

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: P194068

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194068
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 39077 lumens
Efficiency: N/A
Efficacy: 93.3 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

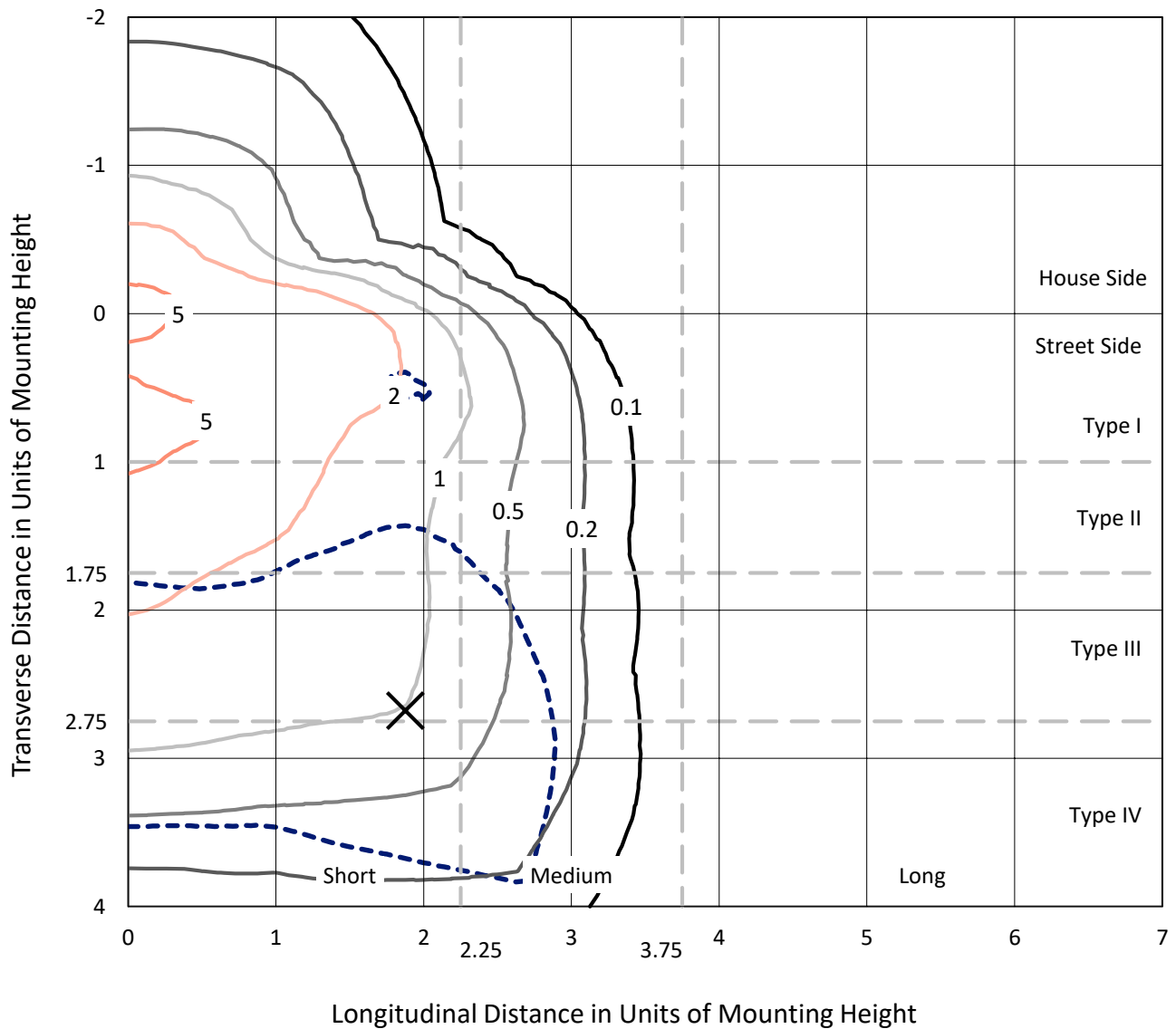


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

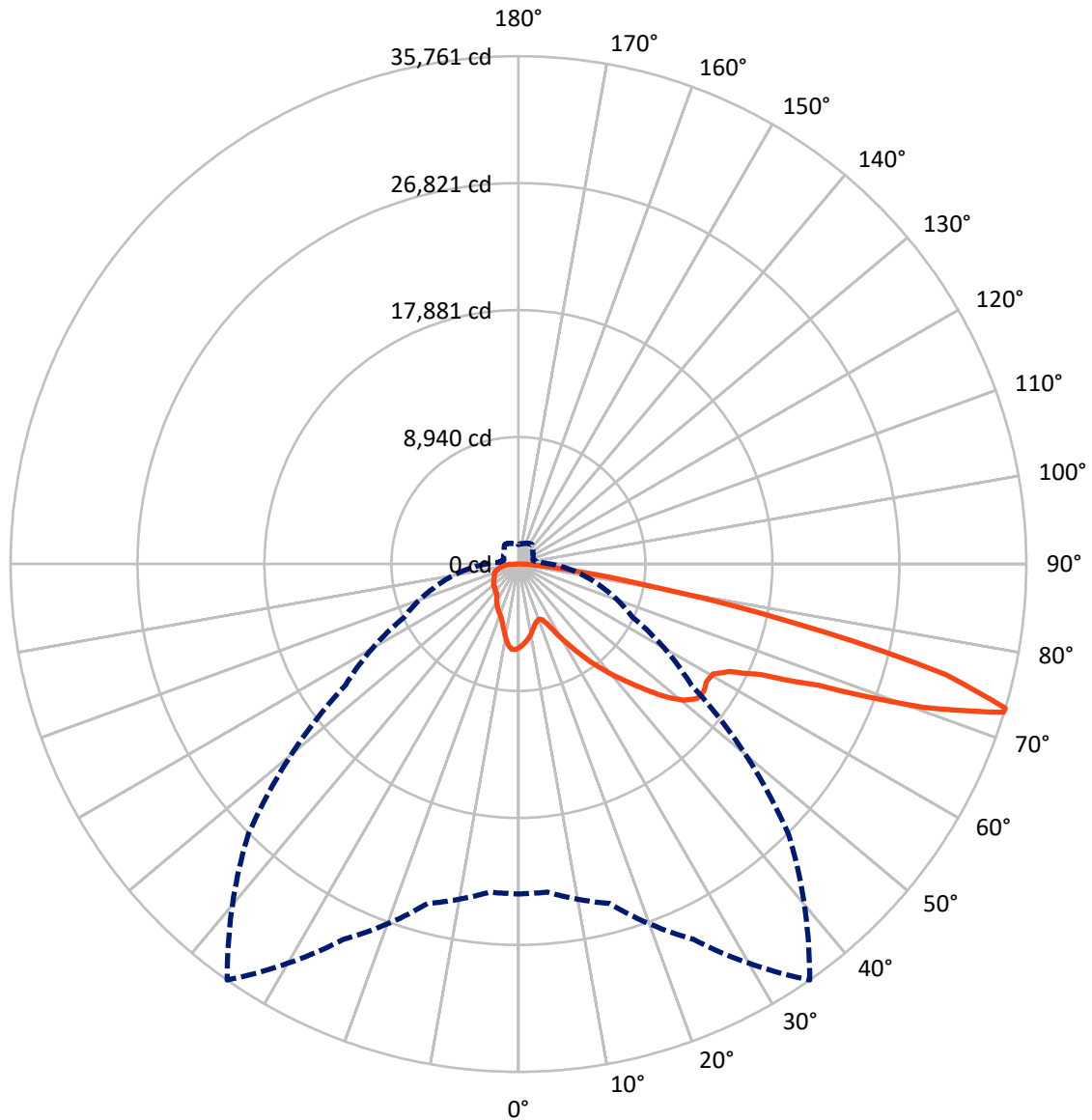


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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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	7453.1	0.0	7453.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	31623.9	0.0	31623.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	39077.0	0.0	39077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.4
10°-20°	1332.6	3.4
20°-30°	2154.4	5.5
30°-40°	3612.6	9.2
40°-50°	5568.6	14.3
50°-60°	7470.9	19.1
60°-70°	9952.7	25.5
70°-80°	7590.9	19.4
80°-90°	860.4	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°	39077.0	100.0
0°-180°	39077.0	100.0



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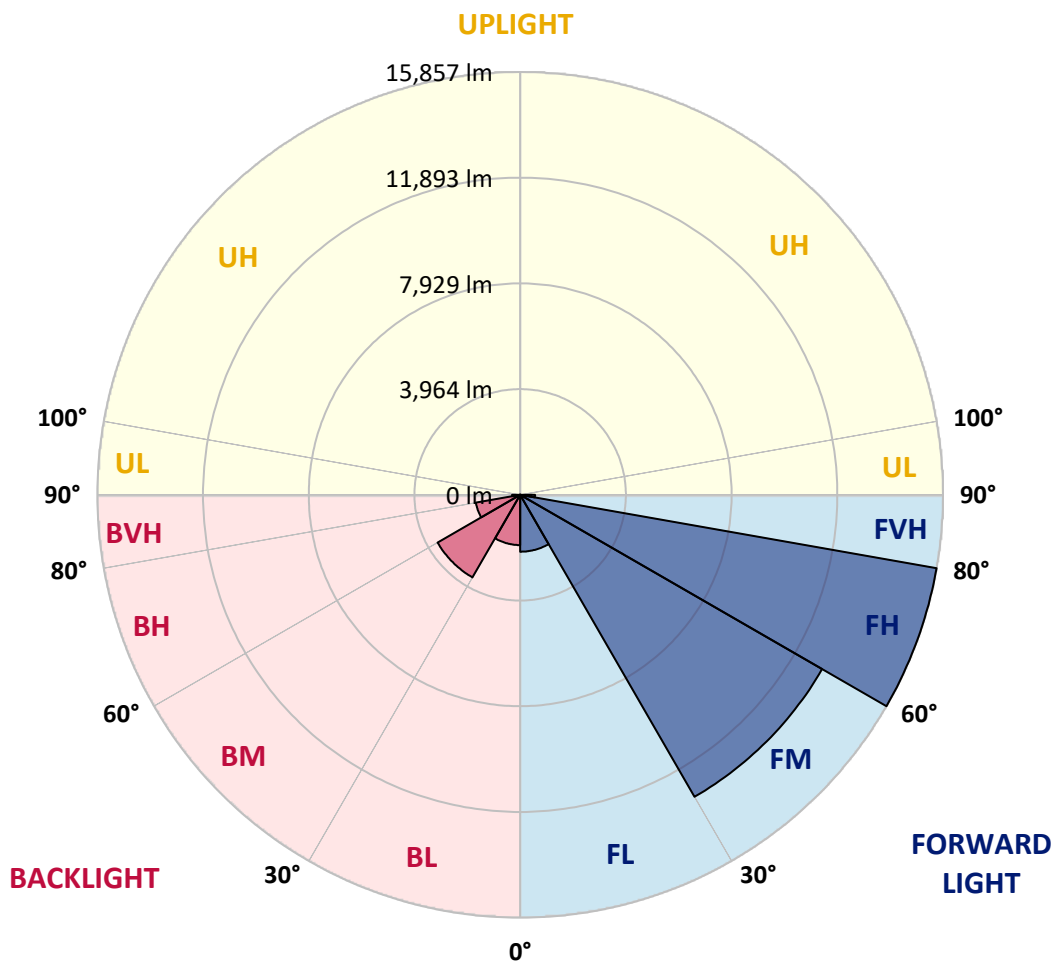
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2134.9	5.5			
FM	(30°-60°)	13075.4	33.5			
FH	(60°-80°)	15857.4	40.6			G5
FVH	(80°-90°)	556.2	1.4			G4/750
BL	(0°-30°)	1886.0	4.8	B3/2500		
BM	(30°-60°)	3576.6	9.2	B3/5000		
BH	(60°-80°)	1686.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	304.2	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°	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9
2.5°	5665.2	5676.5	5663.4	5680.3	5708.4	5738.4	5759.1	5789.1	5822.9	5869.8	5881.0
5°	5398.8	5415.7	5415.7	5445.7	5500.1	5548.9	5593.9	5642.7	5714.0	5794.7	5826.6
7.5°	5106.0	5115.4	5132.3	5177.3	5256.2	5325.6	5389.4	5468.2	5565.8	5672.7	5729.0
10°	4753.3	4766.4	4792.7	4856.5	4963.4	5059.1	5151.1	5259.9	5383.8	5517.0	5588.3
12.5°	4503.7	4499.9	4511.2	4558.1	4651.9	4768.3	4901.5	5040.4	5192.4	5348.1	5434.4
15°	4419.2	4398.6	4355.4	4344.2	4394.8	4511.2	4665.1	4835.8	5017.8	5205.5	5312.5
17.5°	4471.8	4436.1	4317.9	4231.6	4224.1	4312.3	4475.5	4666.9	4877.1	5106.0	5239.3
20°	4802.0	4717.6	4426.7	4225.9	4156.5	4199.7	4342.3	4545.0	4792.7	5096.7	5267.4
22.5°	5592.1	5468.2	4850.8	4477.4	4242.8	4190.3	4297.3	4513.1	4802.0	5213.0	5430.7
25°	6742.4	6566.0	5578.9	5104.2	4620.0	4340.4	4364.8	4586.2	4935.3	5483.2	5745.9
27.5°	7650.6	7536.1	6530.3	5988.0	5306.8	4745.7	4584.4	4770.1	5207.4	5926.1	6194.4
30°	8191.1	8121.6	7547.4	6990.1	6183.2	5391.3	5004.7	5115.4	5633.3	6539.7	6761.1
32.5°	8817.8	8776.5	8495.1	7982.8	7128.9	6239.5	5670.9	5631.5	6203.8	7277.2	7378.5
35°	9467.1	9454.0	9288.8	8921.0	8144.1	7357.9	6554.7	6288.3	6824.9	8042.8	7979.0
37.5°	10071.3	10048.8	9953.1	9739.2	9206.3	8558.9	7455.5	6961.9	7494.9	8774.7	8491.3
40°	11184.1	11007.7	10679.3	10517.9	10279.6	9570.3	8170.4	7590.6	8189.2	9472.7	8934.2
42.5°	12540.8	12253.7	11642.0	11420.6	11386.8	10367.8	8658.3	8200.4	8889.1	10165.2	9369.5
45°	13608.6	13338.4	12811.1	12531.5	12655.3	11090.3	9148.1	8851.6	9609.7	10891.4	9818.0
47.5°	14747.6	14323.6	13625.5	13709.9	13980.1	11773.3	9647.2	9551.5	10399.7	11703.9	10375.3
50°	14788.9	14464.3	14158.4	14663.2	15083.5	12402.0	10272.1	10285.3	11366.1	12726.6	11116.6
52.5°	13931.4	13861.9	14347.9	15141.7	15747.8	12899.3	10983.3	11043.4	12602.8	13901.3	11931.0
55°	13631.1	13552.3	14113.4	14974.7	15837.9	13310.2	11754.6	11863.4	14098.4	15139.8	12724.7
57.5°	14363.0	14188.4	14226.0	14895.9	15618.4	13760.6	12595.3	12814.8	15723.4	16222.6	13235.2
60°	16408.4	16034.9	15325.6	15308.7	15736.6	14436.1	13567.3	13835.7	17412.3	16740.5	13036.3
62.5°	19277.6	18904.2	17575.6	16710.5	16646.7	15550.8	14760.8	14832.1	18388.1	16038.7	11822.1
65°	22383.2	22049.2	20564.9	19343.3	18754.0	17397.3	16147.5	15276.8	18069.1	14107.8	9697.9
67.5°	26153.2	25794.8	24518.7	23390.9	22824.2	20377.2	17121.5	14850.9	16044.3	10928.9	6971.3
70°	28789.7	28423.8	27920.9	28834.8	30221.5	24676.4	17247.2	13118.8	11983.5	7264.0	4195.9
72.5°	25350.0	25179.3	26096.9	29945.7	35721.6	27284.7	15590.2	9551.5	6960.0	3856.3	2428.2
73°	23225.8	23188.3	24753.3	29166.9	35761.0	26883.2	14864.0	8877.9	5969.2	3411.5	2219.9
75°	10487.9	10790.0	14220.3	22278.2	31069.7	22152.4	10461.7	5092.9	3372.1	2356.9	1675.7
77.5°	2520.2	2625.3	4449.3	10579.9	19621.0	13201.4	4740.1	2518.3	2156.1	1664.5	1223.5
80°	1073.4	1109.0	1713.3	3908.8	9238.2	5316.2	2184.3	1687.0	1491.8	1161.6	857.6
82.5°	596.7	634.3	972.0	1773.3	3728.7	1812.7	1332.3	1174.7	981.4	699.9	557.3
85°	337.8	358.4	568.6	990.8	1580.0	728.1	797.5	780.6	553.6	360.3	274.0
87.5°	159.5	172.6	274.0	459.7	619.3	285.2	405.3	446.6	347.2	219.6	142.6
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°	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9	5897.9
2.5°	5894.2	5928.0	5967.4	5988.0	6006.8	6029.3	6051.8	6051.8	6055.6	6057.4
5°	5852.9	5922.3	5984.3	6010.5	6016.2	6016.2	6010.5	5980.5	5954.2	5965.5
7.5°	5766.6	5867.9	5920.5	5911.1	5839.8	5757.2	5687.8	5603.3	5560.2	5552.7
10°	5642.7	5759.1	5768.5	5674.6	5498.2	5321.8	5175.5	5032.9	4965.3	4948.4
12.5°	5505.7	5612.7	5552.7	5359.4	5076.0	4818.9	4633.2	4488.7	4424.9	4408.0
15°	5395.0	5468.2	5316.2	5012.2	4655.7	4383.6	4229.7	4122.7	4077.7	4064.6
17.5°	5336.9	5351.9	5074.1	4663.2	4284.1	4057.1	3961.4	3910.7	3893.8	3884.4
20°	5365.0	5259.9	4843.3	4338.5	3980.1	3820.6	3798.1	3785.0	3781.2	3775.6
22.5°	5505.7	5231.8	4631.3	4030.8	3713.7	3644.2	3663.0	3661.1	3657.4	3653.6
25°	5757.2	5256.2	4424.9	3738.0	3490.3	3475.3	3509.1	3509.1	3494.1	3494.1
27.5°	6089.3	5306.8	4194.0	3460.3	3287.7	3289.6	3315.8	3308.3	3291.4	3280.2
30°	6494.7	5338.7	3923.8	3210.7	3098.2	3090.6	3098.2	3066.2	3015.6	3011.8
32.5°	6909.4	5299.3	3610.4	2989.3	2897.4	2880.5	2874.8	2829.8	2771.6	2754.7
35°	7284.7	5154.8	3291.4	2812.9	2706.0	2668.4	2694.7	2679.7	2627.1	2614.0
37.5°	7558.7	4886.5	3004.3	2657.2	2569.0	2559.6	2576.5	2582.1	2520.2	2507.0
40°	7742.6	4522.4	2758.5	2525.8	2542.7	2507.0	2450.7	2411.3	2392.6	2386.9
42.5°	7890.8	4143.4	2552.1	2463.9	2548.3	2445.1	2323.1	2259.3	2293.1	2308.1
45°	8061.6	3773.7	2379.4	2386.9	2520.2	2373.8	2234.9	2173.0	2186.2	2189.9
47.5°	8296.1	3323.3	2193.7	2263.1	2426.4	2325.0	2180.5	2092.3	2030.4	2002.3
50°	8620.8	2790.4	2000.4	2124.2	2334.4	2289.4	2096.1	2002.3	1887.8	1861.5
52.5°	8846.0	2293.1	1840.9	2007.9	2251.8	2218.1	2028.5	1906.6	1786.5	1763.9
55°	8724.0	1904.7	1702.0	1878.4	2143.0	2129.9	1972.2	1809.0	1715.1	1696.4
57.5°	8114.1	1658.9	1595.1	1756.4	2009.8	2054.8	1897.2	1726.4	1658.9	1645.7
60°	6950.7	1505.0	1527.5	1673.9	1900.9	1979.7	1822.1	1681.4	1636.3	1627.0
62.5°	5393.1	1401.8	1476.8	1613.8	1816.5	1927.2	1780.8	1675.7	1658.9	1647.6
65°	3863.8	1319.2	1422.4	1553.8	1739.5	1878.4	1765.8	1668.2	1672.0	1662.6
67.5°	2625.3	1246.0	1356.7	1486.2	1664.5	1835.2	1745.2	1642.0	1688.9	1677.6
70°	1837.1	1174.7	1279.8	1399.9	1570.7	1775.2	1707.6	1602.6	1598.8	1553.8
72.5°	1433.7	1080.9	1174.7	1279.8	1450.6	1690.8	1632.6	1514.4	1452.4	1405.5
73°	1368.0	1058.4	1148.4	1253.5	1424.3	1670.1	1611.9	1490.0	1420.5	1377.4
75°	1131.5	960.8	1043.4	1137.2	1311.7	1572.5	1510.6	1379.2	1291.1	1264.8
77.5°	889.5	821.9	900.7	985.2	1155.9	1429.9	1360.5	1234.8	1186.0	1163.4
80°	658.7	681.2	750.6	825.7	1002.1	1277.9	1216.0	1090.3	1307.9	1253.5
82.5°	463.5	516.0	579.8	647.4	840.7	1129.7	1054.6	925.1	957.0	795.6
85°	274.0	337.8	397.8	456.0	606.1	936.4	870.7	737.5	604.2	576.1
87.5°	159.5	187.7	204.5	264.6	416.6	705.6	613.6	546.1	313.4	212.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)