

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: P383037

Luminaire Tested: **GLEON-SA3D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22990.6 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

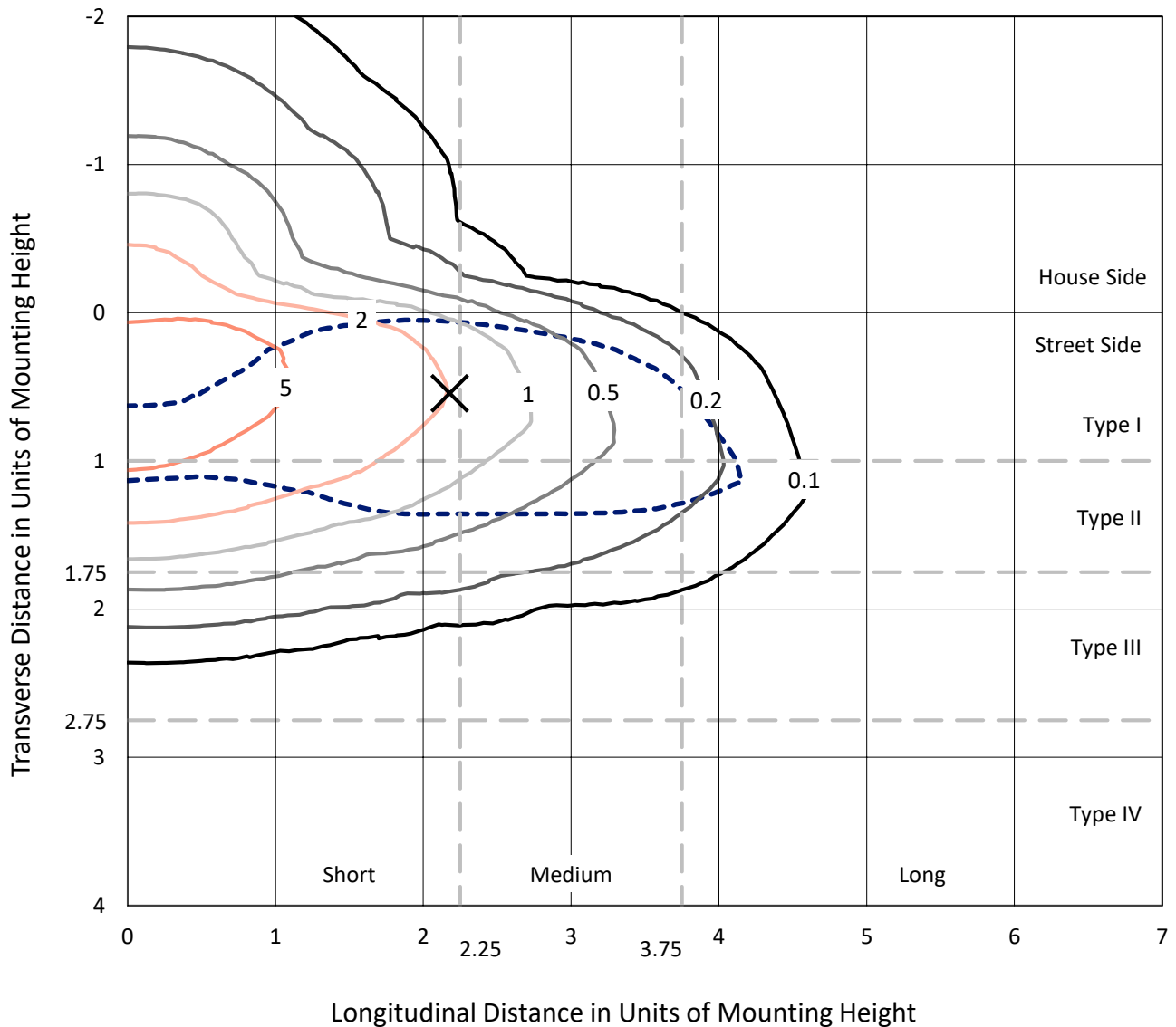
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

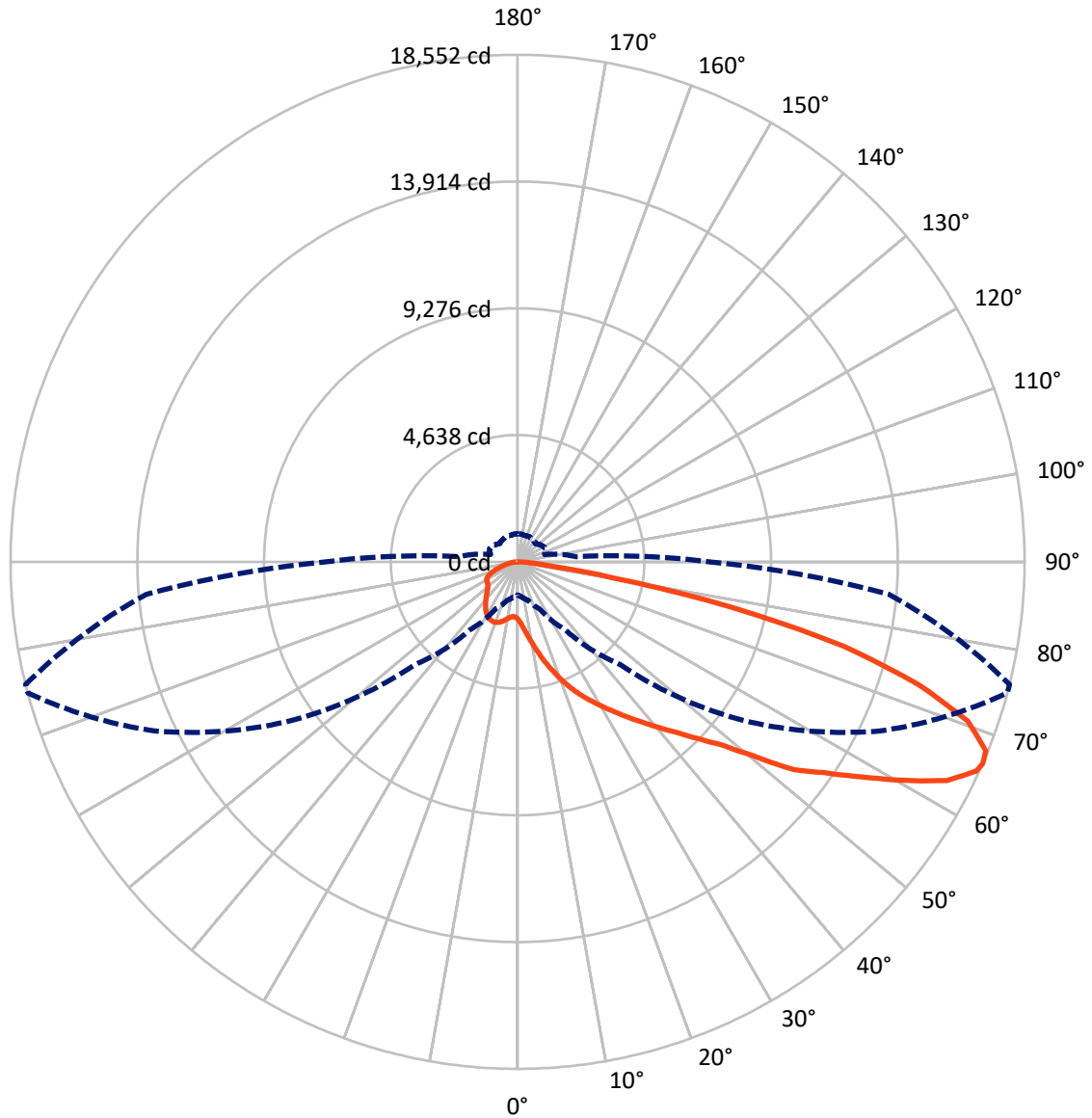
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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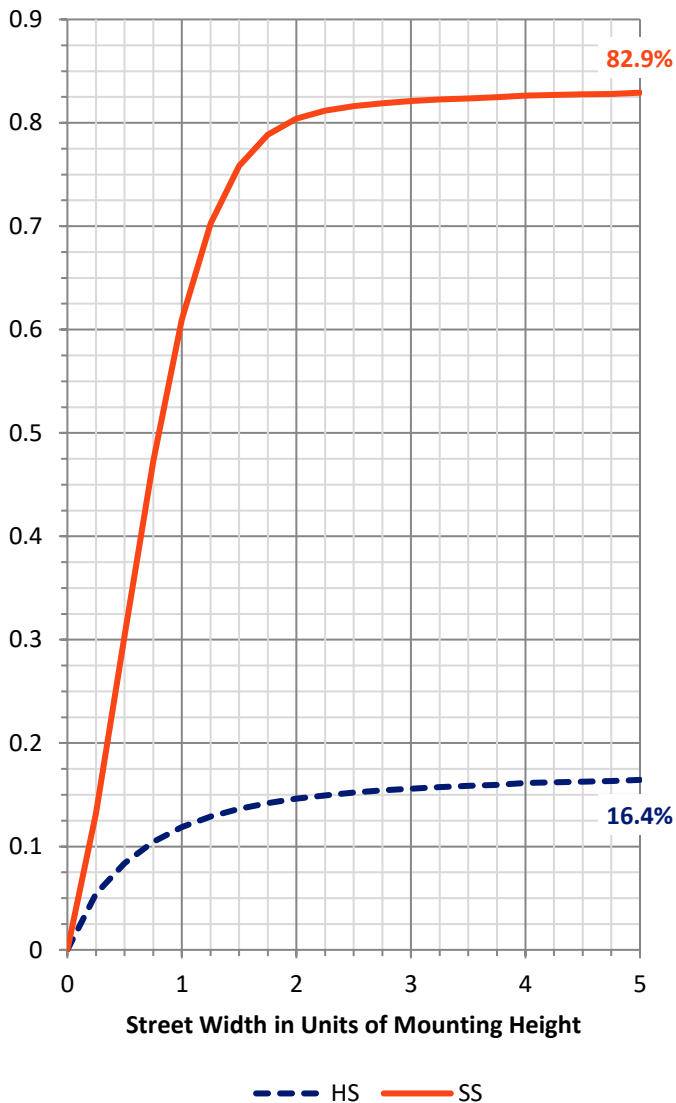
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3868.5	0.0	3868.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19122.1	0.0	19122.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	22990.6	0.0	22990.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	1.1
10°-20°	1002.6	4.4
20°-30°	1948.3	8.5
30°-40°	3180.1	13.8
40°-50°	4344.8	18.9
50°-60°	5060.8	22.0
60°-70°	4537.1	19.7
70°-80°	2292.8	10.0
80°-90°	370.3	1.6
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°	22990.6	100.0
0°-180°	22990.6	100.0

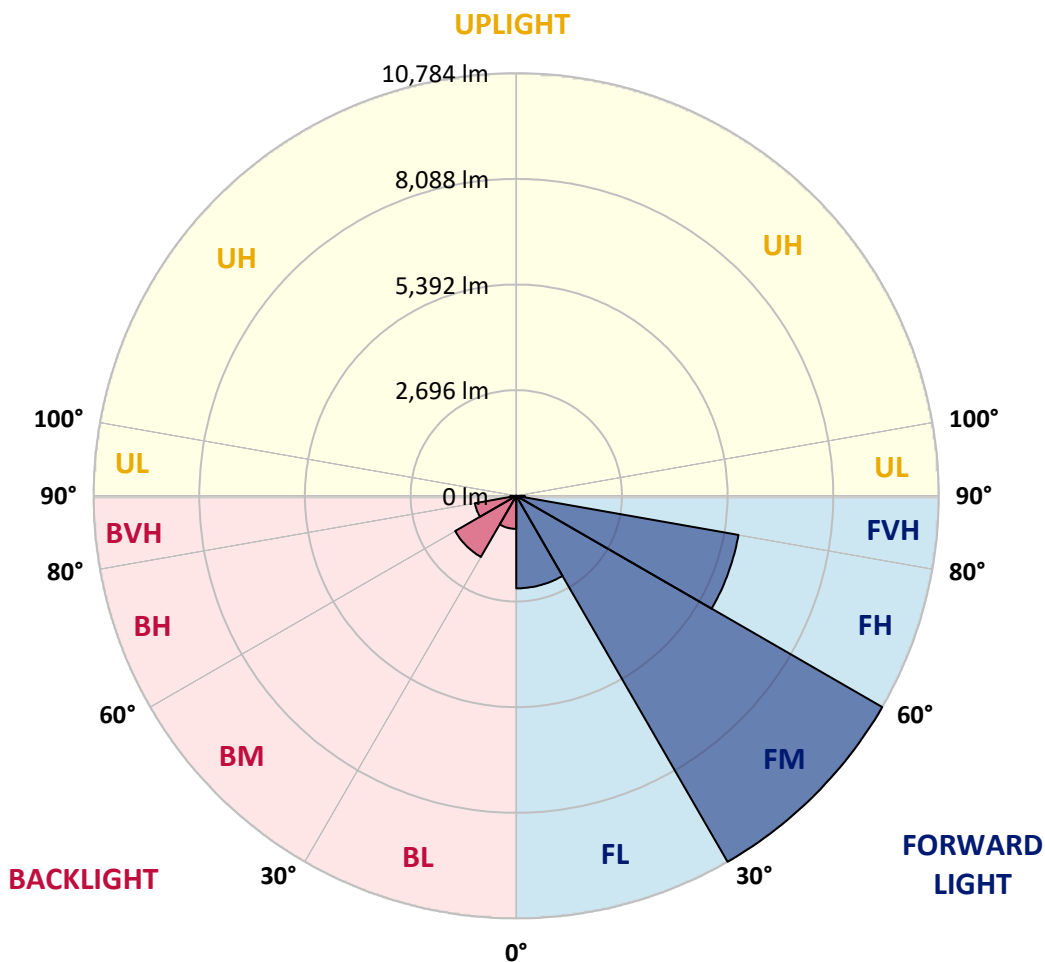


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2361.1	10.3			
FM (30°-60°)	10784.2	46.9			
FH (60°-80°)	5758.2	25.0			G3/7500
FVH (80°-90°)	218.7	1.0			G2/225
BL (0°-30°)	843.7	3.7	B2/1000		
BM (30°-60°)	1801.4	7.8	B2/2500		
BH (60°-80°)	1071.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	151.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5
2.5°	2787.2	2745.1	2741.2	2679.5	2665.4	2547.6	2461.0	2370.4	2267.4	2247.1	2165.9
5°	3580.2	3576.3	3522.5	3421.8	3342.9	3141.6	2942.5	2731.8	2500.7	2463.3	2280.6
7.5°	4293.6	4287.4	4246.0	4137.5	4023.5	3776.1	3492.0	3168.8	2794.2	2738.7	2436.0
10°	4835.2	4832.9	4818.8	4739.2	4642.5	4405.2	4091.5	3650.5	3135.3	3059.6	2630.3
12.5°	5253.6	5258.3	5267.6	5239.5	5193.5	4991.3	4669.8	4160.9	3499.0	3424.1	2846.5
15°	5536.9	5551.0	5599.3	5639.1	5663.3	5539.3	5227.8	4683.1	3906.4	3816.6	3086.1
17.5°	5679.7	5695.4	5778.9	5899.0	6009.9	5997.4	5750.0	5181.0	4297.5	4210.8	3343.7
20°	5803.1	5814.7	5908.4	6052.8	6248.7	6335.4	6196.5	5660.3	4725.9	4622.9	3616.8
22.5°	6160.5	6175.3	6203.5	6285.4	6458.7	6617.9	6550.8	6113.7	5118.6	5022.5	3876.0
25°	6850.5	6868.5	6807.6	6738.1	6770.9	6881.7	6894.2	6527.4	5516.6	5408.1	4154.6
27.5°	7681.7	7707.5	7603.7	7425.0	7268.9	7225.9	7211.1	6866.1	5896.7	5771.0	4430.2
30°	8495.8	8540.3	8405.3	8173.5	7887.0	7685.6	7536.6	7197.8	6271.4	6151.2	4690.1
32.5°	9291.2	9273.2	9077.3	8850.9	8515.3	8263.2	7902.6	7553.7	6692.8	6554.6	4948.4
35°	9835.9	9842.2	9660.3	9391.9	9071.8	8878.2	8392.8	7937.7	7122.9	6995.6	5241.9
37.5°	10299.6	10270.7	10064.6	9814.0	9538.6	9455.9	8966.4	8360.7	7588.9	7450.0	5554.1
40°	10454.1	10420.6	10285.5	10105.2	9884.3	9877.3	9599.4	8840.0	8115.7	7978.3	5906.1
42.5°	10360.4	10317.5	10262.1	10212.9	10145.0	10176.2	10194.2	9401.9	8694.8	8541.1	6313.5
45°	10014.7	9949.9	9988.9	10095.8	10243.4	10419.7	10731.1	10024.0	9343.4	9214.7	6791.9
47.5°	9483.2	9424.6	9546.4	9775.0	10176.2	10622.7	11239.3	10710.8	10117.7	9989.7	7473.3
50°	8735.4	8752.6	8926.6	9342.7	9949.1	10716.3	11865.2	11620.1	11243.2	11123.8	8402.9
52.5°	7508.5	7511.6	8001.7	8684.7	9546.4	10668.0	12212.6	12782.3	12780.0	12635.6	9288.0
55°	6368.9	6438.4	6826.3	7734.0	8893.9	10474.4	12455.4	13347.4	13789.2	13619.8	10113.0
57.5°	5255.9	5296.5	5664.1	6575.8	7962.7	9958.4	12704.3	14025.7	14952.2	14845.2	11138.6
60°	3989.9	4052.4	4432.5	5274.7	6771.7	9042.9	12727.7	14733.6	16342.2	16234.5	12283.6
62.5°	2589.7	2697.4	3053.3	3842.4	5330.9	7726.3	12184.5	15196.4	17659.7	17621.4	13299.8
65°	1488.4	1569.6	1817.0	2425.8	3677.7	6073.1	10892.8	15018.5	18470.6	18448.8	13680.0
66°	1216.0	1266.7	1456.4	1895.9	3034.6	5333.2	10141.9	14643.1	18551.0	18551.9	13636.2
67.5°	972.5	995.2	1080.2	1357.3	2239.3	4227.2	8800.2	13814.9	18451.2	18478.5	13354.5
70°	804.7	816.4	843.0	910.0	1222.3	2549.1	6246.4	11663.1	17448.2	17469.3	12254.7
72.5°	721.9	729.0	739.2	748.5	862.4	1424.4	3815.2	9330.2	15297.9	15325.3	10578.9
75°	654.0	658.0	656.4	657.2	723.5	907.7	1971.5	6966.0	12369.5	12314.8	8104.0
77.5°	574.5	578.4	570.6	572.2	640.0	697.7	981.1	4876.6	8347.5	7961.9	4566.0
80°	485.4	488.6	485.4	490.9	557.3	526.9	570.6	2743.5	3691.0	3491.2	1623.4
82.5°	366.8	380.1	389.5	411.4	459.0	374.7	381.7	1068.5	1123.9	1070.1	498.0
85°	160.8	195.9	293.4	314.6	345.0	224.8	250.6	435.5	457.4	443.3	181.1
87.5°	42.1	46.0	145.1	182.7	191.2	101.4	130.3	198.2	209.1	198.2	60.1
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°	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5
2.5°	2123.0	2084.7	2016.1	1955.1	1909.1	1877.9	1846.7	1831.0	1821.7	1812.3	1813.9
5°	2190.9	2113.6	1995.7	1912.3	1865.4	1835.7	1820.2	1813.9	1810.0	1800.6	1800.6
7.5°	2293.1	2183.8	2021.6	1935.7	1899.0	1876.3	1867.0	1863.8	1859.2	1848.3	1849.8
10°	2421.9	2269.0	2075.4	1991.8	1958.3	1933.3	1920.0	1915.4	1906.8	1894.3	1895.9
12.5°	2573.3	2374.3	2146.4	2059.0	2018.4	1984.8	1963.0	1949.7	1934.9	1918.5	1919.3
15°	2738.7	2489.0	2222.9	2119.1	2063.7	2016.8	1981.7	1959.0	1935.7	1915.4	1914.6
17.5°	2906.6	2599.9	2281.5	2151.9	2076.9	2015.3	1967.6	1932.5	1903.6	1878.7	1876.3
20°	3087.7	2699.8	2314.2	2148.7	2051.9	1978.6	1915.4	1871.7	1839.6	1814.7	1810.7
22.5°	3271.9	2793.4	2319.6	2116.8	1996.5	1906.8	1840.5	1792.0	1759.2	1733.5	1724.1
25°	3440.5	2866.0	2297.0	2055.1	1919.3	1822.5	1757.7	1708.6	1682.0	1651.5	1642.2
27.5°	3594.2	2916.8	2251.7	1976.3	1832.6	1737.4	1676.5	1634.4	1605.5	1582.0	1574.3
30°	3732.3	2944.1	2177.6	1882.6	1743.7	1657.0	1605.5	1576.6	1551.7	1522.0	1516.6
32.5°	3863.5	2944.1	2082.4	1780.4	1655.5	1586.0	1555.6	1537.6	1509.5	1480.6	1472.8
35°	3994.7	2926.1	1970.0	1673.4	1574.3	1535.3	1533.7	1512.6	1469.7	1430.7	1420.5
37.5°	4132.8	2889.5	1843.5	1573.5	1507.9	1512.6	1525.9	1479.0	1418.2	1362.8	1347.9
40°	4288.8	2838.7	1712.5	1486.8	1452.6	1502.5	1504.8	1430.7	1312.0	1261.3	1248.0
42.5°	4472.3	2787.9	1590.7	1410.4	1408.8	1472.0	1465.0	1326.1	1255.1	1229.3	1222.3
45°	4713.4	2759.1	1475.2	1337.8	1374.5	1422.8	1397.1	1268.3	1238.7	1223.9	1217.6
47.5°	5093.6	2774.0	1369.0	1280.0	1340.1	1373.7	1270.6	1244.9	1223.9	1205.9	1199.6
50°	5569.7	2765.3	1283.1	1240.3	1301.1	1322.1	1213.7	1214.5	1203.6	1183.3	1173.8
52.5°	5927.9	2698.2	1227.8	1217.6	1266.7	1230.9	1177.8	1184.8	1179.3	1149.7	1139.6
55°	6273.7	2640.5	1199.6	1209.0	1241.8	1116.9	1135.6	1152.8	1147.4	1118.5	1113.8
57.5°	6703.8	2629.5	1182.5	1211.4	1220.7	1059.9	1095.0	1117.7	1113.8	1101.3	1098.9
60°	7230.6	2632.6	1166.9	1215.2	1197.3	1017.8	1056.8	1085.7	1088.0	1085.7	1084.1
62.5°	7520.2	2547.6	1127.8	1204.3	1156.0	981.1	1017.0	1059.2	1059.9	1064.6	1063.8
65°	7274.3	2293.1	1055.3	1166.1	1086.5	950.6	982.7	1028.7	1017.0	1038.1	1038.1
66°	7035.5	2146.4	1019.3	1141.1	1056.8	938.9	971.7	1013.1	998.2	1027.1	1027.1
67.5°	6547.7	1899.0	954.6	1088.0	1014.6	922.5	959.2	987.3	967.0	1010.0	1006.8
70°	5656.4	1469.0	824.2	967.8	945.1	898.4	942.1	935.8	906.2	971.7	959.2
72.5°	4768.9	1116.1	661.9	810.2	839.8	867.9	917.9	870.3	832.8	878.8	851.5
75°	3700.4	839.0	523.0	629.9	709.5	820.3	889.0	794.5	740.7	736.0	721.2
77.5°	2000.4	576.0	414.4	480.8	563.5	761.0	869.5	713.4	632.2	613.5	601.8
80°	792.2	374.7	301.3	364.5	394.1	675.1	822.6	618.9	521.4	502.7	484.7
82.5°	327.1	221.7	194.3	244.3	256.8	577.6	738.3	507.3	402.7	557.3	591.6
85°	140.5	121.8	115.5	126.4	145.1	405.0	587.7	387.2	434.8	387.9	308.3
87.5°	42.1	51.5	49.2	48.3	53.1	96.8	313.0	215.4	319.2	121.0	90.5
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)