

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: P594894

Luminaire Tested: **ISS-PA1F-750-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-750-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11750 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

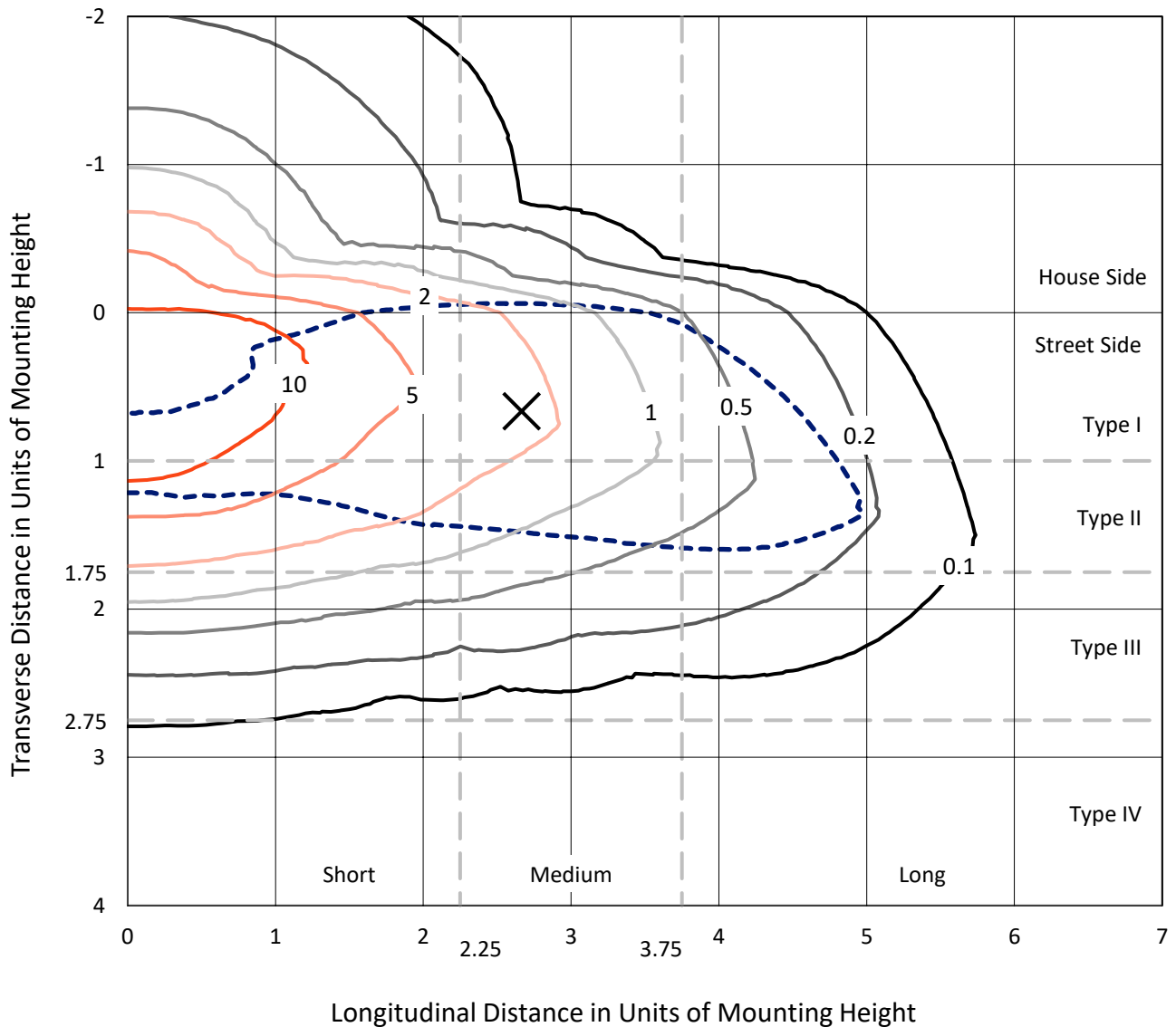
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

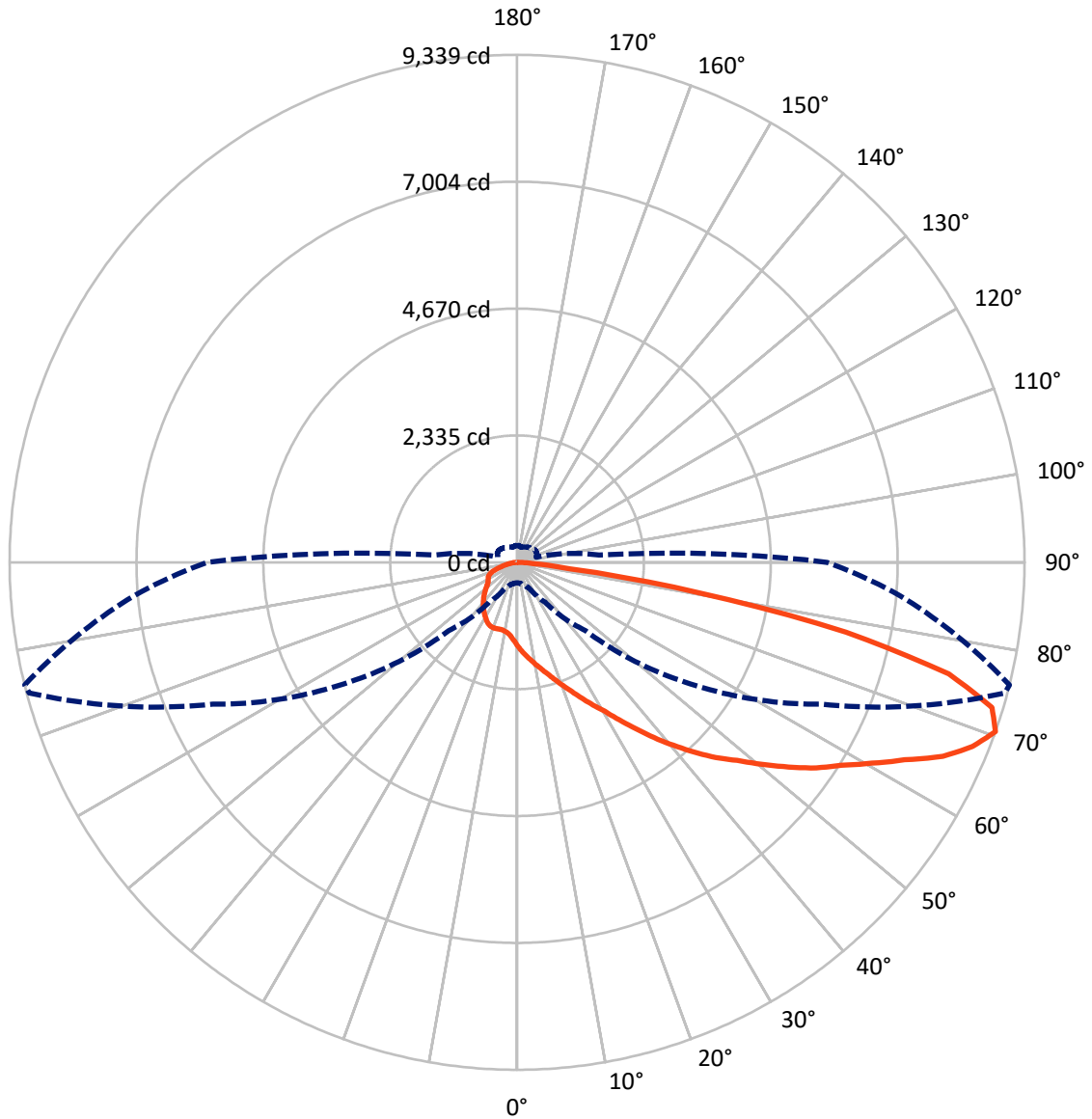
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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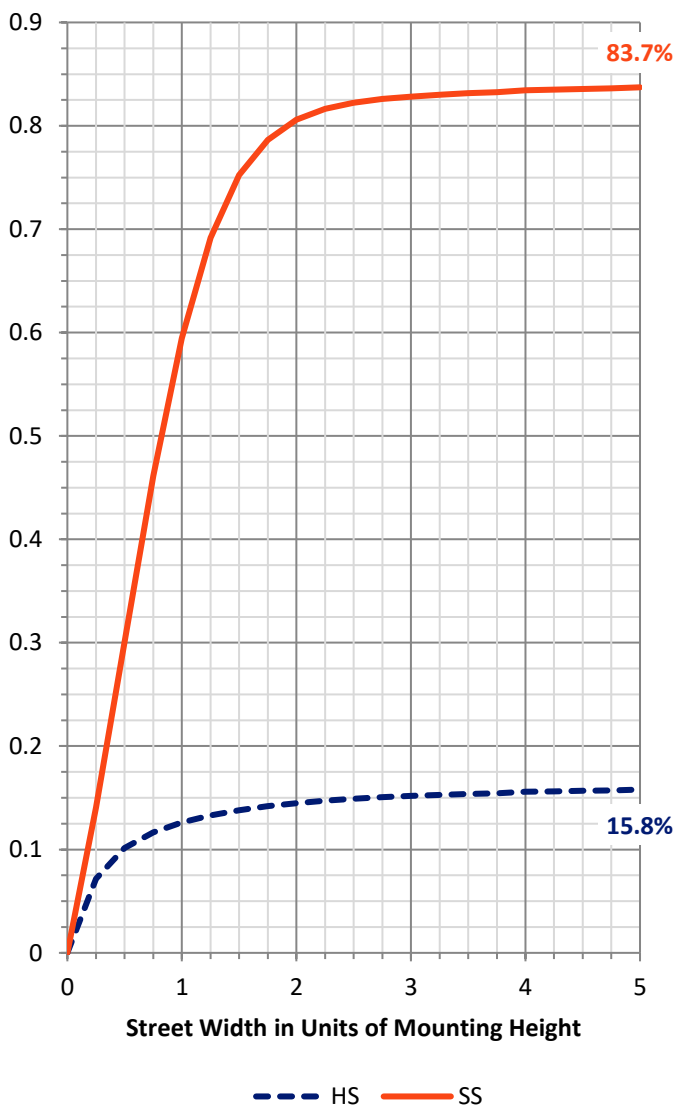
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1884.6	0.0	1884.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	9865.4	0.0	9865.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	11750.0	0.0	11750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	1.3
10°-20°	495.8	4.2
20°-30°	913.6	7.8
30°-40°	1530.7	13.0
40°-50°	2175.0	18.5
50°-60°	2511.2	21.4
60°-70°	2308.5	19.6
70°-80°	1455.6	12.4
80°-90°	209.4	1.8
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°	11750.0	100.0
0°-180°	11750.0	100.0

Coefficient of Utilization

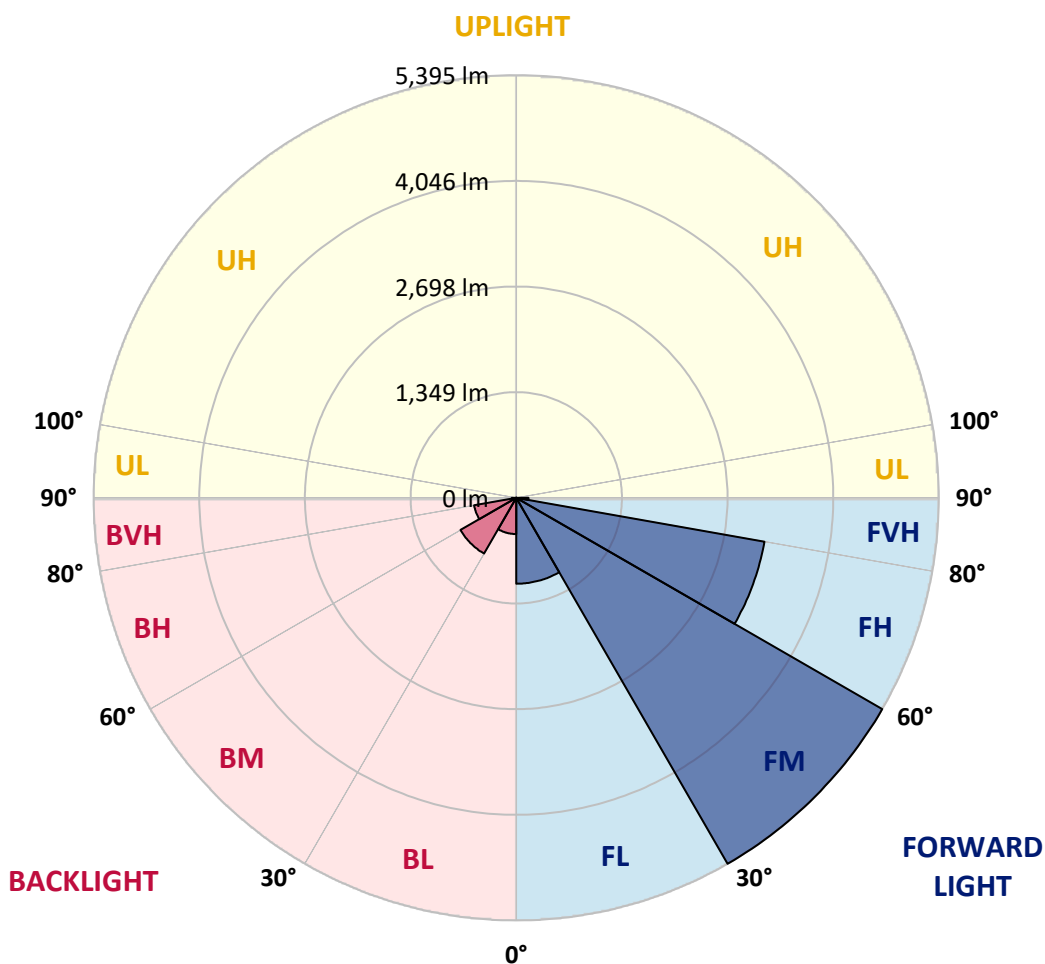


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.0	9.3			
FM (30°-60°)	5395.3	45.9			
FH (60°-80°)	3217.9	27.4			G2/5000
FVH (80°-90°)	155.2	1.3			G2/225
BL (0°-30°)	462.6	3.9	B1/500		
BM (30°-60°)	821.6	7.0	B1/1000		
BH (60°-80°)	546.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1855.4	1852.5	1844.1	1829.9	1818.6	1784.7	1739.4	1699.8	1640.4	1634.8	1575.4
5°	2022.2	2010.9	2010.9	1996.8	1982.6	1945.9	1889.3	1818.6	1733.7	1728.1	1615.0
7.5°	2101.4	2104.3	2098.6	2087.3	2090.1	2059.0	2008.1	1937.4	1821.4	1815.8	1668.7
10°	2214.6	2211.7	2200.4	2191.9	2189.1	2160.8	2115.6	2050.5	1928.9	1917.6	1730.9
12.5°	2324.9	2316.4	2319.2	2316.4	2310.7	2282.4	2240.0	2175.0	2025.1	2019.4	1807.3
15°	2387.1	2384.3	2404.1	2409.7	2432.3	2406.9	2370.1	2296.6	2160.8	2138.2	1897.8
17.5°	2426.7	2423.9	2443.7	2488.9	2531.3	2531.3	2520.0	2440.8	2290.9	2274.0	1999.6
20°	2494.6	2505.9	2539.8	2576.6	2638.8	2650.1	2647.3	2613.4	2440.8	2423.9	2112.7
22.5°	2630.3	2624.7	2652.9	2709.5	2766.1	2783.0	2785.9	2785.9	2613.4	2582.2	2228.7
25°	2921.6	2907.5	2884.9	2879.2	2947.1	2944.3	2935.8	2955.6	2794.4	2771.7	2361.6
27.5°	3476.0	3444.9	3357.2	3181.8	3142.2	3156.4	3114.0	3116.8	3000.8	2972.5	2474.8
30°	4002.0	3987.9	3905.9	3693.8	3470.3	3391.1	3317.6	3286.5	3229.9	3181.8	2596.4
32.5°	4477.2	4480.0	4381.0	4149.1	3920.0	3671.1	3543.9	3478.8	3501.4	3459.0	2763.3
35°	4799.6	4774.2	4712.0	4556.4	4307.5	4069.9	3826.7	3682.4	3804.1	3756.0	2930.1
37.5°	4989.1	4969.3	4918.4	4808.1	4683.7	4454.6	4146.3	3925.7	4163.3	4092.6	3142.2
40°	5085.3	5057.0	5006.1	4960.8	4901.4	4777.0	4505.5	4202.9	4491.3	4429.1	3351.5
42.5°	5096.6	5076.8	5048.5	5025.9	5045.7	5028.7	4856.2	4525.3	4836.4	4768.5	3591.9
45°	5088.1	5102.3	5068.3	5028.7	5068.3	5212.6	5212.6	4847.7	5178.6	5127.7	3821.0
47.5°	5093.8	5079.6	5068.3	5057.0	5062.7	5260.6	5458.6	5150.3	5506.7	5447.3	4089.7
50°	4859.0	4878.8	4975.0	5017.4	5042.9	5272.0	5656.6	5478.4	5914.0	5840.4	4389.5
52.5°	4112.4	4123.7	4562.1	4878.8	4980.6	5226.7	5795.2	5843.3	6315.6	6259.0	4712.0
55°	3167.7	3227.1	3642.9	4417.8	4839.2	5150.3	5837.6	6080.8	6725.7	6680.4	5037.2
57.5°	2607.7	2616.2	2856.6	3549.5	4392.4	5079.6	5880.0	6298.6	7093.4	7042.5	5376.6
60°	2163.7	2143.9	2290.9	2737.8	3648.5	4796.8	5888.5	6471.2	7520.5	7503.5	5727.3
62.5°	1589.5	1612.1	1753.5	2132.5	2853.8	4222.7	5846.1	6618.2	8029.6	8006.9	6117.6
65°	975.8	1004.0	1176.6	1524.5	2160.8	3351.5	5568.9	6694.6	8564.1	8615.0	6539.0
67.5°	517.6	537.4	639.2	922.0	1482.0	2554.0	4901.4	6598.4	9016.6	9039.3	6943.5
70°	379.0	381.8	415.8	520.4	893.7	1776.2	3903.1	6179.8	9293.8	9339.1	7076.4
72.5°	330.9	333.7	347.9	373.3	486.5	1083.2	2797.2	5450.1	9177.8	9138.2	6853.0
75°	299.8	299.8	311.1	319.6	356.4	599.6	1714.0	4460.2	8292.6	8204.9	5843.3
77.5°	257.4	257.4	268.7	280.0	308.3	387.5	896.6	3306.3	6341.1	6191.2	3996.4
80°	206.5	206.5	220.6	234.7	271.5	291.3	438.4	2211.7	3625.9	3405.3	1818.6
82.5°	141.4	152.7	178.2	195.2	226.3	206.5	257.4	956.0	1142.6	989.9	410.1
85°	84.8	90.5	127.3	147.1	169.7	110.3	158.4	367.7	342.2	299.8	93.3
87.5°	8.5	14.1	50.9	59.4	59.4	31.1	67.9	87.7	99.0	101.8	22.6
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°	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4	1541.4
2.5°	1541.4	1507.5	1442.4	1383.0	1323.6	1284.0	1244.5	1230.3	1210.5	1196.4	1207.7
5°	1555.6	1484.9	1360.4	1255.8	1185.1	1131.3	1105.9	1091.7	1080.4	1077.6	1074.8
7.5°	1572.5	1467.9	1301.0	1185.1	1117.2	1091.7	1086.1	1086.1	1086.1	1088.9	1091.7
10°	1609.3	1473.5	1269.9	1145.5	1108.7	1103.0	1105.9	1117.2	1117.2	1120.0	1120.0
12.5°	1651.7	1487.7	1247.3	1139.8	1117.2	1120.0	1122.8	1128.5	1128.5	1137.0	1134.1
15°	1714.0	1516.0	1244.5	1145.5	1125.7	1120.0	1120.0	1117.2	1117.2	1117.2	1122.8
17.5°	1793.1	1555.6	1247.3	1145.5	1117.2	1105.9	1097.4	1088.9	1077.6	1083.2	1077.6
20°	1872.3	1603.6	1247.3	1131.3	1094.6	1066.3	1040.8	1026.7	1012.5	1009.7	1012.5
22.5°	1971.3	1660.2	1233.1	1100.2	1046.5	1006.9	970.1	950.3	927.7	919.2	913.5
25°	2056.2	1705.5	1204.9	1055.0	992.7	936.2	888.1	854.1	825.9	820.2	820.2
27.5°	2143.9	1745.1	1162.4	998.4	916.4	854.1	800.4	758.0	729.7	726.9	724.0
30°	2225.9	1779.0	1105.9	936.2	848.5	775.0	712.7	676.0	650.5	636.4	627.9
32.5°	2333.3	1824.3	1052.1	873.9	769.3	695.8	639.2	608.1	574.1	551.5	543.0
35°	2469.1	1878.0	992.7	806.1	698.6	625.1	591.1	545.9	503.4	478.0	469.5
37.5°	2621.8	1954.4	930.5	735.4	627.9	574.1	554.3	483.6	438.4	429.9	427.1
40°	2811.3	2027.9	859.8	661.8	560.0	545.9	511.9	438.4	415.8	412.9	410.1
42.5°	3000.8	2107.1	791.9	588.3	506.3	511.9	463.8	427.1	407.3	401.6	398.8
45°	3221.4	2186.3	724.0	523.2	463.8	463.8	438.4	415.8	398.8	393.1	393.1
47.5°	3453.4	2265.5	650.5	466.7	432.7	415.8	418.6	401.6	390.3	384.6	381.8
50°	3744.7	2341.8	582.6	427.1	412.9	390.3	398.8	387.5	381.8	376.2	373.3
52.5°	4019.0	2375.8	520.4	404.4	401.6	379.0	381.8	376.2	373.3	364.9	362.0
55°	4287.7	2367.3	472.3	393.1	387.5	376.2	370.5	367.7	364.9	356.4	353.5
57.5°	4587.5	2356.0	441.2	390.3	379.0	367.7	367.7	359.2	347.9	347.9	347.9
60°	4898.6	2319.2	427.1	390.3	376.2	367.7	362.0	353.5	342.2	345.1	342.2
62.5°	5249.3	2248.5	418.6	398.8	379.0	364.9	359.2	347.9	333.7	336.6	333.7
65°	5557.6	2104.3	412.9	407.3	384.6	367.7	353.5	339.4	322.4	325.3	322.4
67.5°	5766.9	1861.0	396.0	412.9	393.1	364.9	347.9	328.1	305.5	316.8	313.9
70°	5707.5	1513.1	364.9	401.6	401.6	367.7	339.4	313.9	288.5	311.1	302.6
72.5°	5246.5	1137.0	305.5	362.0	396.0	367.7	322.4	291.3	268.7	282.8	265.9
75°	4307.5	772.1	243.2	288.5	370.5	370.5	308.3	268.7	240.4	231.9	226.3
77.5°	2686.9	480.8	189.5	212.1	311.1	367.7	294.1	240.4	200.8	195.2	189.5
80°	1063.4	257.4	149.9	152.7	229.1	336.6	274.3	203.6	161.2	155.6	144.2
82.5°	243.2	130.1	104.6	101.8	141.4	274.3	248.9	161.2	124.4	124.4	104.6
85°	73.5	67.9	67.9	65.1	70.7	141.4	192.3	110.3	84.8	59.4	50.9
87.5°	19.8	28.3	25.5	22.6	22.6	19.8	62.2	28.3	17.0	8.5	5.7
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)