

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: P191383

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191383
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-05-LED-E1-T2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32761 lumens
Efficiency: N/A
Efficacy: 102.4 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): 320
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

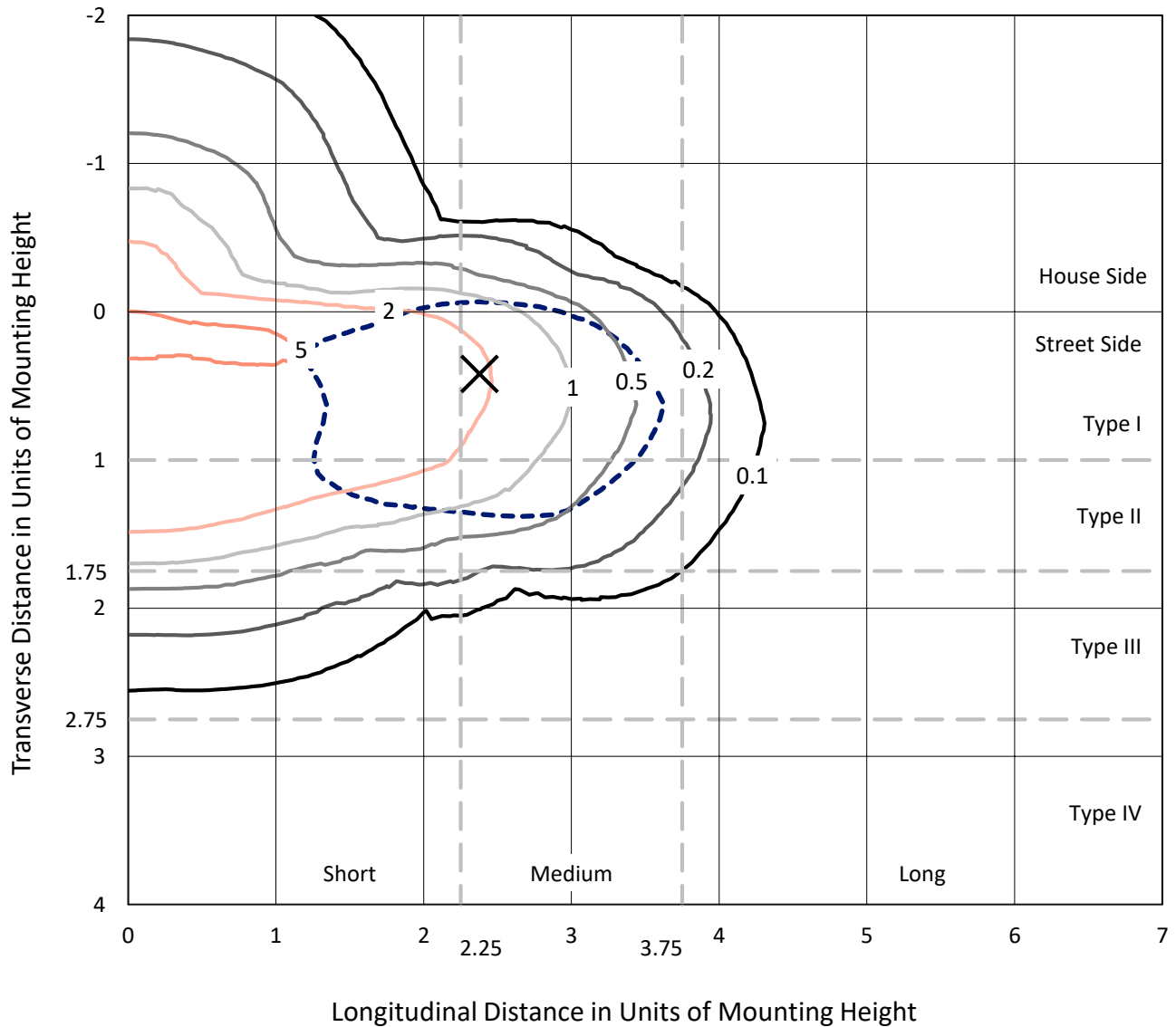


REPORT NUMBER: P191383

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

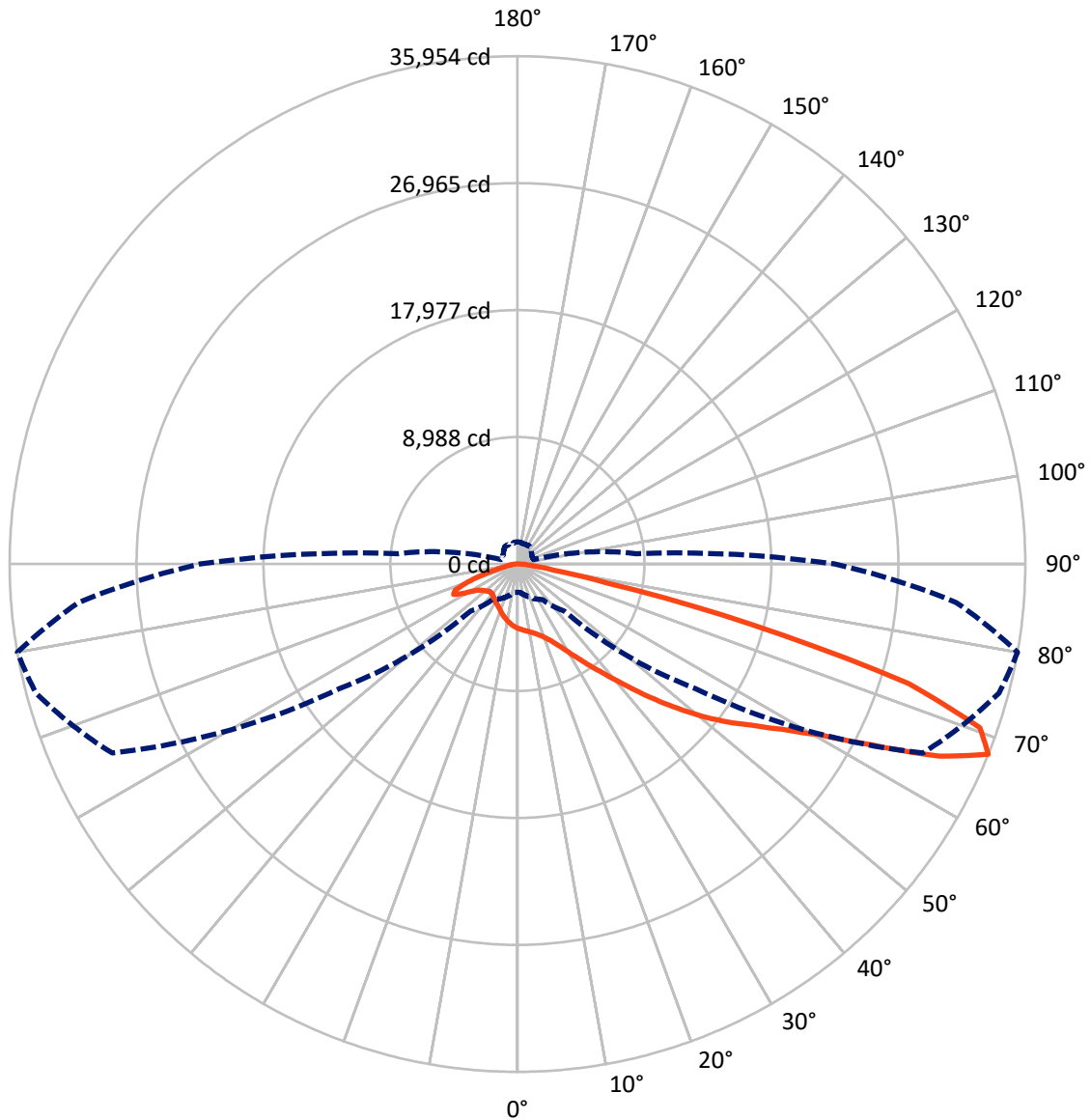


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191383

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191383

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-1200

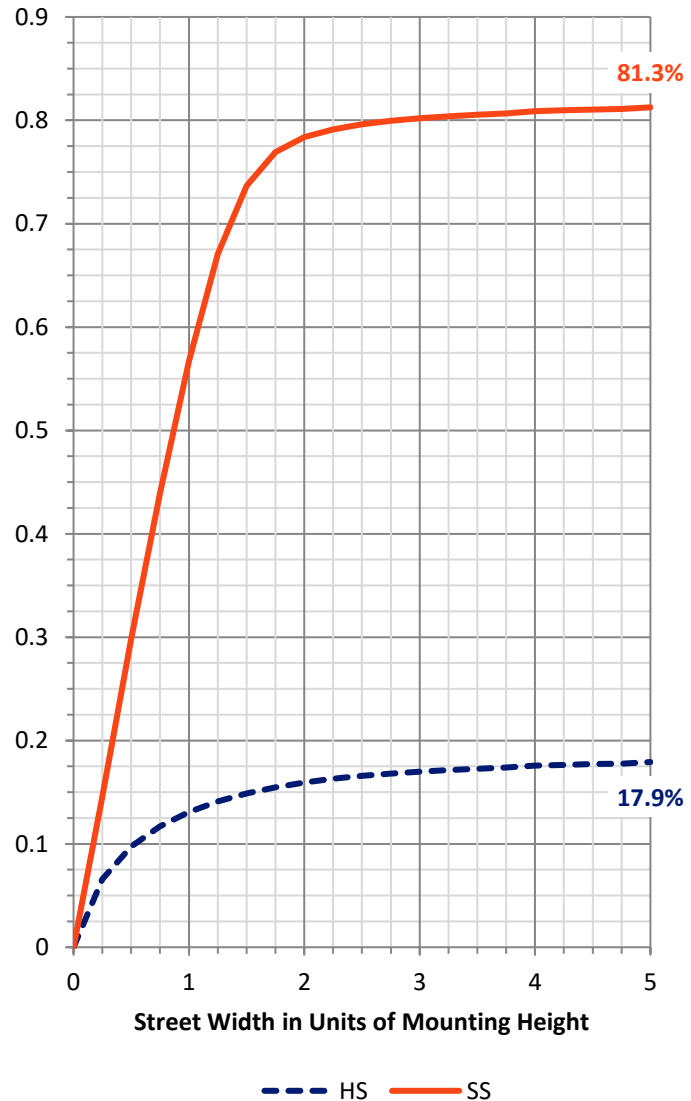
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6033.3	0.0	6033.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	26727.7	0.0	26727.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	32761.0	0.0	32761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.3
10°-20°	1209.5	3.7
20°-30°	2001.9	6.1
30°-40°	3274.7	10.0
40°-50°	5287.3	16.1
50°-60°	7633.2	23.3
60°-70°	8423.8	25.7
70°-80°	3882.8	11.9
80°-90°	628.0	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°	32761.0	100.0
0°-180°	32761.0	100.0



REPORT NUMBER: P191383

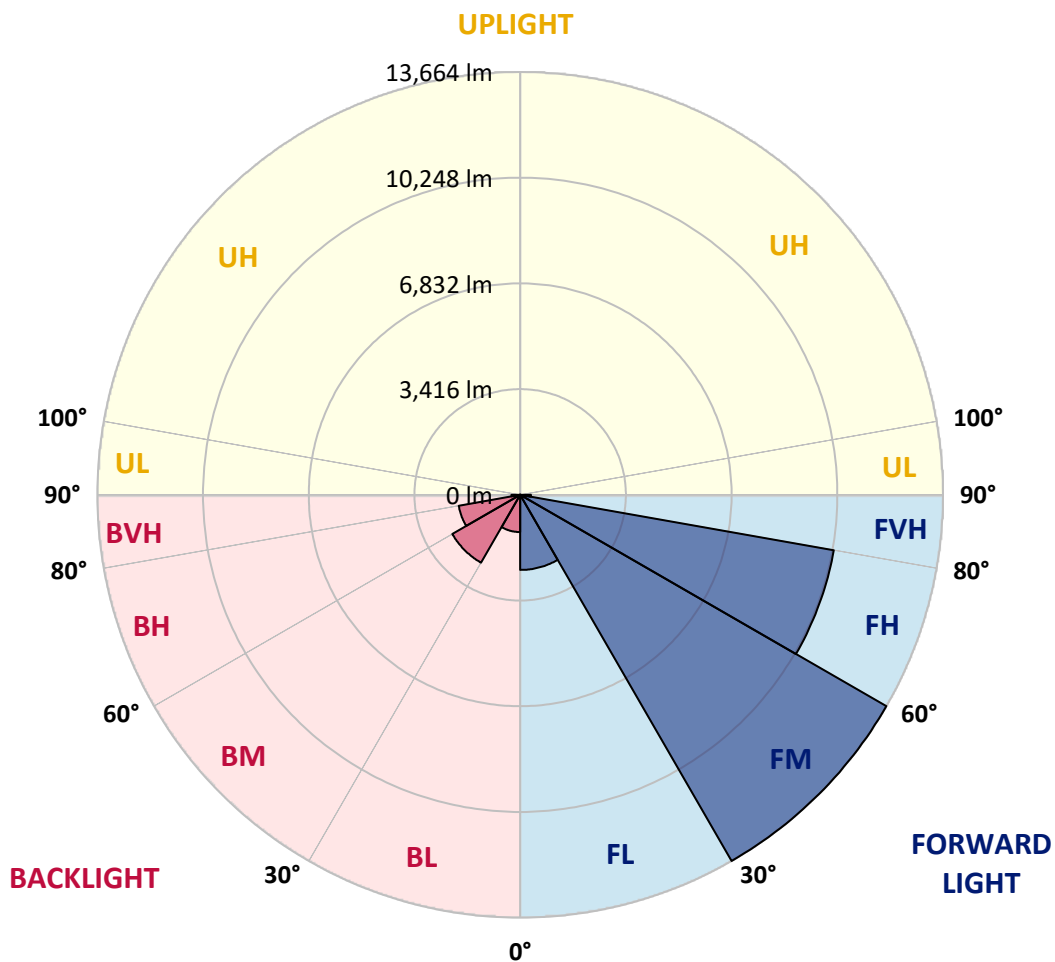
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2427.5	7.4			
FM	(30°-60°)	13663.8	41.7			
FH	(60°-80°)	10291.1	31.4			G4/12000
FVH	(80°-90°)	345.3	1.1			G3/500
BL	(0°-30°)	1203.7	3.7	B3/2500		
BM	(30°-60°)	2531.4	7.7	B3/5000		
BH	(60°-80°)	2015.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	282.7	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





REPORT NUMBER: P191383

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4
2.5°	4978.9	4949.9	4954.7	4946.6	4922.4	4880.5	4835.3	4753.0	4667.6	4622.4	4586.9
5°	5394.9	5387.0	5375.6	5349.8	5288.6	5201.4	5093.4	4948.2	4791.8	4709.6	4630.5
7.5°	5706.2	5701.4	5686.9	5670.7	5611.1	5506.2	5343.4	5137.0	4909.6	4796.6	4674.1
10°	5732.1	5740.1	5751.4	5795.0	5803.0	5746.6	5580.5	5330.5	5032.1	4886.9	4730.5
12.5°	5512.7	5530.5	5574.0	5685.3	5803.0	5872.4	5786.9	5533.7	5175.6	4999.9	4801.4
15°	5222.4	5232.1	5285.3	5438.5	5649.9	5864.3	5945.0	5757.9	5361.1	5145.0	4907.9
17.5°	5098.2	5103.1	5140.1	5241.8	5438.5	5745.0	6033.7	6001.4	5588.5	5325.6	5038.5
20°	5035.3	5046.6	5099.8	5199.9	5324.0	5591.8	6046.6	6264.3	5859.5	5551.5	5203.0
22.5°	5214.4	5209.5	5228.8	5278.8	5383.7	5545.0	6036.8	6535.2	6204.6	5841.8	5417.5
25°	5632.1	5649.9	5615.9	5559.5	5593.4	5706.2	6088.5	6828.8	6636.9	6214.3	5698.2
27.5°	6227.2	6209.5	6159.5	6027.2	5957.9	6006.3	6259.4	7144.9	7174.0	6704.6	6069.2
30°	6820.7	6806.2	6757.8	6596.6	6454.6	6414.3	6591.7	7507.8	7814.2	7293.3	6524.0
32.5°	7436.9	7420.7	7375.6	7214.3	7043.3	6949.7	7064.3	7927.2	8569.1	7996.5	7059.5
35°	8196.5	8165.8	8070.7	7846.5	7678.8	7606.2	7659.4	8454.6	9440.0	8828.8	7709.4
37.5°	8911.0	8957.8	8861.0	8551.4	8333.6	8307.8	8367.4	9098.1	10378.7	9759.4	8456.1
40°	9628.7	9636.8	9549.7	9296.5	9072.2	9030.3	9180.4	9878.7	11486.7	10872.2	9364.2
42.5°	10370.6	10386.7	10239.9	10006.1	9841.6	9849.7	10020.6	10793.2	12757.6	12183.4	10409.3
45°	11249.6	11273.8	11112.5	10806.0	10656.1	10957.6	10886.8	11819.0	14151.1	13673.7	11609.3
47.5°	12168.9	12206.1	12083.5	11796.4	11609.3	12023.8	11752.8	12956.0	15651.0	15272.0	12927.0
50°	12670.6	12723.8	12843.1	12822.2	12781.9	12712.5	12719.0	14175.3	17197.8	16936.5	14281.8
52.5°	12401.2	12399.6	12835.1	13364.0	13928.6	13970.5	13896.3	15460.8	18642.9	18563.9	15557.5
55°	11169.0	11252.9	11912.5	12936.6	14478.5	15441.4	15660.8	16933.3	20062.2	20154.2	16852.7
57.5°	9117.5	9186.8	10077.1	11504.4	13736.6	16315.6	18170.4	19073.5	21649.2	22078.2	18576.8
60°	6183.6	6267.5	7211.1	8925.6	11739.9	15828.5	20559.0	22892.8	23549.2	24524.9	20996.1
62.5°	3633.7	3709.5	4478.9	5630.4	8265.9	13565.7	21607.4	28326.4	26566.9	28216.8	24686.3
65°	2501.5	2553.2	2927.3	3504.7	4749.9	9136.8	20307.4	32077.9	31210.2	32790.8	28965.2
67.5°	2012.9	2006.4	2303.2	2696.7	3058.0	4711.1	15355.9	31653.8	35294.0	35953.7	31186.1
70°	1658.0	1651.6	1853.2	2179.0	2443.4	2653.1	8364.3	26712.0	34461.8	34729.5	29140.9
72.5°	1387.0	1393.5	1522.6	1764.5	2004.8	1998.3	3675.7	18791.3	27110.3	28961.9	23229.9
75°	1171.0	1174.1	1259.7	1430.6	1627.4	1609.6	1993.5	10180.3	15759.2	17047.8	12877.0
77.5°	996.8	999.9	1054.8	1150.0	1290.2	1283.8	1454.7	4398.3	6574.0	6493.3	4404.7
80°	888.6	888.6	914.5	932.2	1009.7	980.6	1079.0	2112.8	2778.9	2566.1	1758.0
82.5°	696.7	700.0	858.1	851.6	795.1	758.0	758.0	1245.1	1472.5	1361.2	1029.0
85°	391.9	390.4	553.2	667.7	700.0	533.9	529.0	696.7	801.6	706.4	498.4
87.5°	167.8	170.9	256.5	296.8	396.8	332.3	327.4	359.7	408.1	353.2	230.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191383

CATALOG NUMBER: GLEON-AF-05-LED-E1-T2-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4	4551.4
2.5°	4553.1	4511.1	4419.2	4304.7	4201.5	4133.7	4072.5	3983.8	3988.6	3927.3	3882.1
5°	4549.9	4462.7	4249.8	3996.7	3753.1	3577.3	3445.1	3325.7	3296.7	3240.2	3206.3
7.5°	4553.1	4411.2	4053.1	3648.3	3346.7	3124.1	3011.2	2948.2	2933.7	2914.4	2916.0
10°	4564.4	4364.3	3837.0	3322.4	3006.4	2859.6	2832.1	2851.5	2874.1	2880.5	2882.2
12.5°	4590.2	4322.5	3599.9	3032.1	2793.5	2748.3	2795.1	2861.2	2904.8	2925.7	2924.1
15°	4648.2	4290.2	3372.5	2804.7	2675.7	2699.9	2787.0	2880.5	2943.4	2972.5	2974.1
17.5°	4711.1	4243.4	3138.6	2630.5	2588.6	2650.0	2758.0	2867.6	2945.1	2977.3	2983.7
20°	4793.3	4185.3	2893.4	2499.9	2506.3	2575.7	2677.4	2787.0	2872.4	2899.9	2912.9
22.5°	4901.5	4122.5	2678.9	2393.5	2412.8	2466.0	2545.1	2640.2	2714.4	2727.3	2738.6
25°	5046.6	4054.7	2508.0	2296.7	2304.8	2335.4	2388.6	2445.1	2496.7	2482.2	2493.4
27.5°	5241.8	3996.7	2380.6	2208.0	2193.5	2200.0	2227.4	2245.1	2272.5	2232.2	2237.0
30°	5470.7	3933.8	2282.2	2130.6	2090.3	2078.9	2085.4	2095.1	2116.1	2061.2	2053.2
32.5°	5736.9	3858.0	2190.2	2062.9	2006.4	1983.8	1987.0	2012.9	2093.5	2059.6	2041.9
35°	6046.6	3772.4	2093.5	1988.6	1949.9	1917.7	1914.5	1995.1	2235.5	2214.5	2198.3
37.5°	6409.5	3687.0	1996.7	1904.7	1908.0	1872.5	1861.3	1953.1	2262.9	2180.5	2169.3
40°	6870.8	3641.8	1914.5	1816.0	1856.3	1851.5	1828.9	1875.8	2082.2	1932.1	1912.8
42.5°	7441.7	3648.3	1853.2	1720.9	1795.1	1846.7	1811.2	1812.9	1887.0	1774.1	1756.4
45°	8146.5	3724.1	1809.6	1645.1	1725.7	1841.8	1804.8	1779.0	1785.5	1725.7	1716.1
47.5°	8969.0	3880.6	1779.0	1582.2	1659.6	1824.1	1803.2	1769.3	1754.8	1722.5	1714.5
50°	9883.5	4108.0	1756.4	1522.6	1599.9	1795.1	1804.8	1759.6	1743.5	1730.6	1725.7
52.5°	10781.9	4367.6	1722.5	1470.9	1553.1	1759.6	1809.6	1750.0	1732.2	1722.5	1717.6
55°	11783.5	4691.8	1670.9	1427.3	1514.5	1714.5	1809.6	1735.4	1716.1	1717.6	1716.1
57.5°	13136.6	5215.9	1609.6	1390.3	1467.7	1659.6	1779.0	1719.3	1695.1	1696.7	1698.3
60°	15251.1	6140.2	1535.4	1353.2	1409.6	1595.1	1737.1	1683.8	1659.6	1666.1	1667.7
62.5°	18360.6	7496.5	1438.7	1298.3	1348.4	1525.7	1679.0	1638.7	1614.4	1630.6	1630.6
65°	21592.9	8693.2	1319.3	1229.0	1283.8	1449.9	1606.4	1582.2	1558.1	1595.1	1593.5
67.5°	22462.2	8425.5	1199.9	1153.2	1219.4	1366.0	1519.3	1506.4	1493.5	1558.1	1554.8
70°	19954.2	6764.3	1090.3	1075.7	1148.4	1275.7	1425.8	1425.8	1417.7	1466.1	1454.7
72.5°	15202.7	4796.6	985.4	993.5	1067.8	1177.4	1324.1	1335.5	1322.6	1346.7	1337.1
75°	8138.4	2745.1	880.7	903.2	967.7	1077.4	1211.3	1222.5	1214.4	1212.9	1217.7
77.5°	2704.8	1341.9	770.9	806.4	862.9	974.2	1093.5	1111.2	1091.9	1088.6	1087.1
80°	1204.8	843.5	650.0	696.7	746.8	856.4	969.3	983.9	962.9	991.9	954.8
82.5°	774.2	554.8	521.0	572.5	620.9	738.7	845.2	848.3	829.0	962.9	820.9
85°	375.8	343.5	391.9	438.7	480.6	580.6	700.0	701.5	653.2	595.2	574.2
87.5°	187.1	200.0	261.3	303.2	324.2	398.3	509.6	500.0	479.0	435.5	401.6
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)