

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: P194085

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194085
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 37915 lumens
Efficiency: N/A
Efficacy: 84.6 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

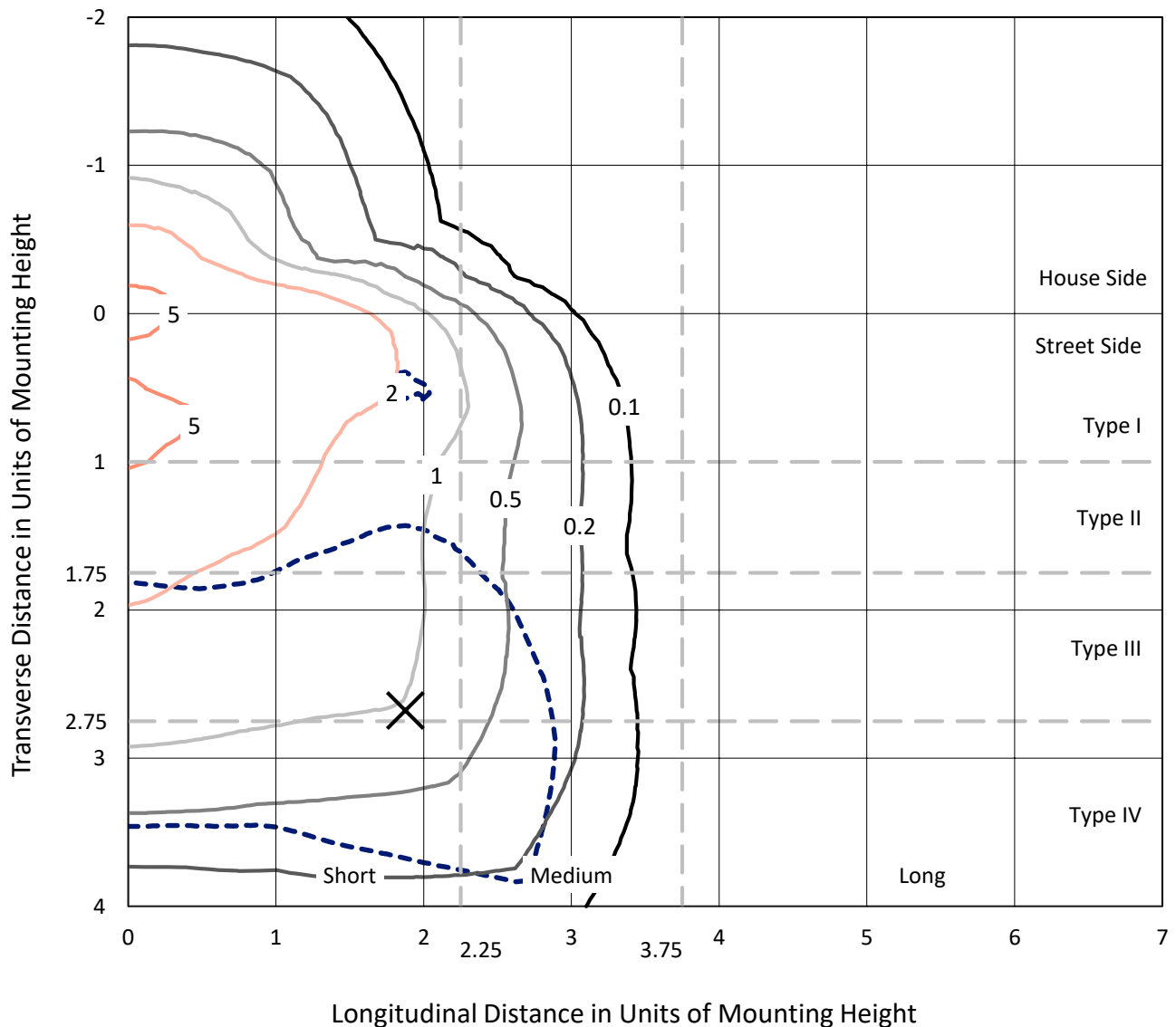


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Iso-Footcandle Lines of Horizontal Illumination

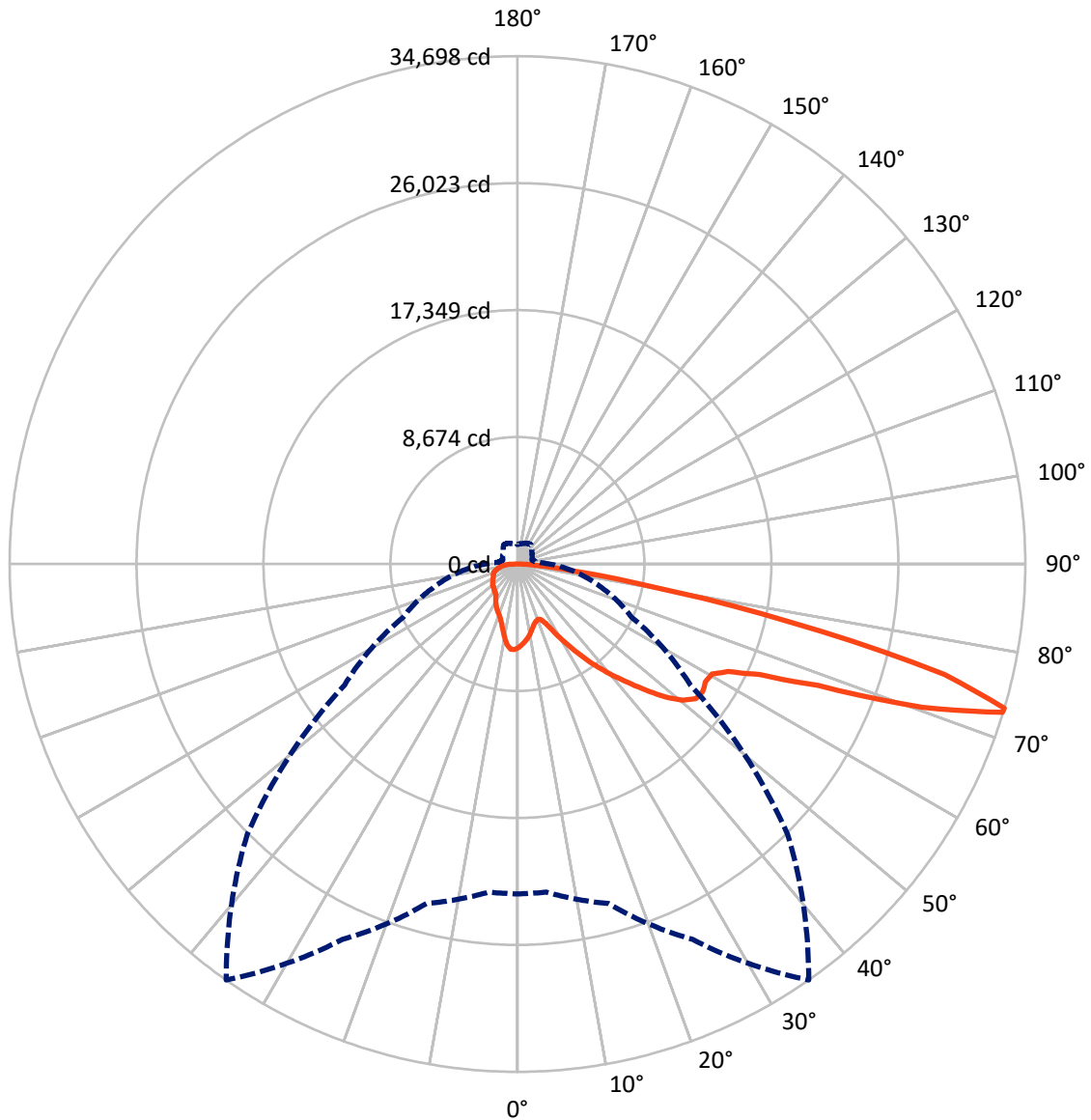
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	7231.4	0.0	7231.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30683.5	0.0	30683.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	37915.0	0.0	37915.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.1	1.4
10°-20°	1293.0	3.4
20°-30°	2090.3	5.5
30°-40°	3505.1	9.2
40°-50°	5403.0	14.3
50°-60°	7248.7	19.1
60°-70°	9656.8	25.5
70°-80°	7365.2	19.4
80°-90°	834.8	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°	37915.0	100.0
0°-180°	37915.0	100.0



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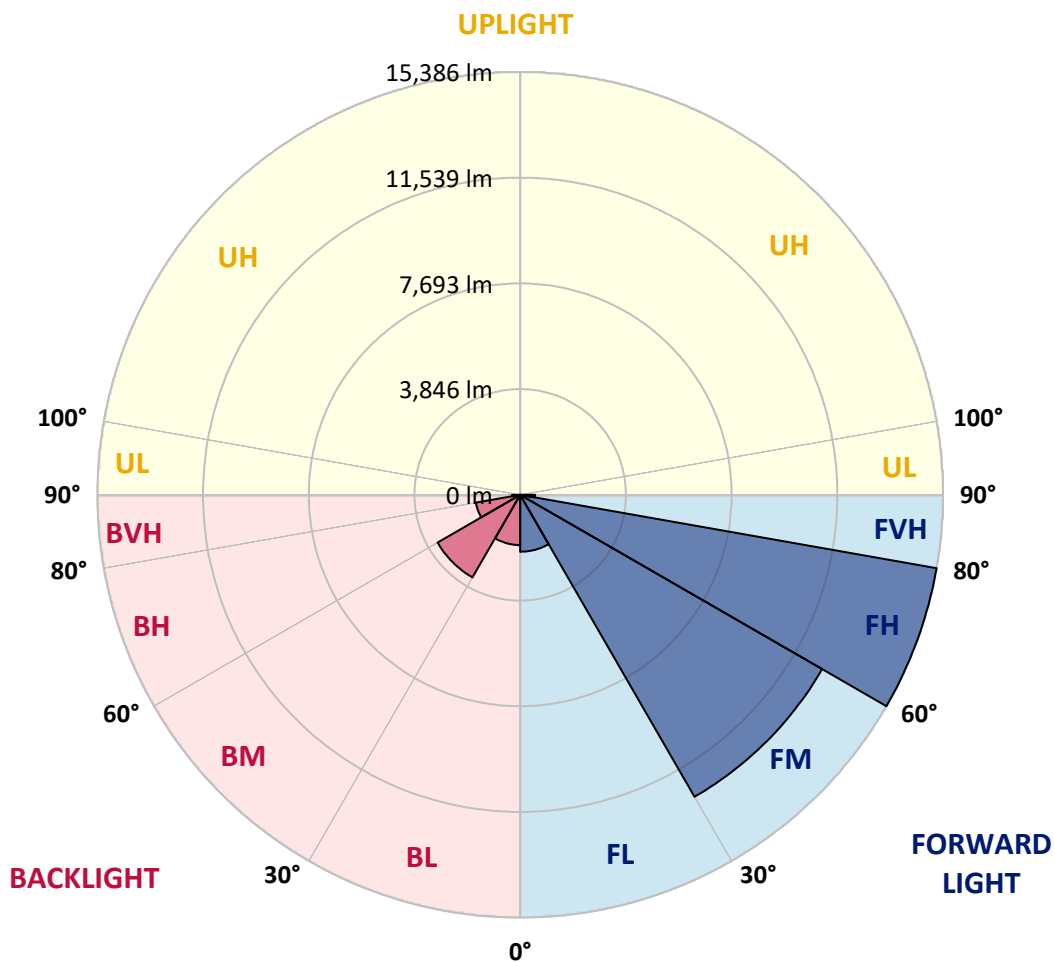
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2071.4	5.5			
FM	(30°-60°)	12686.6	33.5			
FH	(60°-80°)	15385.9	40.6			G5
FVH	(80°-90°)	539.6	1.4			G4/750
BL	(0°-30°)	1829.9	4.8	B3/2500		
BM	(30°-60°)	3470.3	9.2	B3/5000		
BH	(60°-80°)	1636.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	295.2	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°	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6
2.5°	5496.8	5507.7	5495.0	5511.3	5538.7	5567.8	5587.8	5616.9	5649.7	5695.2	5706.2
5°	5238.2	5254.6	5254.6	5283.8	5336.6	5383.9	5427.6	5474.9	5544.1	5622.4	5653.4
7.5°	4954.2	4963.3	4979.7	5023.4	5099.9	5167.2	5229.1	5305.6	5400.3	5504.1	5558.7
10°	4611.9	4624.7	4650.1	4712.0	4815.8	4908.7	4997.9	5103.5	5223.7	5352.9	5422.1
12.5°	4369.7	4366.1	4377.0	4422.6	4513.6	4626.5	4755.7	4890.5	5038.0	5189.1	5272.8
15°	4287.8	4267.8	4225.9	4215.0	4264.1	4377.0	4526.3	4692.0	4868.6	5050.7	5154.5
17.5°	4338.8	4304.2	4189.5	4105.7	4098.5	4184.0	4342.4	4528.2	4732.1	4954.2	5083.5
20°	4659.2	4577.3	4295.1	4100.3	4032.9	4074.8	4213.2	4409.8	4650.1	4945.1	5110.8
22.5°	5425.8	5305.6	4706.6	4344.3	4116.7	4065.7	4169.5	4378.9	4659.2	5058.0	5269.2
25°	6541.9	6370.7	5413.0	4952.4	4482.6	4211.3	4235.0	4449.9	4788.5	5320.2	5575.1
27.5°	7423.1	7312.0	6336.1	5809.9	5149.0	4604.6	4448.0	4628.3	5052.5	5749.9	6010.2
30°	7947.5	7880.1	7323.0	6782.2	5999.3	5231.0	4855.9	4963.3	5465.8	6345.2	6560.1
32.5°	8555.6	8515.5	8242.4	7745.4	6916.9	6053.9	5502.2	5464.0	6019.3	7060.8	7159.1
35°	9185.6	9172.8	9012.6	8655.7	7902.0	7139.1	6359.8	6101.3	6622.0	7803.6	7741.7
37.5°	9771.9	9750.0	9657.1	9449.6	8932.5	8304.3	7233.8	6754.9	7272.0	8513.7	8238.8
40°	10851.5	10680.4	10361.8	10205.2	9974.0	9285.7	7927.5	7364.8	7945.7	9191.0	8668.5
42.5°	12167.9	11889.4	11295.8	11081.0	11048.2	10059.5	8400.8	7956.6	8624.8	9862.9	9090.9
45°	13203.9	12941.7	12430.1	12158.8	12279.0	10760.5	8876.1	8588.4	9324.0	10567.5	9526.1
47.5°	14309.1	13897.6	13220.3	13302.2	13564.4	11423.3	9360.4	9267.5	10090.5	11355.9	10066.8
50°	14349.2	14034.2	13737.4	14227.2	14635.0	12033.2	9966.7	9979.4	11028.2	12348.2	10786.0
52.5°	13517.1	13449.7	13921.3	14691.5	15279.6	12515.7	10656.7	10715.0	12228.0	13488.0	11576.2
55°	13225.8	13149.3	13693.7	14529.4	15367.0	12914.4	11405.0	11510.6	13679.1	14689.6	12346.4
57.5°	13935.9	13766.5	13802.9	14452.9	15153.9	13351.4	12220.7	12433.8	15255.9	15740.2	12841.6
60°	15920.5	15558.1	14869.9	14853.5	15268.6	14006.9	13163.9	13424.2	16894.5	16242.7	12648.6
62.5°	18704.3	18342.0	17052.9	16213.6	16151.7	15088.4	14321.9	14391.0	17841.3	15561.8	11470.6
65°	21717.7	21393.6	19953.4	18768.1	18196.4	16880.0	15667.4	14822.6	17531.8	13688.2	9409.5
67.5°	25375.5	25027.7	23789.6	22695.4	22145.5	19771.3	16612.3	14409.2	15567.2	10603.9	6764.0
70°	27933.6	27578.6	27090.6	27977.3	29322.8	23942.6	16734.3	12728.7	11627.2	7048.0	4071.2
72.5°	24596.2	24430.5	25320.9	29055.2	34659.4	26473.4	15126.6	9267.5	6753.1	3741.6	2356.0
73°	22535.2	22498.7	24017.2	28299.6	34697.6	26083.8	14422.0	8613.9	5791.7	3310.1	2153.9
75°	10176.1	10469.2	13797.5	21615.7	30145.8	21493.7	10150.6	4941.5	3271.9	2286.8	1625.9
77.5°	2445.2	2547.2	4316.9	10265.3	19037.5	12808.8	4599.2	2443.4	2092.0	1615.0	1187.1
80°	1041.5	1076.1	1662.3	3792.6	8963.4	5158.1	2119.3	1636.8	1447.5	1127.0	832.1
82.5°	579.0	615.4	943.1	1720.6	3617.8	1758.8	1292.7	1139.8	952.2	679.1	540.8
85°	327.7	347.8	551.7	961.3	1533.1	706.4	773.8	757.4	537.1	349.6	265.8
87.5°	154.8	167.5	265.8	446.1	600.8	276.8	393.3	433.3	336.8	213.0	138.4
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°	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6	5722.6
2.5°	5718.9	5751.7	5789.9	5809.9	5828.2	5850.0	5871.9	5871.9	5875.5	5877.3
5°	5678.9	5746.2	5806.3	5831.8	5837.3	5837.3	5831.8	5802.7	5777.2	5788.1
7.5°	5595.1	5693.4	5744.4	5735.3	5666.1	5586.0	5518.6	5436.7	5394.8	5387.5
10°	5474.9	5587.8	5596.9	5505.9	5334.7	5163.6	5021.6	4883.2	4817.6	4801.3
12.5°	5342.0	5445.8	5387.5	5200.0	4925.1	4675.6	4495.4	4355.2	4293.3	4276.9
15°	5234.6	5305.6	5158.1	4863.2	4517.2	4253.2	4103.9	4000.1	3956.4	3943.7
17.5°	5178.2	5192.7	4923.3	4524.5	4156.7	3936.4	3843.6	3794.4	3778.0	3768.9
20°	5205.5	5103.5	4699.3	4209.5	3861.8	3707.0	3685.2	3672.4	3668.8	3663.3
22.5°	5342.0	5076.2	4493.6	3910.9	3603.2	3535.9	3554.1	3552.2	3548.6	3545.0
25°	5586.0	5099.9	4293.3	3626.9	3386.6	3372.0	3404.8	3404.8	3390.2	3390.2
27.5°	5908.3	5149.0	4069.3	3357.4	3189.9	3191.7	3217.2	3209.9	3193.6	3182.6
30°	6301.5	5180.0	3807.1	3115.3	3006.0	2998.7	3006.0	2975.1	2925.9	2922.3
32.5°	6703.9	5141.7	3503.1	2900.4	2811.2	2794.8	2789.4	2745.7	2689.2	2672.8
35°	7068.1	5001.5	3193.6	2729.3	2625.5	2589.1	2614.6	2600.0	2549.0	2536.3
37.5°	7333.9	4741.2	2915.0	2578.2	2492.6	2483.5	2499.9	2505.3	2445.2	2432.5
40°	7512.3	4388.0	2676.5	2450.7	2467.1	2432.5	2377.9	2339.6	2321.4	2316.0
42.5°	7656.2	4020.2	2476.2	2390.6	2472.6	2372.4	2254.1	2192.2	2224.9	2239.5
45°	7821.9	3661.5	2308.7	2316.0	2445.2	2303.2	2168.5	2108.4	2121.1	2124.8
47.5°	8049.4	3224.5	2128.4	2195.8	2354.2	2255.9	2115.7	2030.1	1970.0	1942.7
50°	8364.4	2707.4	1940.9	2061.1	2265.0	2221.3	2033.8	1942.7	1831.7	1806.2
52.5°	8582.9	2224.9	1786.1	1948.2	2184.9	2152.1	1968.2	1849.9	1733.3	1711.5
55°	8464.6	1848.0	1651.4	1822.5	2079.3	2066.5	1913.6	1755.2	1664.1	1645.9
57.5°	7872.8	1609.5	1547.6	1704.2	1950.0	1993.7	1840.8	1675.1	1609.5	1596.8
60°	6744.0	1460.2	1482.1	1624.1	1844.4	1920.9	1767.9	1631.4	1587.7	1578.6
62.5°	5232.8	1360.1	1432.9	1565.8	1762.5	1869.9	1727.9	1625.9	1609.5	1598.6
65°	3748.9	1280.0	1380.1	1507.6	1687.8	1822.5	1713.3	1618.6	1622.3	1613.2
67.5°	2547.2	1209.0	1316.4	1442.0	1615.0	1780.7	1693.3	1593.1	1638.7	1627.7
70°	1782.5	1139.8	1241.7	1358.3	1524.0	1722.4	1656.9	1554.9	1551.3	1507.6
72.5°	1391.0	1048.7	1139.8	1241.7	1407.4	1640.5	1584.0	1469.3	1409.2	1363.7
73°	1327.3	1026.9	1114.3	1216.2	1381.9	1620.4	1564.0	1445.7	1378.3	1336.4
75°	1097.9	932.2	1012.3	1103.4	1272.7	1525.8	1465.7	1338.2	1252.7	1227.2
77.5°	863.0	797.5	873.9	955.9	1121.6	1387.4	1320.0	1198.0	1150.7	1128.9
80°	639.1	660.9	728.3	801.1	972.3	1239.9	1179.8	1057.8	1269.0	1216.2
82.5°	449.7	500.7	562.6	628.2	815.7	1096.1	1023.2	897.6	928.6	772.0
85°	265.8	327.7	386.0	442.4	588.1	908.5	844.8	715.5	586.3	559.0
87.5°	154.8	182.1	198.5	256.7	404.2	684.6	595.4	529.8	304.1	205.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)