16963.0	16944.3	17417.9	15978.5	15016.8	15313.9	19272.7	18529.1	14429.1
62.5°	21337.2	20923.9	19453.4	18495.9	18425.2	17212.3	16337.8	16416.8	20352.7	17752.3	13085.2
65°	24774.7	24405.0	22762.1	21409.9	20757.7	19256.0	17872.7	16909.0	19999.6	15615.0	10734.0
67.5°	28947.4	28550.7	27138.3	25890.0	25262.8	22554.3	18950.7	16437.5	17758.5	12096.6	7716.1
70°	31865.6	31460.6	30904.0	31915.5	33450.4	27312.8	19089.9	14520.4	13263.8	8040.1	4644.2
72.5°	28058.4	27869.4	28885.1	33145.1	39538.1	30199.9	17255.9	10572.0	7703.7	4268.3	2687.7
73°	25707.3	25665.7	27398.0	32283.1	39581.7	29755.4	16452.1	9826.4	6607.0	3776.0	2457.1
75°	11608.5	11942.9	15739.6	24658.4	34389.2	24519.2	11579.4	5637.0	3732.4	2608.7	1854.8
77.5°	2789.4	2905.7	4924.6	11710.2	21717.3	14611.8	5246.5	2787.4	2386.5	1842.3	1354.2
80°	1188.1	1227.5	1896.3	4326.4	10225.2	5884.2	2417.7	1867.2	1651.2	1285.7	949.2
82.5°	660.5	702.0	1075.9	1962.8	4127.0	2006.4	1474.7	1300.2	1086.3	774.7	616.9
85°	373.9	396.7	629.3	1096.7	1748.8	805.9	882.7	864.0	612.7	398.8	303.2
87.5°	176.5	191.1	303.2	508.9	685.4	315.7	448.6	494.3	384.2	243.0	157.9
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°	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1	6528.1
2.5°	6523.9	6561.3	6604.9	6627.8	6648.5	6673.5	6698.4	6698.4	6702.5	6704.6
5°	6478.2	6555.1	6623.6	6652.7	6658.9	6658.9	6652.7	6619.5	6590.4	6602.8
7.5°	6382.7	6494.8	6553.0	6542.6	6463.7	6372.3	6295.4	6202.0	6154.2	6145.9
10°	6245.6	6374.4	6384.8	6280.9	6085.7	5890.4	5728.4	5570.6	5495.8	5477.1
12.5°	6094.0	6212.4	6145.9	5932.0	5618.3	5333.8	5128.2	4968.2	4897.6	4878.9
15°	5971.4	6052.4	5884.2	5547.7	5153.1	4851.9	4681.6	4563.2	4513.4	4498.8
17.5°	5907.0	5923.7	5616.3	5161.4	4741.8	4490.5	4384.6	4328.5	4309.8	4299.4
20°	5938.2	5821.9	5360.8	4802.1	4405.4	4228.8	4203.9	4189.3	4185.2	4179.0
22.5°	6094.0	5790.7	5126.1	4461.4	4110.4	4033.6	4054.3	4052.3	4048.1	4044.0
25°	6372.3	5817.7	4897.6	4137.4	3863.3	3846.6	3884.0	3884.0	3867.4	3867.4
27.5°	6739.9	5873.8	4642.1	3830.0	3638.9	3641.0	3670.1	3661.8	3643.1	3630.6
30°	7188.6	5909.1	4343.0	3553.8	3429.2	3420.9	3429.2	3393.8	3337.8	3333.6
32.5°	7647.6	5865.5	3996.2	3308.7	3206.9	3188.2	3182.0	3132.1	3067.8	3049.1
35°	8063.0	5705.6	3643.1	3113.5	2995.1	2953.5	2982.6	2966.0	2907.8	2893.3
37.5°	8366.2	5408.6	3325.3	2941.1	2843.4	2833.1	2851.7	2858.0	2789.4	2774.9
40°	8569.8	5005.6	3053.2	2795.7	2814.4	2774.9	2712.6	2669.0	2648.2	2642.0
42.5°	8733.9	4586.1	2824.7	2727.1	2820.6	2706.4	2571.3	2500.7	2538.1	2554.7
45°	8922.9	4176.9	2633.7	2642.0	2789.4	2627.4	2473.7	2405.2	2419.7	2423.9
47.5°	9182.5	3678.4	2428.0	2504.9	2685.6	2573.4	2413.5	2315.9	2247.3	2216.2
50°	9541.8	3088.5	2214.1	2351.2	2583.8	2534.0	2320.0	2216.2	2089.5	2060.4
52.5°	9791.1	2538.1	2037.6	2222.4	2492.4	2455.0	2245.3	2110.3	1977.3	1952.4
55°	9656.1	2108.2	1883.9	2079.1	2372.0	2357.4	2182.9	2002.2	1898.4	1877.6
57.5°	8981.0	1836.1	1765.5	1944.1	2224.5	2274.3	2099.9	1910.9	1836.1	1821.5
60°	7693.3	1665.8	1690.7	1852.7	2104.0	2191.3	2016.8	1861.0	1811.2	1800.8
62.5°	5969.4	1551.5	1634.6	1786.2	2010.6	2133.1	1971.1	1854.8	1836.1	1823.6
65°	4276.6	1460.1	1574.4	1719.8	1925.4	2079.1	1954.5	1846.5	1850.6	1840.2
67.5°	2905.7	1379.1	1501.7	1645.0	1842.3	2031.3	1931.6	1817.4	1869.3	1856.9
70°	2033.4	1300.2	1416.5	1549.5	1738.5	1964.9	1890.1	1773.8	1769.6	1719.8
72.5°	1586.8	1196.4	1300.2	1416.5	1605.5	1871.4	1807.0	1676.2	1607.6	1555.7
73°	1514.1	1171.4	1271.1	1387.4	1576.5	1848.5	1784.2	1649.2	1572.3	1524.5
75°	1252.4	1063.4	1154.8	1258.7	1451.8	1740.5	1672.0	1526.6	1429.0	1399.9
77.5°	984.5	909.7	997.0	1090.4	1279.4	1582.7	1505.8	1366.7	1312.7	1287.8
80°	729.0	754.0	830.8	913.9	1109.1	1414.4	1345.9	1206.7	1447.7	1387.4
82.5°	513.0	571.2	641.8	716.6	930.5	1250.4	1167.3	1024.0	1059.3	880.7
85°	303.2	373.9	440.3	504.7	670.9	1036.4	963.7	816.3	668.8	637.6
87.5°	176.5	207.7	226.4	292.9	461.1	781.0	679.2	604.4	346.9	234.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)