

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: P191372

Luminaire Tested: **GLEON-AF-04-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191372
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-04-LED-E1-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 24103.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

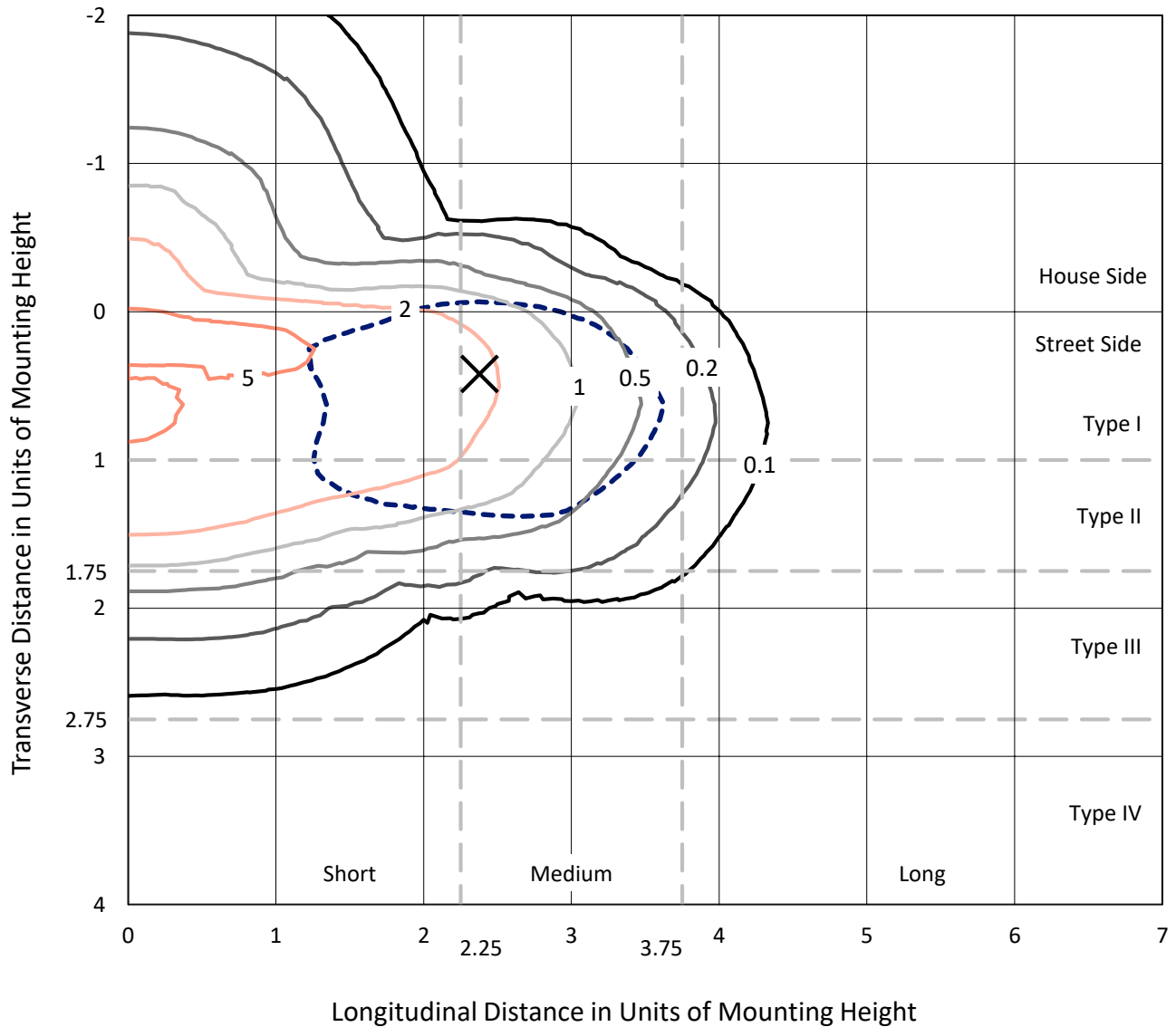


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

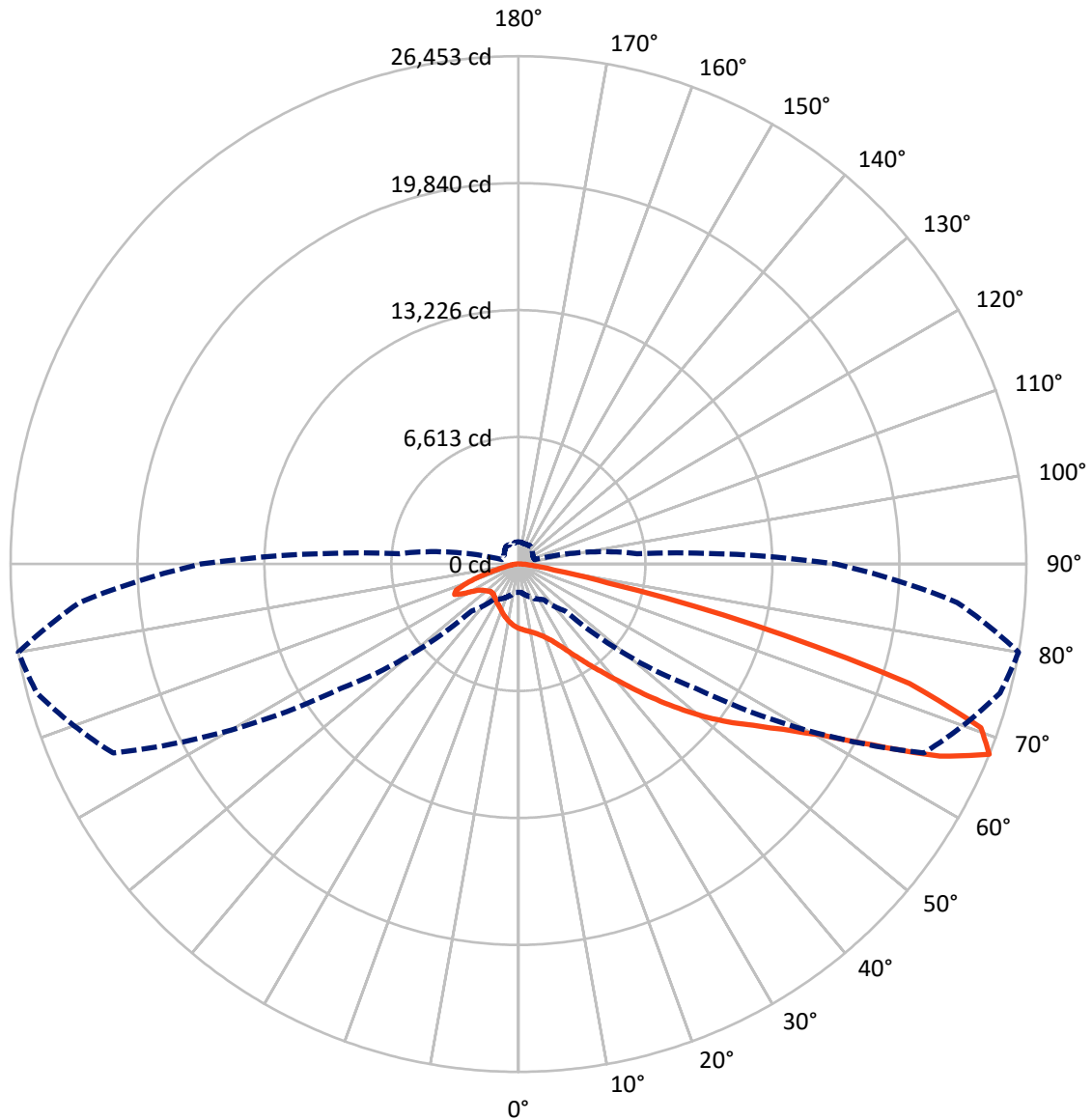


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Full Cutoff

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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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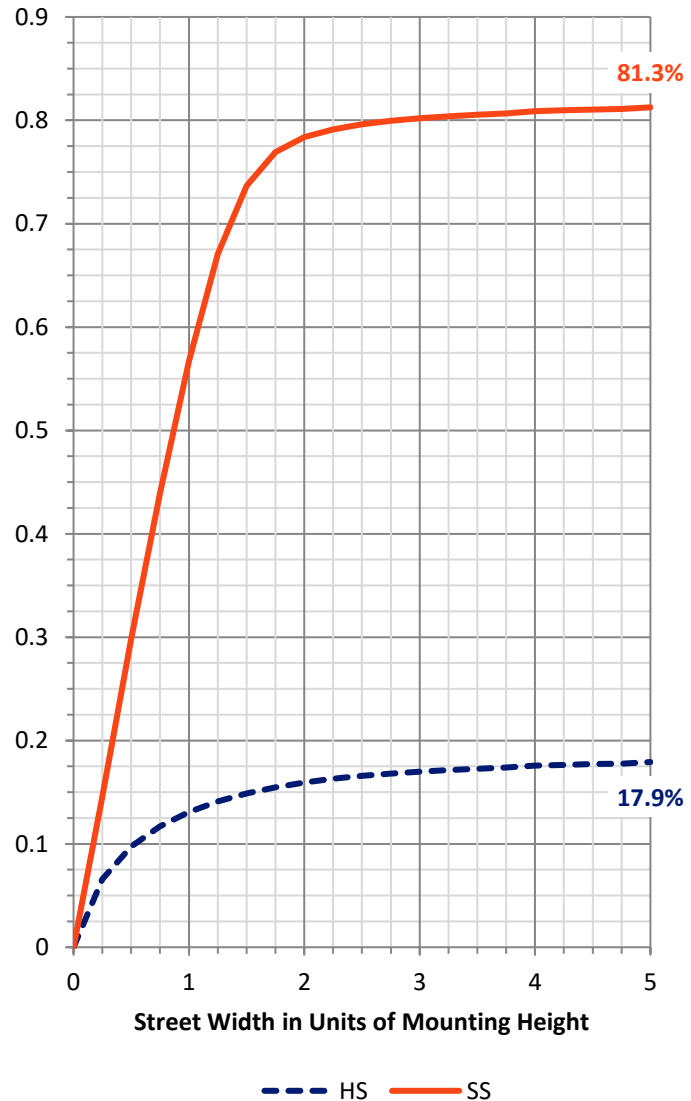
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4439.0	0.0	4439.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	19664.8	0.0	19664.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	24103.8	0.0	24103.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.3
10°-20°	889.9	3.7
20°-30°	1472.9	6.1
30°-40°	2409.3	10.0
40°-50°	3890.1	16.1
50°-60°	5616.1	23.3
60°-70°	6197.7	25.7
70°-80°	2856.8	11.9
80°-90°	462.1	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°	24103.8	100.0
0°-180°	24103.8	100.0



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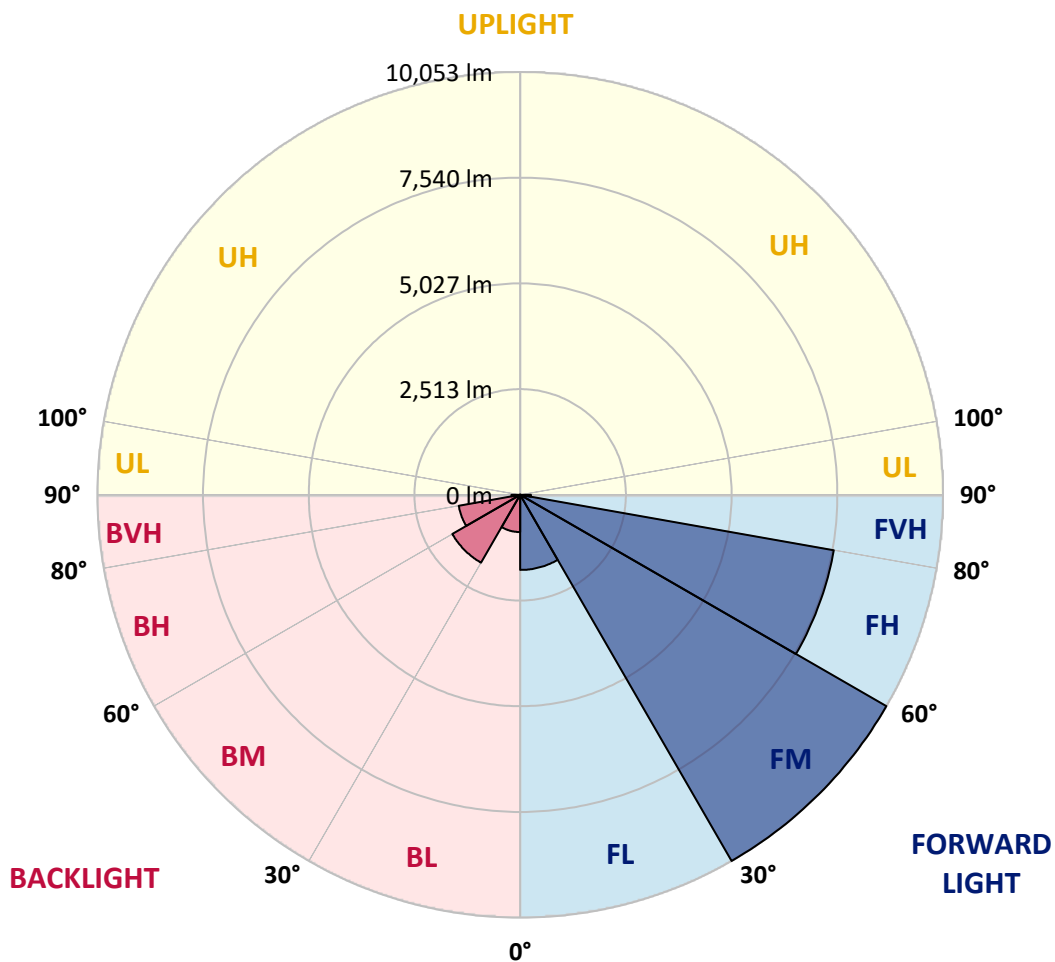
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.0	7.4			
FM (30°-60°)	10053.1	41.7			
FH (60°-80°)	7571.6	31.4			G4/12000
FVH (80°-90°)	254.0	1.1			G3/500
BL (0°-30°)	885.6	3.7	B2/1000		
BM (30°-60°)	1862.4	7.7	B2/2500		
BH (60°-80°)	1482.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	208.0	0.9			G2/225
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°	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7
2.5°	3663.2	3641.8	3645.4	3639.5	3621.7	3590.8	3557.6	3497.1	3434.1	3400.9	3374.8
5°	3969.4	3963.4	3955.1	3936.1	3891.0	3827.0	3747.5	3640.7	3525.5	3465.0	3406.8
7.5°	4198.4	4194.8	4184.1	4172.2	4128.3	4051.2	3931.4	3779.5	3612.1	3529.1	3438.9
10°	4217.3	4223.3	4231.5	4263.7	4269.6	4228.1	4105.8	3921.9	3702.4	3595.6	3480.4
12.5°	4056.0	4069.0	4101.0	4182.9	4269.6	4320.5	4257.7	4071.3	3807.9	3678.6	3532.7
15°	3842.4	3849.5	3888.6	4001.4	4156.9	4314.6	4373.9	4236.3	3944.4	3785.4	3611.0
17.5°	3751.0	3754.5	3781.8	3856.6	4001.4	4226.8	4439.2	4415.5	4111.8	3918.3	3707.1
20°	3704.7	3713.0	3752.2	3825.7	3917.1	4114.1	4448.7	4608.9	4311.1	4084.4	3828.1
22.5°	3836.5	3832.9	3847.1	3883.9	3961.1	4079.7	4441.7	4808.3	4565.0	4298.0	3985.9
25°	4143.8	4156.9	4131.9	4090.4	4115.3	4198.4	4479.6	5024.2	4883.1	4572.2	4192.5
27.5°	4581.7	4568.6	4531.8	4434.5	4383.4	4419.0	4605.4	5256.8	5278.2	4932.9	4465.4
30°	5018.3	5007.7	4972.1	4853.4	4748.9	4719.3	4849.8	5523.8	5749.3	5366.0	4800.0
32.5°	5471.7	5459.8	5426.5	5307.9	5182.1	5113.2	5197.5	5832.4	6304.7	5883.4	5193.9
35°	6030.5	6008.0	5938.0	5773.0	5649.7	5596.3	5635.4	6220.4	6945.4	6495.7	5672.2
37.5°	6556.2	6590.7	6519.5	6291.6	6131.4	6112.4	6156.3	6693.9	7636.1	7180.4	6221.6
40°	7084.2	7090.2	7026.1	6839.9	6674.9	6644.1	6754.4	7268.2	8451.3	7999.2	6889.7
42.5°	7630.2	7642.1	7534.0	7362.0	7241.0	7246.9	7372.6	7941.1	9386.4	8963.9	7658.6
45°	8276.9	8294.7	8176.0	7950.6	7840.2	8062.1	8009.9	8695.8	10411.6	10060.4	8541.4
47.5°	8953.3	8980.6	8890.4	8679.1	8541.4	8846.5	8647.1	9532.4	11515.3	11236.4	9511.0
50°	9322.3	9361.4	9449.3	9433.9	9404.2	9353.1	9357.9	10429.4	12653.2	12461.0	10507.8
52.5°	9124.1	9123.0	9443.4	9832.6	10247.9	10278.7	10224.2	11375.2	13716.4	13658.3	11446.4
55°	8217.6	8279.3	8764.5	9518.0	10652.5	11361.0	11522.3	12458.6	14760.7	14828.4	12399.3
57.5°	6708.1	6759.1	7414.1	8464.3	10106.7	12004.1	13368.7	14033.2	15928.4	16244.0	13667.7
60°	4549.6	4611.4	5305.5	6566.9	8637.6	11645.8	15126.2	16843.3	17326.2	18044.1	15447.8
62.5°	2673.5	2729.3	3295.3	4142.5	6081.5	9980.9	15897.5	20841.1	19546.4	20760.4	18162.8
65°	1840.5	1878.4	2153.7	2578.6	3494.7	6722.3	14941.1	23601.2	22962.8	24125.7	21311.0
67.5°	1480.9	1476.2	1694.5	1984.1	2249.9	3466.2	11298.1	23289.1	25967.4	26452.7	22945.0
70°	1219.9	1215.2	1363.5	1603.2	1797.7	1952.0	6154.0	19653.2	25355.1	25552.1	21440.3
72.5°	1020.5	1025.3	1120.2	1298.2	1475.0	1470.3	2704.4	13825.6	19946.3	21308.6	17091.3
75°	861.5	863.9	926.8	1052.5	1197.4	1184.3	1466.7	7490.1	11594.7	12542.8	9474.2
77.5°	733.4	735.7	776.1	846.1	949.3	944.6	1070.3	3236.0	4836.8	4777.5	3240.7
80°	653.9	653.9	672.8	685.9	742.9	721.5	793.9	1554.5	2044.6	1888.0	1293.4
82.5°	512.6	515.1	631.3	626.6	585.0	557.7	557.7	916.1	1083.4	1001.6	757.1
85°	288.4	287.1	407.0	491.2	515.1	392.8	389.2	512.6	589.7	519.8	366.6
87.5°	123.4	125.8	188.6	218.3	292.0	244.5	240.9	264.6	300.2	259.8	169.7
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°	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7	3348.7
2.5°	3349.9	3319.1	3251.4	3167.2	3091.3	3041.3	2996.3	2931.1	2934.5	2889.5	2856.3
5°	3347.5	3283.5	3126.9	2940.5	2761.4	2632.0	2534.7	2446.9	2425.5	2384.0	2359.0
7.5°	3349.9	3245.5	2982.0	2684.2	2462.2	2298.6	2215.5	2169.2	2158.5	2144.3	2145.4
10°	3358.2	3211.0	2823.0	2444.4	2211.9	2103.9	2083.8	2098.0	2114.6	2119.3	2120.6
12.5°	3377.2	3180.3	2648.6	2230.9	2055.3	2022.1	2056.4	2105.1	2137.1	2152.6	2151.4
15°	3419.9	3156.5	2481.3	2063.6	1968.7	1986.5	2050.5	2119.3	2165.6	2187.0	2188.2
17.5°	3466.2	3122.0	2309.2	1935.4	1904.5	1949.6	2029.1	2109.8	2166.8	2190.5	2195.3
20°	3526.7	3079.4	2128.9	1839.3	1844.1	1895.1	1969.8	2050.5	2113.4	2133.6	2143.1
22.5°	3606.2	3033.0	1971.0	1761.0	1775.2	1814.4	1872.5	1942.6	1997.1	2006.6	2014.9
25°	3713.0	2983.2	1845.2	1689.8	1695.7	1718.3	1757.4	1799.0	1836.9	1826.3	1834.6
27.5°	3856.6	2940.5	1751.5	1624.5	1613.8	1618.6	1638.8	1651.9	1672.0	1642.3	1645.9
30°	4025.1	2894.2	1679.1	1567.6	1537.9	1529.6	1534.3	1541.5	1556.9	1516.5	1510.6
32.5°	4220.9	2838.5	1611.5	1517.8	1476.2	1459.5	1461.9	1480.9	1540.3	1515.3	1502.3
35°	4448.7	2775.6	1540.3	1463.1	1434.7	1411.0	1408.5	1467.8	1644.7	1629.3	1617.4
37.5°	4715.7	2712.7	1469.1	1401.4	1403.8	1377.7	1369.4	1437.0	1664.9	1604.4	1596.0
40°	5055.1	2679.4	1408.5	1336.2	1365.8	1362.3	1345.7	1380.1	1532.0	1421.6	1407.4
42.5°	5475.1	2684.2	1363.5	1266.1	1320.7	1358.7	1332.6	1333.8	1388.3	1305.3	1292.3
45°	5993.8	2740.0	1331.4	1210.4	1269.7	1355.1	1327.9	1308.9	1313.6	1269.7	1262.6
47.5°	6599.0	2855.1	1308.9	1164.1	1221.1	1342.1	1326.7	1301.7	1291.1	1267.3	1261.4
50°	7271.7	3022.4	1292.3	1120.2	1177.1	1320.7	1327.9	1294.6	1282.8	1273.3	1269.7
52.5°	7932.8	3213.4	1267.3	1082.2	1142.7	1294.6	1331.4	1287.5	1274.5	1267.3	1263.8
55°	8669.6	3451.9	1229.4	1050.2	1114.3	1261.4	1331.4	1276.8	1262.6	1263.8	1262.6
57.5°	9665.2	3837.6	1184.3	1022.8	1079.8	1221.1	1308.9	1265.0	1247.2	1248.3	1249.5
60°	11221.0	4517.6	1129.6	995.6	1037.2	1173.6	1278.0	1238.9	1221.1	1225.8	1227.0
62.5°	13508.8	5515.5	1058.4	955.2	992.1	1122.6	1235.3	1205.6	1187.9	1199.7	1199.7
65°	15886.8	6396.0	970.7	904.2	944.6	1066.8	1181.9	1164.1	1146.3	1173.6	1172.4
67.5°	16526.4	6199.1	882.9	848.4	897.1	1005.0	1117.8	1108.4	1098.9	1146.3	1144.0
70°	14681.2	4976.8	802.2	791.5	844.9	938.7	1049.0	1049.0	1043.1	1078.7	1070.3
72.5°	11185.4	3529.1	725.1	731.0	785.5	866.2	974.3	982.5	973.0	990.8	983.8
75°	5987.8	2019.7	647.9	664.5	712.0	792.7	891.2	899.5	893.5	892.3	895.9
77.5°	1990.0	987.2	567.2	593.3	634.8	716.8	804.6	817.6	803.3	801.0	799.8
80°	886.4	620.6	478.2	512.6	549.4	630.1	713.2	723.8	708.4	729.8	702.5
82.5°	569.6	408.2	383.3	421.3	456.8	543.5	621.9	624.2	610.0	708.4	604.1
85°	276.5	252.8	288.4	322.7	353.6	427.2	515.1	516.2	480.6	437.8	422.5
87.5°	137.7	147.1	192.2	223.1	238.6	293.1	375.0	367.9	352.4	320.4	295.4
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)