

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: P192174

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34937 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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

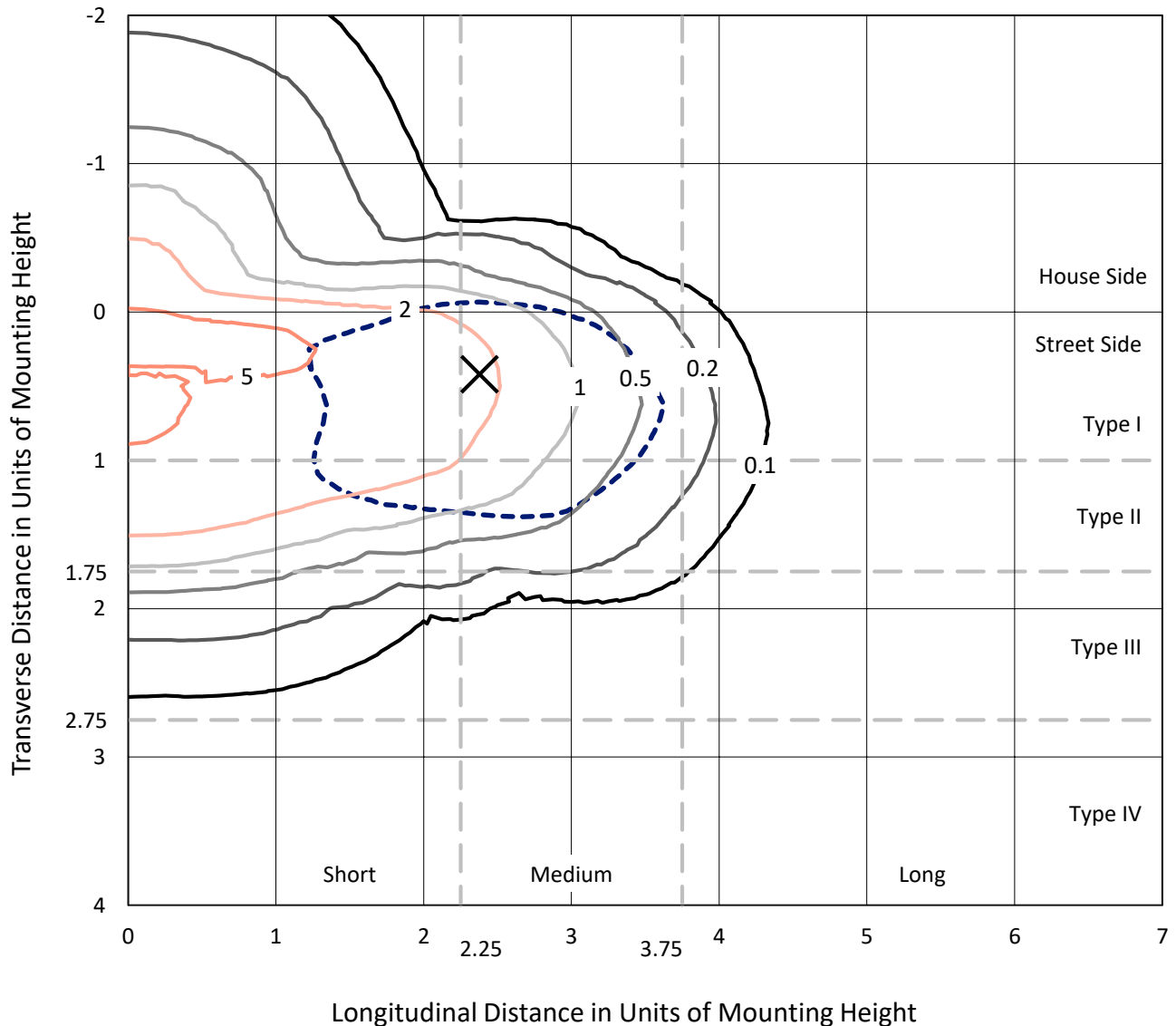


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

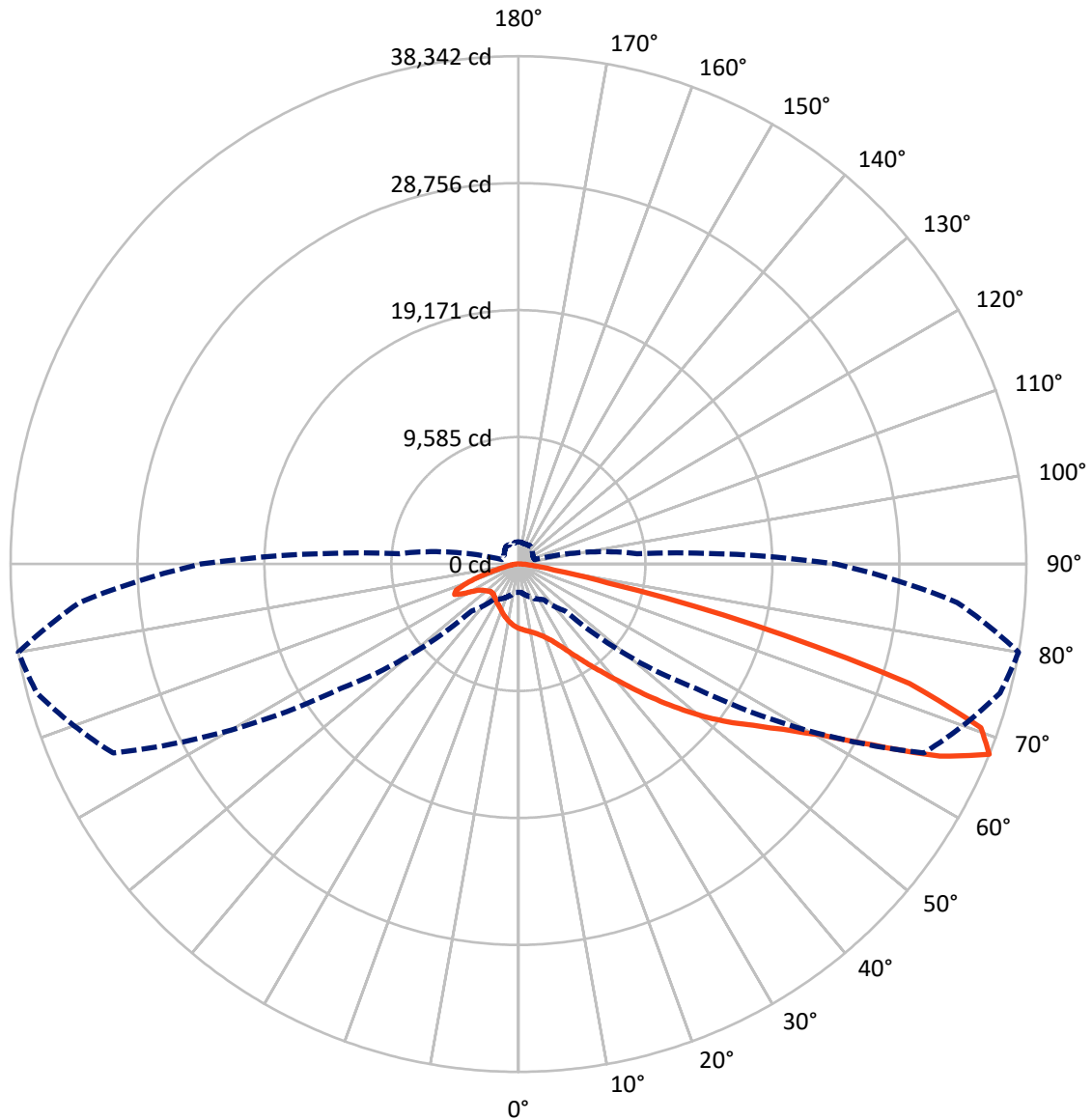


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6434.1	0.0	6434.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	28502.9	0.0	28502.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	34937.0	0.0	34937.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.7	1.3
10°-20°	1289.8	3.7
20°-30°	2134.9	6.1
30°-40°	3492.1	10.0
40°-50°	5638.4	16.1
50°-60°	8140.3	23.3
60°-70°	8983.3	25.7
70°-80°	4140.7	11.9
80°-90°	669.7	1.9
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°	34937.0	100.0
0°-180°	34937.0	100.0



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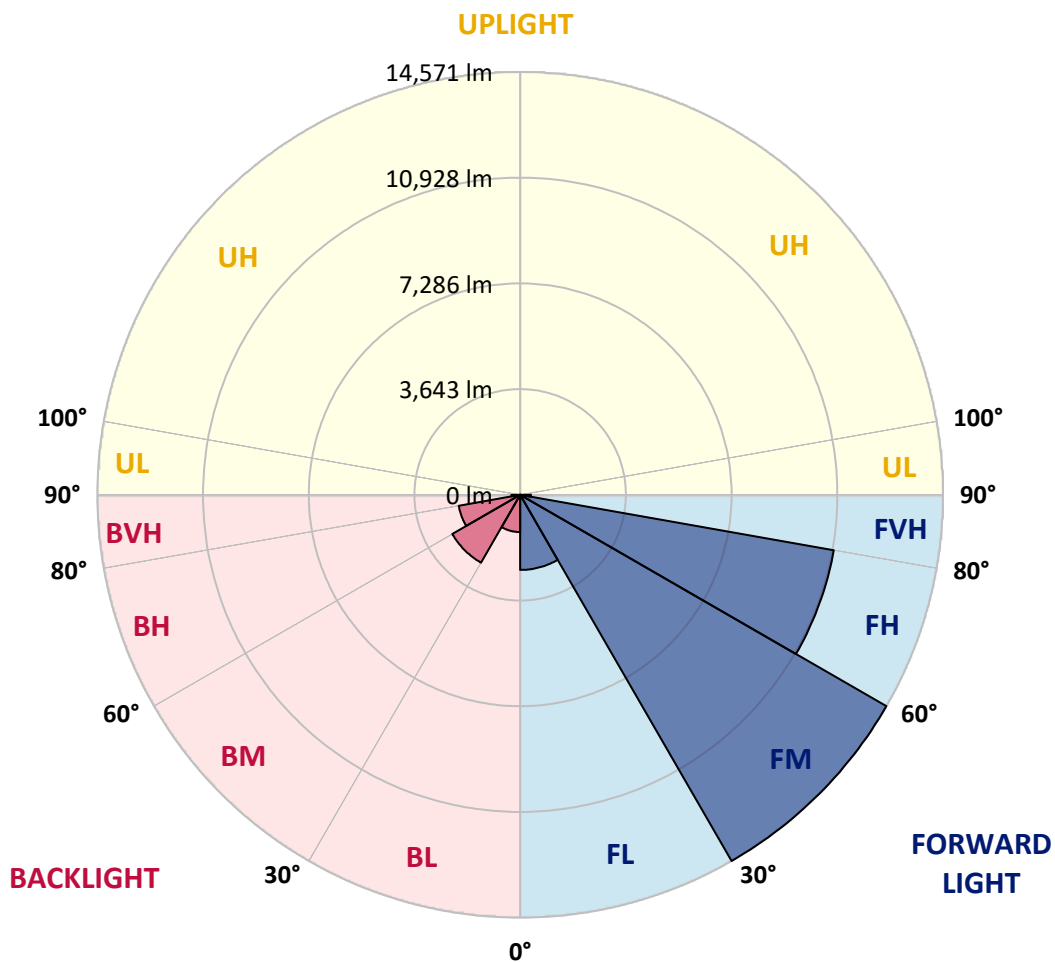
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.8	7.4			
FM (30°-60°)	14571.3	41.7			
FH (60°-80°)	10974.6	31.4			G4/12000
FVH (80°-90°)	368.2	1.1			G3/500
BL (0°-30°)	1283.7	3.7	B3/2500		
BM (30°-60°)	2699.5	7.7	B3/5000		
BH (60°-80°)	2149.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	301.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8
2.5°	5309.6	5278.6	5283.8	5275.2	5249.4	5204.6	5156.5	5068.8	4977.6	4929.4	4891.6
5°	5753.3	5744.7	5732.7	5705.2	5639.8	5546.9	5431.7	5276.9	5110.0	5022.3	4938.0
7.5°	6085.3	6080.1	6064.6	6047.4	5983.8	5872.0	5698.3	5478.1	5235.6	5115.2	4984.5
10°	6112.8	6121.4	6133.4	6179.9	6188.5	6128.3	5951.1	5684.5	5366.3	5211.5	5044.7
12.5°	5878.9	5897.8	5944.2	6062.9	6188.5	6262.4	6171.3	5901.2	5519.4	5331.9	5120.4
15°	5569.3	5579.6	5636.4	5799.8	6025.1	6253.8	6339.8	6140.3	5717.2	5486.7	5233.9
17.5°	5436.8	5442.0	5481.6	5589.9	5799.8	6126.5	6434.4	6400.0	5959.7	5679.4	5373.2
20°	5369.8	5381.8	5438.6	5545.2	5677.6	5963.1	6448.2	6680.4	6248.7	5920.1	5548.6
22.5°	5560.7	5555.5	5576.2	5629.5	5741.3	5913.3	6437.9	6969.3	6616.7	6229.7	5777.4
25°	6006.1	6025.1	5988.9	5928.7	5964.9	6085.3	6492.9	7282.4	7077.7	6627.1	6076.7
27.5°	6640.8	6621.9	6568.6	6427.5	6353.6	6405.2	6675.2	7619.5	7650.4	7149.9	6472.3
30°	7273.8	7258.3	7206.7	7034.7	6883.3	6840.3	7029.5	8006.5	8333.3	7777.7	6957.3
32.5°	7930.8	7913.6	7865.4	7693.4	7511.1	7411.4	7533.5	8453.7	9138.2	8527.6	7528.3
35°	8740.9	8708.2	8606.7	8367.7	8188.8	8111.4	8168.2	9016.1	10067.0	9415.1	8221.5
37.5°	9502.9	9552.7	9449.5	9119.3	8887.1	8859.6	8923.2	9702.4	11068.0	10407.6	9017.8
40°	10268.2	10276.8	10184.0	9913.9	9674.9	9630.1	9790.1	10534.8	12249.7	11594.3	9986.2
42.5°	11059.4	11076.6	10920.1	10670.7	10495.3	10503.9	10686.2	11510.1	13605.0	12992.7	11100.7
45°	11996.8	12022.6	11850.6	11523.8	11363.9	11685.5	11609.8	12604.0	15091.0	14581.9	12380.4
47.5°	12977.2	13016.8	12886.0	12579.9	12380.4	12822.4	12533.4	13816.5	16690.6	16286.4	13785.6
50°	13512.1	13568.9	13696.1	13673.8	13630.8	13556.8	13563.7	15116.8	18340.1	18061.4	15230.4
52.5°	13224.9	13223.2	13687.5	14251.7	14853.7	14898.4	14819.3	16487.7	19881.2	19796.9	16590.9
55°	11910.8	12000.3	12703.7	13795.9	15440.2	16467.0	16700.9	18058.0	21394.8	21492.8	17972.0
57.5°	9723.0	9797.0	10746.4	12268.6	14649.0	17399.3	19377.2	20340.4	23087.2	23544.7	19810.7
60°	6594.4	6683.8	7690.0	9518.3	12519.7	16879.8	21924.5	24413.3	25113.3	26153.9	22390.6
62.5°	3875.1	3955.9	4776.4	6004.4	8814.9	14466.7	23042.5	30207.9	28331.4	30090.9	26325.9
65°	2667.7	2722.7	3121.8	3737.5	5065.3	9743.7	21656.2	34208.6	33283.2	34968.8	30889.0
67.5°	2146.5	2139.6	2456.1	2875.8	3261.1	5024.0	16375.9	33756.2	37638.2	38341.7	33257.4
70°	1768.1	1761.3	1976.2	2323.7	2605.8	2829.4	8919.8	28486.2	36750.7	37036.2	31076.5
72.5°	1479.2	1486.1	1623.7	1881.7	2137.9	2131.0	3919.8	20039.4	28911.0	30885.6	24772.8
75°	1248.7	1252.1	1343.3	1525.6	1735.5	1716.5	2125.9	10856.5	16805.9	18180.1	13732.3
77.5°	1062.9	1066.4	1124.9	1226.3	1376.0	1369.1	1551.4	4690.4	7010.6	6924.6	4697.2
80°	947.7	947.7	975.2	994.1	1076.7	1045.7	1150.7	2253.2	2963.5	2736.5	1874.8
82.5°	743.0	746.5	915.0	908.1	847.9	808.4	808.4	1327.8	1570.3	1451.7	1097.3
85°	418.0	416.2	590.0	712.1	746.5	569.3	564.2	743.0	854.8	753.3	531.5
87.5°	178.9	182.3	273.5	316.5	423.1	354.3	349.2	383.6	435.2	376.7	246.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8
2.5°	4855.5	4810.8	4712.7	4590.6	4480.5	4408.3	4342.9	4248.3	4253.5	4188.1	4140.0
5°	4852.0	4759.2	4532.1	4262.1	4002.4	3814.9	3673.9	3546.6	3515.6	3455.4	3419.3
7.5°	4855.5	4704.1	4322.3	3890.6	3568.9	3331.6	3211.2	3144.1	3128.6	3108.0	3109.7
10°	4867.5	4654.2	4091.8	3543.1	3206.0	3049.5	3020.3	3040.9	3065.0	3071.9	3073.6
12.5°	4895.0	4609.5	3839.0	3233.6	2979.0	2930.8	2980.7	3051.2	3097.7	3120.0	3118.3
15°	4957.0	4575.1	3596.5	2991.0	2853.4	2879.2	2972.1	3071.9	3139.0	3169.9	3171.6
17.5°	5024.0	4525.3	3347.1	2805.3	2760.6	2825.9	2941.2	3058.1	3140.7	3175.1	3182.0
20°	5111.8	4463.3	3085.6	2666.0	2672.8	2746.8	2855.2	2972.1	3063.3	3092.5	3106.3
22.5°	5227.0	4396.3	2856.9	2552.4	2573.1	2629.8	2714.1	2815.6	2894.7	2908.5	2920.5
25°	5381.8	4324.0	2674.6	2449.2	2457.8	2490.5	2547.3	2607.5	2662.5	2647.0	2659.1
27.5°	5589.9	4262.1	2538.7	2354.6	2339.2	2346.0	2375.3	2394.2	2423.4	2380.4	2385.6
30°	5834.2	4195.0	2433.8	2272.1	2229.1	2217.0	2223.9	2234.2	2256.6	2198.1	2189.5
32.5°	6117.9	4114.2	2335.7	2199.8	2139.6	2115.6	2119.0	2146.5	2232.5	2196.4	2177.5
35°	6448.2	4023.0	2232.5	2120.7	2079.4	2045.0	2041.6	2127.6	2383.9	2361.5	2344.3
37.5°	6835.2	3931.9	2129.3	2031.3	2034.7	1996.9	1984.8	2082.9	2413.1	2325.4	2313.4
40°	7327.1	3883.7	2041.6	1936.7	1979.7	1974.5	1950.5	2000.3	2220.5	2060.5	2039.9
42.5°	7936.0	3890.6	1976.2	1835.2	1914.3	1969.4	1931.5	1933.3	2012.4	1892.0	1873.1
45°	8687.6	3971.4	1929.8	1754.4	1840.4	1964.2	1924.7	1897.1	1904.0	1840.4	1830.1
47.5°	9564.8	4138.3	1897.1	1687.3	1769.9	1945.3	1922.9	1886.8	1871.3	1836.9	1828.3
50°	10540.0	4380.8	1873.1	1623.7	1706.2	1914.3	1924.7	1876.5	1859.3	1845.5	1840.4
52.5°	11498.0	4657.7	1836.9	1568.6	1656.3	1876.5	1929.8	1866.2	1847.3	1836.9	1831.8
55°	12566.1	5003.4	1781.9	1522.2	1615.1	1828.3	1929.8	1850.7	1830.1	1831.8	1830.1
57.5°	14009.2	5562.4	1716.5	1482.6	1565.2	1769.9	1897.1	1833.5	1807.7	1809.4	1811.1
60°	16264.1	6547.9	1637.4	1443.1	1503.3	1701.1	1852.4	1795.7	1769.9	1776.7	1778.5
62.5°	19580.2	7994.4	1534.2	1384.6	1437.9	1627.1	1790.5	1747.5	1721.7	1738.9	1738.9
65°	23027.0	9270.7	1406.9	1310.6	1369.1	1546.3	1713.1	1687.3	1661.5	1701.1	1699.3
67.5°	23954.1	8985.1	1279.7	1229.8	1300.3	1456.8	1620.2	1606.5	1592.7	1661.5	1658.1
70°	21279.5	7213.6	1162.7	1147.2	1224.6	1360.5	1520.5	1520.5	1511.9	1563.5	1551.4
72.5°	16212.5	5115.2	1050.9	1059.5	1138.6	1255.6	1412.1	1424.1	1410.4	1436.2	1425.9
75°	8679.0	2927.4	939.1	963.2	1032.0	1148.9	1291.7	1303.7	1295.1	1293.4	1298.6
77.5°	2884.4	1431.0	822.1	860.0	920.2	1038.9	1166.1	1185.1	1164.4	1161.0	1159.3
80°	1284.8	899.5	693.1	743.0	796.3	913.3	1033.7	1049.2	1026.8	1057.8	1018.2
82.5°	825.6	591.7	555.6	610.6	662.2	787.7	901.3	904.7	884.1	1026.8	875.5
85°	400.8	366.4	418.0	467.8	512.6	619.2	746.5	748.2	696.6	634.7	612.3
87.5°	199.5	213.3	278.6	323.4	345.7	424.8	543.5	533.2	510.8	464.4	428.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)