

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: P194076

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194076
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 39161 lumens
Efficiency: N/A
Efficacy: 88.0 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

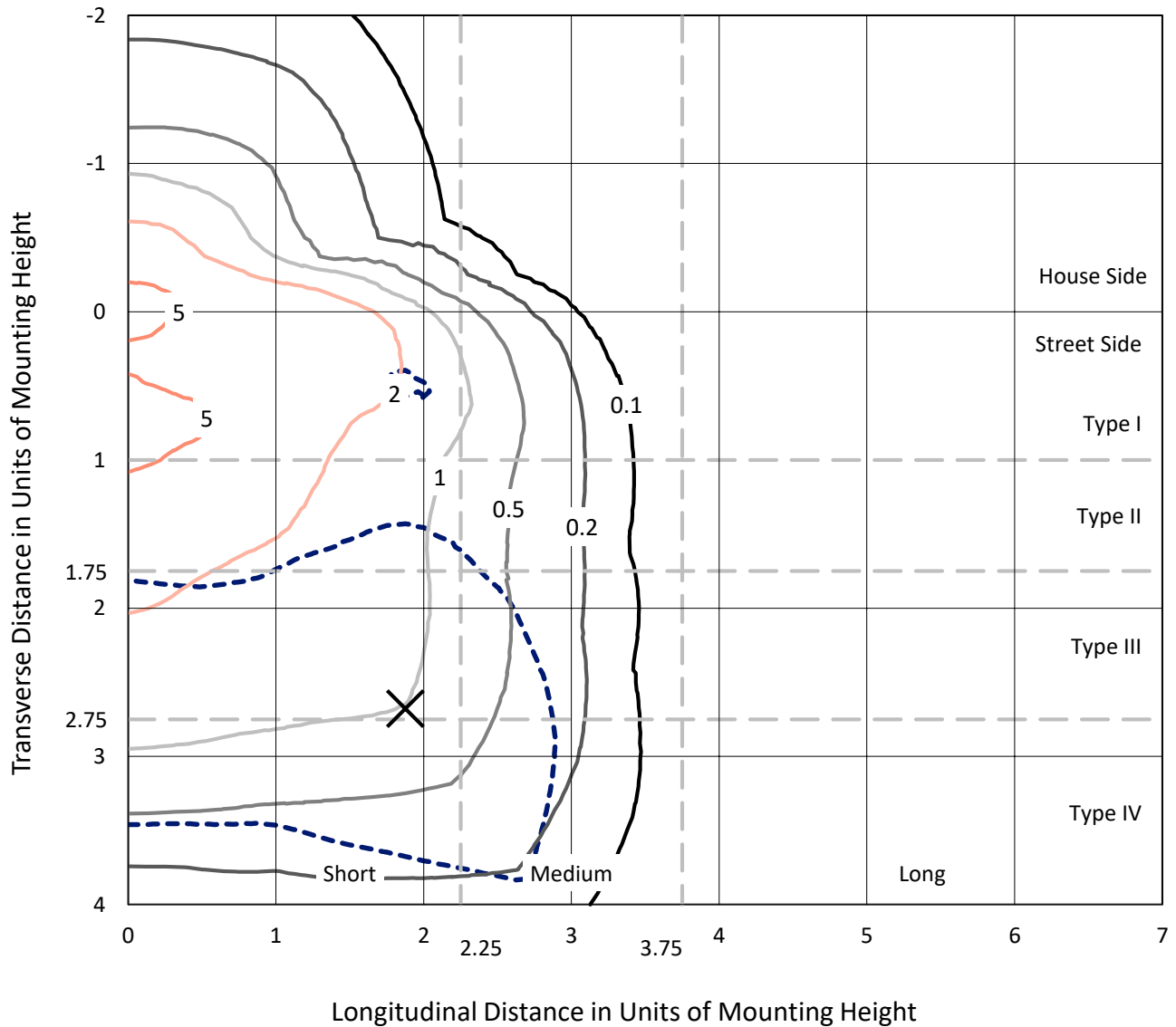
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

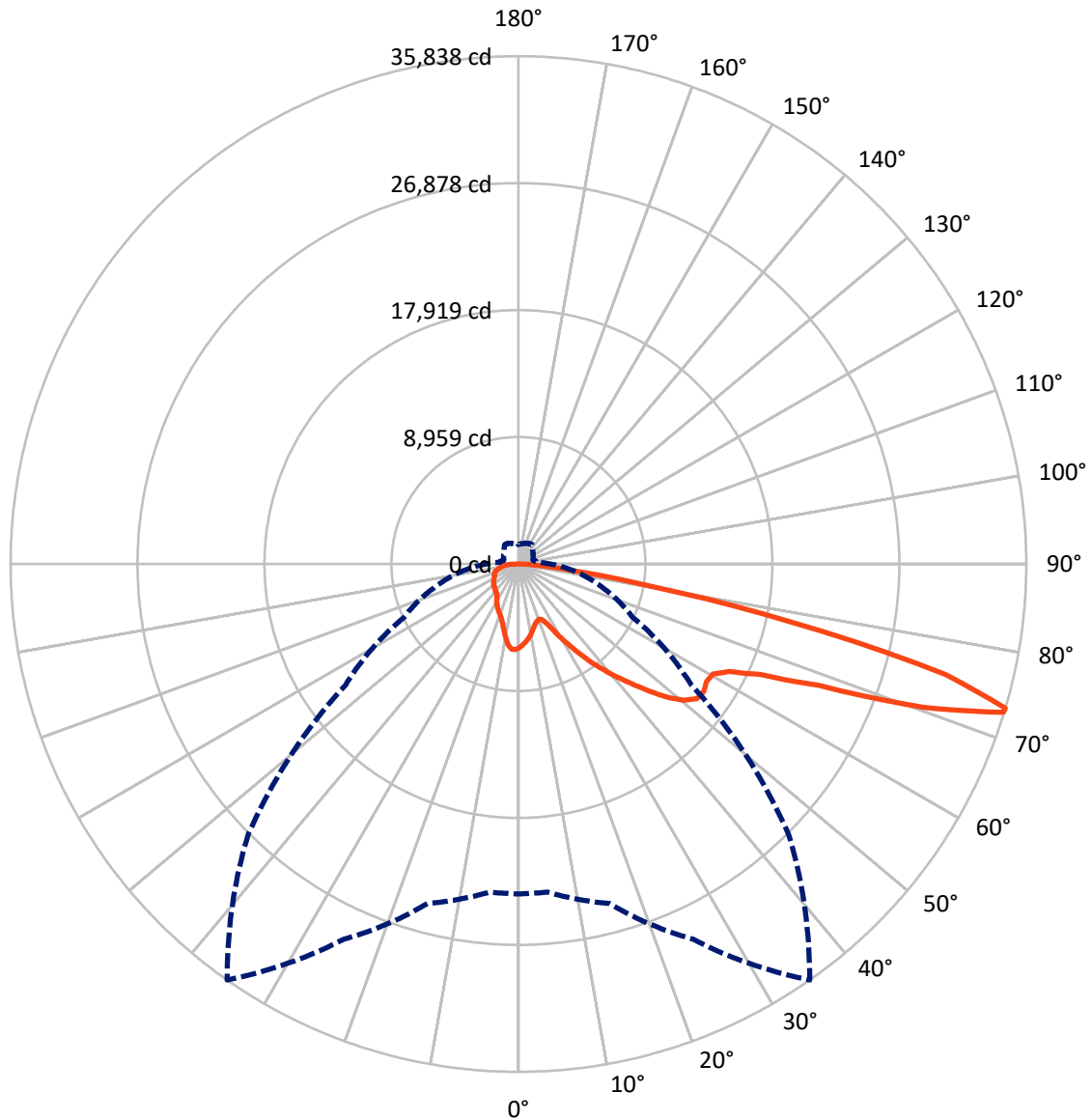
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	7469.1	0.0	7469.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	31691.9	0.0	31691.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	39161.0	0.0	39161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	1.4
10°-20°	1335.5	3.4
20°-30°	2159.0	5.5
30°-40°	3620.3	9.2
40°-50°	5580.6	14.3
50°-60°	7486.9	19.1
60°-70°	9974.1	25.5
70°-80°	7607.2	19.4
80°-90°	862.2	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°	39161.0	100.0
0°-180°	39161.0	100.0



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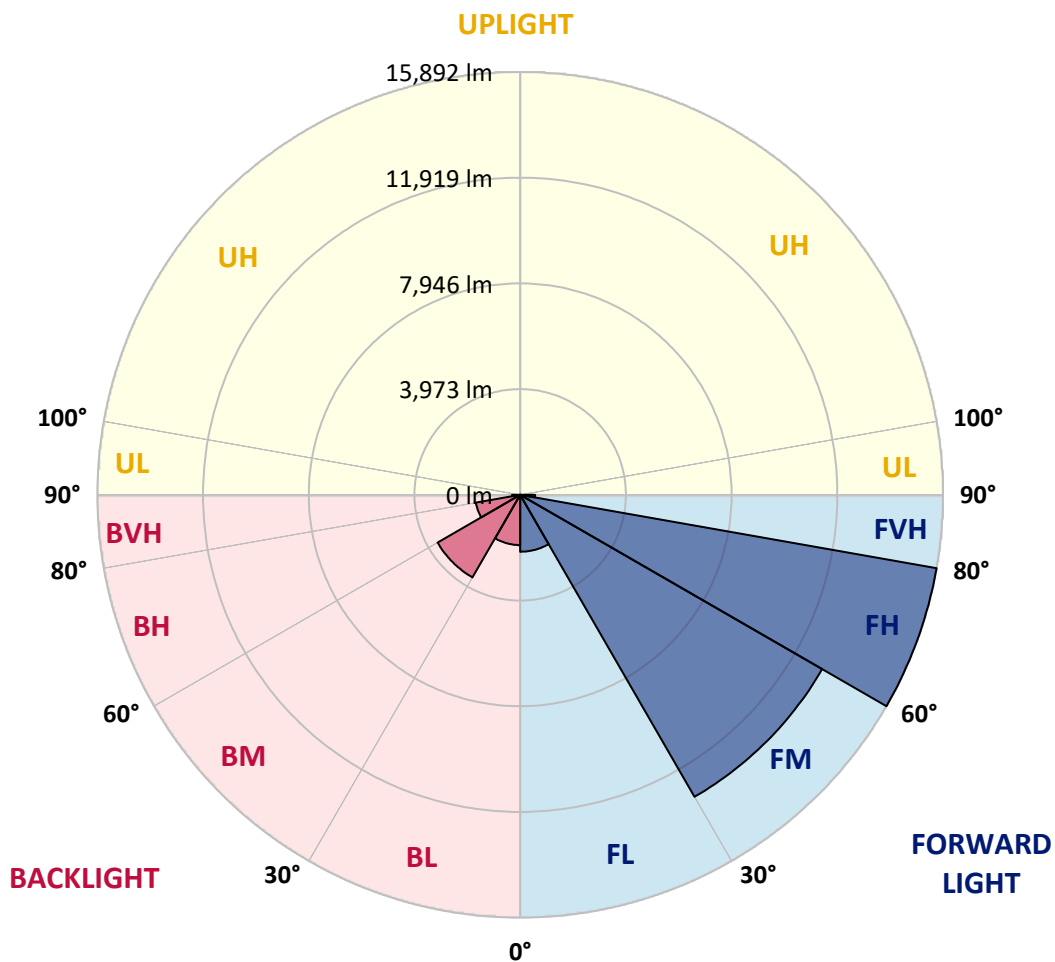
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2139.5	5.5			
FM	(30°-60°)	13103.5	33.5			
FH	(60°-80°)	15891.5	40.6			G5
FVH	(80°-90°)	557.4	1.4			G4/750
BL	(0°-30°)	1890.0	4.8	B3/2500		
BM	(30°-60°)	3584.3	9.2	B3/5000		
BH	(60°-80°)	1689.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	304.9	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°	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6
2.5°	5677.4	5688.7	5675.5	5692.5	5720.7	5750.8	5771.4	5801.5	5835.4	5882.4	5893.7
5°	5410.4	5427.3	5427.3	5457.4	5511.9	5560.8	5606.0	5654.9	5726.3	5807.2	5839.2
7.5°	5117.0	5126.4	5143.3	5188.5	5267.5	5337.0	5401.0	5480.0	5577.8	5684.9	5741.4
10°	4763.5	4776.6	4803.0	4866.9	4974.1	5070.0	5162.1	5271.2	5395.3	5528.9	5600.3
12.5°	4513.4	4509.6	4520.9	4567.9	4661.9	4778.5	4912.0	5051.2	5203.5	5359.6	5446.1
15°	4428.7	4408.0	4364.8	4353.5	4404.3	4520.9	4675.1	4846.2	5028.6	5216.7	5323.9
17.5°	4481.4	4445.7	4327.2	4240.7	4233.1	4321.5	4485.1	4677.0	4887.6	5117.0	5250.5
20°	4812.4	4727.7	4436.2	4235.0	4165.4	4208.7	4351.6	4554.7	4803.0	5107.6	5278.7
22.5°	5604.1	5480.0	4861.3	4487.0	4252.0	4199.3	4306.5	4522.8	4812.4	5224.2	5442.4
25°	6756.9	6580.1	5590.9	5115.1	4629.9	4349.7	4374.2	4596.1	4945.9	5495.0	5758.3
27.5°	7667.1	7552.3	6544.4	6000.9	5318.2	4755.9	4594.2	4780.4	5218.6	5938.8	6207.7
30°	8208.7	8139.1	7563.6	7005.1	6196.5	5402.9	5015.5	5126.4	5645.5	6553.8	6775.7
32.5°	8836.8	8795.4	8513.3	7999.9	7144.3	6252.9	5683.1	5643.6	6217.1	7292.8	7394.4
35°	9487.4	9474.3	9308.8	8940.2	8161.6	7373.7	6568.8	6301.8	6839.6	8060.1	7996.2
37.5°	10093.0	10070.4	9974.5	9760.1	9226.0	8577.3	7471.5	6976.9	7511.0	8793.5	8509.6
40°	11208.2	11031.4	10702.3	10540.6	10301.7	9590.9	8188.0	7606.9	8206.8	9493.1	8953.4
42.5°	12567.8	12280.1	11667.0	11445.1	11411.3	10390.1	8676.9	8218.1	8908.2	10187.0	9389.7
45°	13637.8	13367.0	12838.6	12558.4	12682.5	11114.1	9167.7	8870.6	9630.4	10914.8	9839.1
47.5°	14779.3	14354.3	13654.8	13739.4	14010.2	11798.7	9668.0	9572.1	10422.1	11729.1	10397.6
50°	14820.7	14495.4	14188.9	14694.7	15116.0	12428.6	10294.2	10307.4	11390.6	12754.0	11140.5
52.5°	13961.3	13891.7	14378.8	15174.3	15781.7	12927.0	11006.9	11067.1	12629.9	13931.2	11956.6
55°	13660.4	13581.4	14143.7	15006.9	15872.0	13338.8	11779.9	11888.9	14128.7	15172.4	12752.1
57.5°	14393.8	14218.9	14256.6	14927.9	15651.9	13790.2	12622.3	12842.4	15757.2	16257.5	13263.6
60°	16443.6	16069.4	15358.6	15341.6	15770.4	14467.2	13596.5	13865.4	17449.7	16776.5	13064.3
62.5°	19319.0	18944.8	17613.4	16746.4	16682.5	15584.2	14792.5	14864.0	18427.6	16073.2	11847.6
65°	22431.4	22096.6	20609.1	19384.8	18794.4	17434.7	16182.2	15309.7	18107.9	14138.1	9718.8
67.5°	26209.4	25850.2	24571.4	23441.2	22873.3	20421.0	17158.3	14882.8	16078.8	10952.4	6986.3
70°	28851.6	28484.9	27980.9	28896.7	30286.5	24729.4	17284.3	13147.0	12009.3	7279.7	4204.9
72.5°	25404.5	25233.4	26153.0	30010.0	35798.4	27343.4	15623.7	9572.1	6975.0	3864.6	2433.4
73°	23275.7	23238.1	24806.5	29229.6	35837.9	26941.0	14895.9	8896.9	5982.1	3418.9	2224.7
75°	10510.5	10813.2	14250.9	22326.1	31136.5	22200.1	10484.1	5103.8	3379.4	2362.0	1679.3
77.5°	2525.6	2630.9	4458.8	10602.6	19663.2	13229.8	4750.3	2523.7	2160.8	1668.1	1226.1
80°	1075.7	1111.4	1717.0	3917.2	9258.0	5327.6	2189.0	1690.6	1495.0	1164.1	859.4
82.5°	598.0	635.6	974.1	1777.1	3736.7	1816.6	1335.2	1177.2	983.5	701.5	558.5
85°	338.5	359.2	569.8	992.9	1583.4	729.7	799.2	782.3	554.8	361.1	274.6
87.5°	159.8	173.0	274.6	460.7	620.6	285.8	406.2	447.6	347.9	220.0	142.9
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°	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6	5910.6
2.5°	5906.9	5940.7	5980.2	6000.9	6019.7	6042.3	6064.8	6064.8	6068.6	6070.5
5°	5865.5	5935.1	5997.1	6023.4	6029.1	6029.1	6023.4	5993.4	5967.0	5978.3
7.5°	5779.0	5880.5	5933.2	5923.8	5852.3	5769.6	5700.0	5615.4	5572.1	5564.6
10°	5654.9	5771.4	5780.9	5686.8	5510.1	5333.3	5186.6	5043.7	4976.0	4959.0
12.5°	5517.6	5624.8	5564.6	5370.9	5086.9	4829.3	4643.1	4498.3	4434.4	4417.4
15°	5406.6	5480.0	5327.6	5023.0	4665.7	4393.0	4238.8	4131.6	4086.5	4073.3
17.5°	5348.3	5363.4	5085.0	4673.2	4293.3	4065.8	3969.9	3919.1	3902.2	3892.8
20°	5376.5	5271.2	4853.7	4347.9	3988.7	3828.8	3806.3	3793.1	3789.3	3783.7
22.5°	5517.6	5243.0	4641.2	4039.5	3721.6	3652.1	3670.9	3669.0	3665.2	3661.5
25°	5769.6	5267.5	4434.4	3746.1	3497.8	3482.8	3516.7	3516.7	3501.6	3501.6
27.5°	6102.4	5318.2	4203.1	3467.8	3294.7	3296.6	3323.0	3315.4	3298.5	3287.2
30°	6508.6	5350.2	3932.3	3217.6	3104.8	3097.3	3104.8	3072.8	3022.1	3018.3
32.5°	6924.2	5310.7	3618.2	2995.7	2903.6	2886.7	2881.0	2835.9	2777.6	2760.7
35°	7300.3	5165.9	3298.5	2819.0	2711.8	2674.2	2700.5	2685.4	2632.8	2619.6
37.5°	7574.9	4897.0	3010.8	2662.9	2574.5	2565.1	2582.0	2587.7	2525.6	2512.4
40°	7759.2	4532.2	2764.4	2531.2	2548.2	2512.4	2456.0	2416.5	2397.7	2392.1
42.5°	7907.8	4152.3	2557.6	2469.2	2553.8	2450.4	2328.1	2264.2	2298.0	2313.1
45°	8078.9	3781.8	2384.6	2392.1	2525.6	2378.9	2239.8	2177.7	2190.9	2194.6
47.5°	8314.0	3330.5	2198.4	2268.0	2431.6	2330.0	2185.2	2096.8	2034.8	2006.6
50°	8639.3	2796.4	2004.7	2128.8	2339.4	2294.3	2100.6	2006.6	1891.8	1865.5
52.5°	8865.0	2298.0	1844.8	2012.2	2256.7	2222.8	2032.9	1910.7	1790.3	1767.7
55°	8742.7	1908.8	1705.7	1882.4	2147.6	2134.4	1976.5	1812.9	1718.8	1700.0
57.5°	8131.6	1662.4	1598.5	1760.2	2014.1	2059.2	1901.2	1730.1	1662.4	1649.3
60°	6965.6	1508.2	1530.8	1677.5	1905.0	1984.0	1826.0	1685.0	1639.9	1630.4
62.5°	5404.7	1404.8	1480.0	1617.3	1820.4	1931.3	1784.7	1679.3	1662.4	1651.1
65°	3872.1	1322.0	1425.5	1557.1	1743.3	1882.4	1769.6	1671.8	1675.6	1666.2
67.5°	2630.9	1248.7	1359.6	1489.4	1668.1	1839.2	1748.9	1645.5	1692.5	1681.2
70°	1841.1	1177.2	1282.5	1402.9	1574.0	1779.0	1711.3	1606.0	1602.2	1557.1
72.5°	1436.8	1083.2	1177.2	1282.5	1453.7	1694.4	1636.1	1517.6	1455.6	1408.5
73°	1370.9	1060.6	1150.9	1256.2	1427.3	1673.7	1615.4	1493.2	1423.6	1380.3
75°	1134.0	962.8	1045.6	1139.6	1314.5	1575.9	1513.9	1382.2	1293.8	1267.5
77.5°	891.4	823.7	902.7	987.3	1158.4	1433.0	1363.4	1237.4	1188.5	1165.9
80°	660.1	682.6	752.2	827.4	1004.2	1280.7	1218.6	1092.6	1310.8	1256.2
82.5°	464.5	517.2	581.1	648.8	842.5	1132.1	1056.9	927.1	959.1	797.4
85°	274.6	338.5	398.7	457.0	607.4	938.4	872.6	739.1	605.5	577.3
87.5°	159.8	188.1	205.0	265.2	417.5	707.1	614.9	547.2	314.1	212.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)