

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: P191374

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191374
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35738.8 lumens
Efficiency: N/A
Efficacy: 107.3 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 (A_{in}): 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

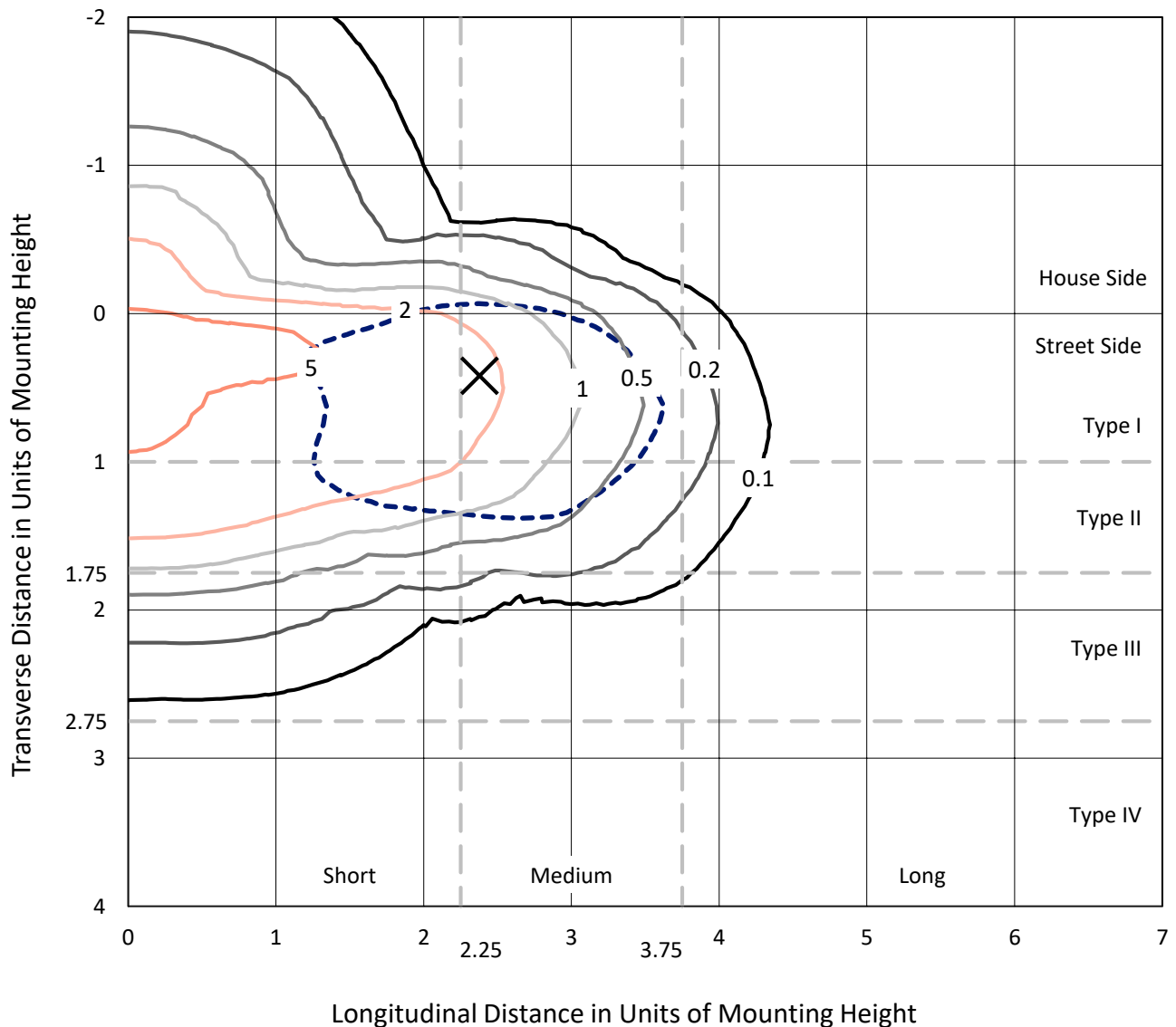


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

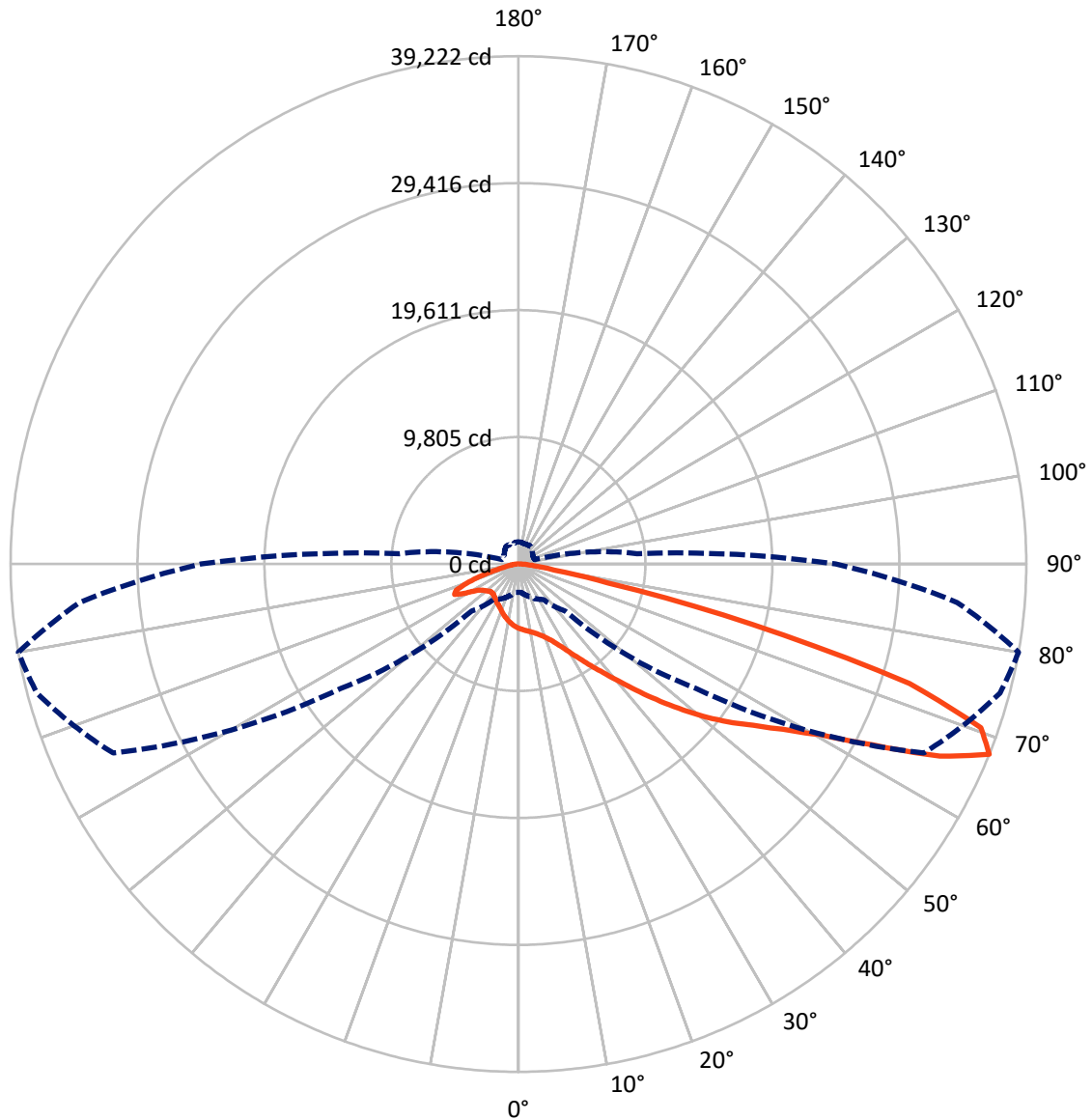


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - Full Cutoff

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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	6581.7	0.0	6581.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	29157.1	0.0	29157.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	35738.8	0.0	35738.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.0	1.3
10°-20°	1319.4	3.7
20°-30°	2183.9	6.1
30°-40°	3572.3	10.0
40°-50°	5767.8	16.1
50°-60°	8327.1	23.3
60°-70°	9189.4	25.7
70°-80°	4235.8	11.9
80°-90°	685.1	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°	35738.8	100.0
0°-180°	35738.8	100.0



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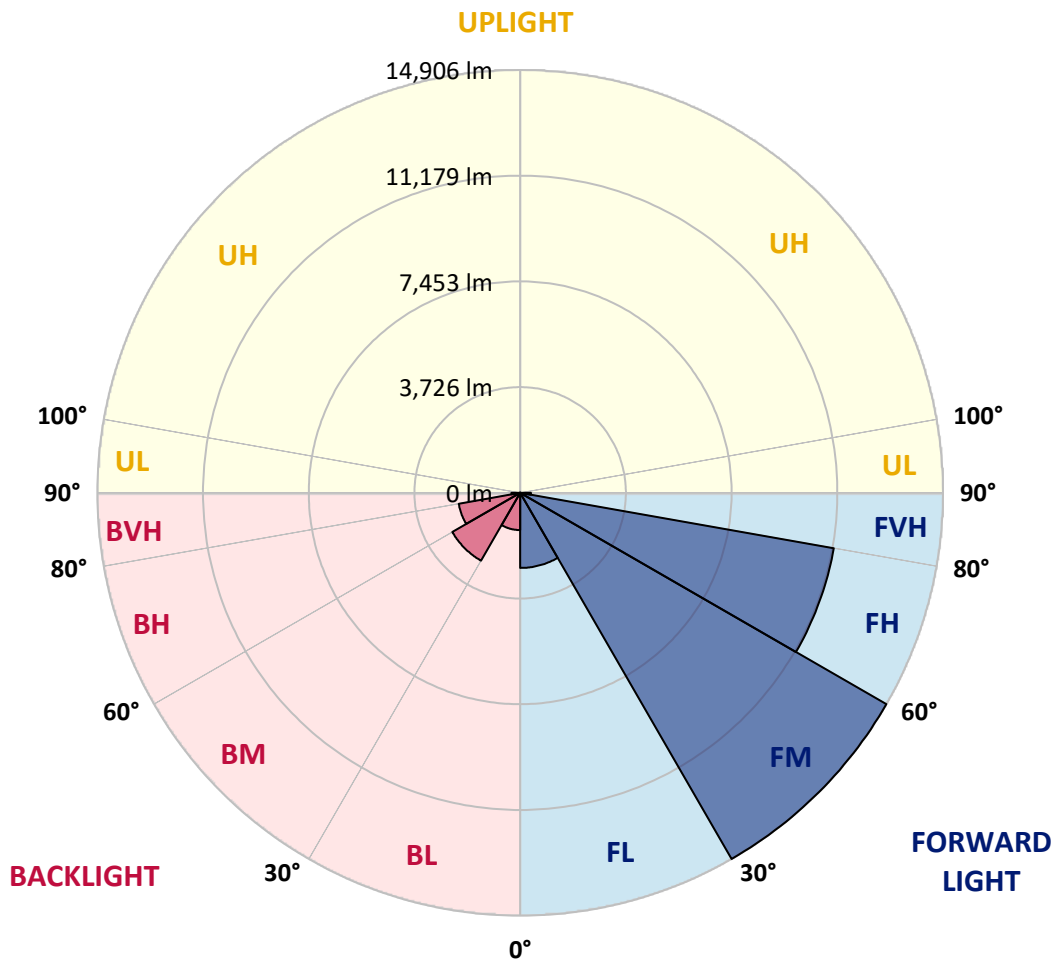
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.2	7.4			
FM (30°-60°)	14905.8	41.7			
FH (60°-80°)	11226.5	31.4			G4/12000
FVH (80°-90°)	376.7	1.1			G3/500
BL (0°-30°)	1313.1	3.7	B3/2500		
BM (30°-60°)	2761.5	7.7	B3/5000		
BH (60°-80°)	2198.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	308.4	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°	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2
2.5°	5431.5	5399.7	5405.1	5396.3	5369.9	5324.0	5274.8	5185.1	5091.8	5042.5	5003.9
5°	5885.3	5876.5	5864.3	5836.1	5769.2	5674.2	5556.4	5398.0	5227.3	5137.6	5051.3
7.5°	6225.0	6219.6	6203.8	6186.2	6121.1	6006.8	5829.1	5603.8	5355.8	5232.6	5098.9
10°	6253.1	6261.9	6274.2	6321.7	6330.5	6268.9	6087.7	5815.0	5489.5	5331.1	5160.5
12.5°	6013.8	6033.2	6080.6	6202.0	6330.5	6406.1	6312.9	6036.6	5646.1	5454.3	5237.9
15°	5697.1	5707.7	5765.8	5932.9	6163.4	6397.3	6485.3	6281.2	5848.4	5612.6	5354.0
17.5°	5561.6	5566.9	5607.4	5718.2	5932.9	6267.1	6582.1	6546.9	6096.5	5809.7	5496.5
20°	5493.0	5505.3	5563.4	5672.5	5807.9	6100.0	6596.2	6833.7	6392.1	6056.0	5675.9
22.5°	5688.3	5683.0	5704.2	5758.7	5873.1	6049.0	6585.7	7129.3	6768.6	6372.7	5910.0
25°	6143.9	6163.4	6126.4	6064.8	6101.8	6225.0	6641.9	7449.5	7240.1	6779.2	6216.2
27.5°	6793.2	6773.9	6719.4	6575.0	6499.4	6552.2	6828.4	7794.4	7826.0	7314.0	6620.8
30°	7440.7	7424.9	7372.1	7196.2	7041.3	6997.3	7190.8	8190.3	8524.6	7956.2	7117.0
32.5°	8112.8	8095.2	8045.9	7870.0	7683.5	7581.5	7706.4	8647.7	9347.9	8723.3	7701.1
35°	8941.5	8908.1	8804.2	8559.7	8376.7	8297.6	8355.7	9223.0	10298.0	9631.2	8410.2
37.5°	9721.0	9771.9	9666.4	9328.6	9091.1	9062.9	9128.0	9925.1	11322.0	10646.5	9224.8
40°	10503.9	10512.7	10417.7	10141.4	9896.9	9851.1	10014.8	10776.6	12530.8	11860.4	10215.4
42.5°	11313.2	11330.8	11170.7	10915.6	10736.2	10745.0	10931.5	11774.3	13917.2	13290.9	11355.5
45°	12272.1	12298.5	12122.6	11788.3	11624.7	11953.7	11876.3	12893.3	15437.4	14916.6	12664.5
47.5°	13275.0	13315.5	13181.7	12868.6	12664.5	13116.7	12821.1	14133.6	17073.7	16660.2	14102.0
50°	13822.2	13880.3	14010.4	13987.6	13943.6	13867.9	13875.0	15463.7	18761.0	18475.9	15580.0
52.5°	13528.4	13526.7	14001.6	14578.8	15194.6	15240.3	15159.4	16866.1	20337.5	20251.3	16971.7
55°	12184.2	12275.7	12995.3	14112.5	15794.6	16844.9	17084.2	18472.4	21885.8	21986.1	18384.5
57.5°	9946.2	10021.8	10993.0	12550.2	14985.2	17798.6	19821.9	20807.2	23617.1	24085.1	20265.4
60°	6745.7	6837.2	7866.5	9736.8	12807.0	17267.2	22427.7	24973.6	25689.7	26754.2	22904.5
62.5°	3964.0	4046.7	4886.0	6142.2	9017.2	14798.7	23571.3	30901.2	28981.6	30781.5	26930.1
65°	2728.9	2785.2	3193.4	3823.3	5181.6	9967.3	22153.2	34993.7	34047.1	35771.4	31597.9
67.5°	2195.8	2188.7	2512.5	2941.8	3335.9	5139.3	16751.7	34530.9	38502.0	39221.7	34020.7
70°	1808.7	1801.7	2021.6	2377.0	2665.6	2894.3	9124.5	29140.0	37594.2	37886.2	31789.7
72.5°	1513.1	1520.2	1661.0	1924.9	2187.0	2179.9	4009.8	20499.3	29574.5	31594.4	25341.4
75°	1277.4	1280.8	1374.1	1560.6	1775.3	1755.9	2174.7	11105.7	17191.6	18597.3	14047.5
77.5°	1087.3	1090.9	1150.7	1254.4	1407.6	1400.5	1587.0	4798.0	7171.5	7083.5	4805.0
80°	969.5	969.5	997.6	1016.9	1101.4	1069.7	1177.1	2304.9	3031.5	2799.3	1917.8
82.5°	760.1	763.6	936.0	928.9	867.4	827.0	827.0	1358.3	1606.3	1485.0	1122.5
85°	427.6	425.8	603.5	728.4	763.6	582.4	577.1	760.1	874.4	770.6	543.7
87.5°	183.0	186.5	279.8	323.8	432.8	362.4	357.2	392.4	445.2	385.3	251.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2	4965.2
2.5°	4966.9	4921.2	4820.9	4696.0	4583.3	4509.5	4442.6	4345.8	4351.1	4284.2	4235.0
5°	4963.4	4868.4	4636.1	4359.9	4094.3	3902.5	3758.2	3628.0	3596.3	3534.7	3497.8
7.5°	4966.9	4812.1	4421.5	3979.9	3650.8	3408.1	3284.9	3216.3	3200.4	3179.3	3181.1
10°	4979.2	4761.0	4185.7	3624.4	3279.6	3119.5	3089.6	3110.7	3135.3	3142.4	3144.1
12.5°	5007.3	4715.3	3927.1	3307.8	3047.4	2998.1	3049.1	3121.2	3168.8	3191.6	3189.9
15°	5070.8	4680.1	3679.0	3059.6	2918.9	2945.3	3040.3	3142.4	3211.0	3242.7	3244.4
17.5°	5139.3	4629.2	3423.9	2869.7	2824.0	2890.8	3008.7	3128.3	3212.8	3248.0	3255.0
20°	5229.1	4565.7	3156.4	2727.2	2734.1	2809.8	2920.7	3040.3	3133.6	3163.5	3177.6
22.5°	5347.0	4497.2	2922.5	2611.0	2632.2	2690.2	2776.4	2880.2	2961.1	2975.3	2987.5
25°	5505.3	4423.2	2736.0	2505.4	2514.2	2547.7	2605.8	2667.3	2723.6	2707.8	2720.1
27.5°	5718.2	4359.9	2597.0	2408.6	2392.9	2399.8	2429.8	2449.1	2479.0	2435.0	2440.4
30°	5968.1	4291.3	2489.7	2324.2	2280.3	2267.9	2274.9	2285.5	2308.4	2248.5	2239.8
32.5°	6258.3	4208.6	2389.3	2250.3	2188.7	2164.2	2167.6	2195.8	2283.7	2246.8	2227.5
35°	6596.2	4115.3	2283.7	2169.4	2127.1	2091.9	2088.5	2176.4	2438.6	2415.7	2398.1
37.5°	6992.1	4022.1	2178.2	2077.9	2081.4	2042.7	2030.4	2130.7	2468.5	2378.8	2366.5
40°	7495.3	3972.8	2088.5	1981.1	2025.1	2019.8	1995.3	2046.2	2271.5	2107.8	2086.7
42.5°	8118.1	3979.9	2021.6	1877.3	1958.2	2014.6	1975.8	1977.7	2058.6	1935.4	1916.1
45°	8887.0	4062.5	1974.1	1794.7	1882.6	2009.3	1968.9	1940.6	1947.7	1882.6	1872.1
47.5°	9784.3	4233.3	1940.6	1726.0	1810.5	1989.9	1967.0	1930.1	1914.2	1879.1	1870.3
50°	10781.9	4481.3	1916.1	1661.0	1745.4	1958.2	1968.9	1919.6	1902.0	1887.9	1882.6
52.5°	11761.9	4764.6	1879.1	1604.6	1694.3	1919.6	1974.1	1909.0	1889.7	1879.1	1873.8
55°	12854.5	5118.2	1822.8	1557.1	1652.2	1870.3	1974.1	1893.2	1872.1	1873.8	1872.1
57.5°	14330.7	5690.1	1755.9	1516.6	1601.1	1810.5	1940.6	1875.6	1849.2	1850.9	1852.7
60°	16637.4	6698.2	1675.0	1476.2	1537.8	1740.1	1894.9	1836.9	1810.5	1817.5	1819.3
62.5°	20029.6	8177.9	1569.4	1416.4	1470.9	1664.4	1831.6	1787.6	1761.2	1778.8	1778.8
65°	23555.5	9483.5	1439.2	1340.7	1400.5	1581.8	1752.4	1726.0	1699.6	1740.1	1738.3
67.5°	24503.9	9191.3	1309.1	1258.0	1330.1	1490.2	1657.4	1643.4	1629.3	1699.6	1696.2
70°	21767.9	7379.2	1189.4	1173.5	1252.7	1391.7	1555.4	1555.4	1546.6	1599.4	1587.0
72.5°	16584.6	5232.6	1075.0	1083.8	1164.7	1284.4	1444.5	1456.8	1442.8	1469.2	1458.6
75°	8878.2	2994.6	960.7	985.3	1055.7	1175.3	1321.3	1333.6	1324.8	1323.1	1328.4
77.5°	2950.6	1463.8	841.0	879.7	941.3	1062.7	1192.9	1212.3	1191.1	1187.6	1185.9
80°	1314.3	920.1	709.0	760.1	814.6	934.3	1057.4	1073.3	1050.4	1082.1	1041.6
82.5°	844.5	605.3	568.4	624.6	677.4	805.8	922.0	925.5	904.4	1050.4	895.6
85°	410.0	374.8	427.6	478.5	524.4	633.4	763.6	765.4	712.6	649.3	626.4
87.5°	204.1	218.2	285.0	330.8	353.6	434.5	556.0	545.4	522.5	475.1	438.1
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)