

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: P594887

Luminaire Tested: **ISS-PA1F-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-740-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11600 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

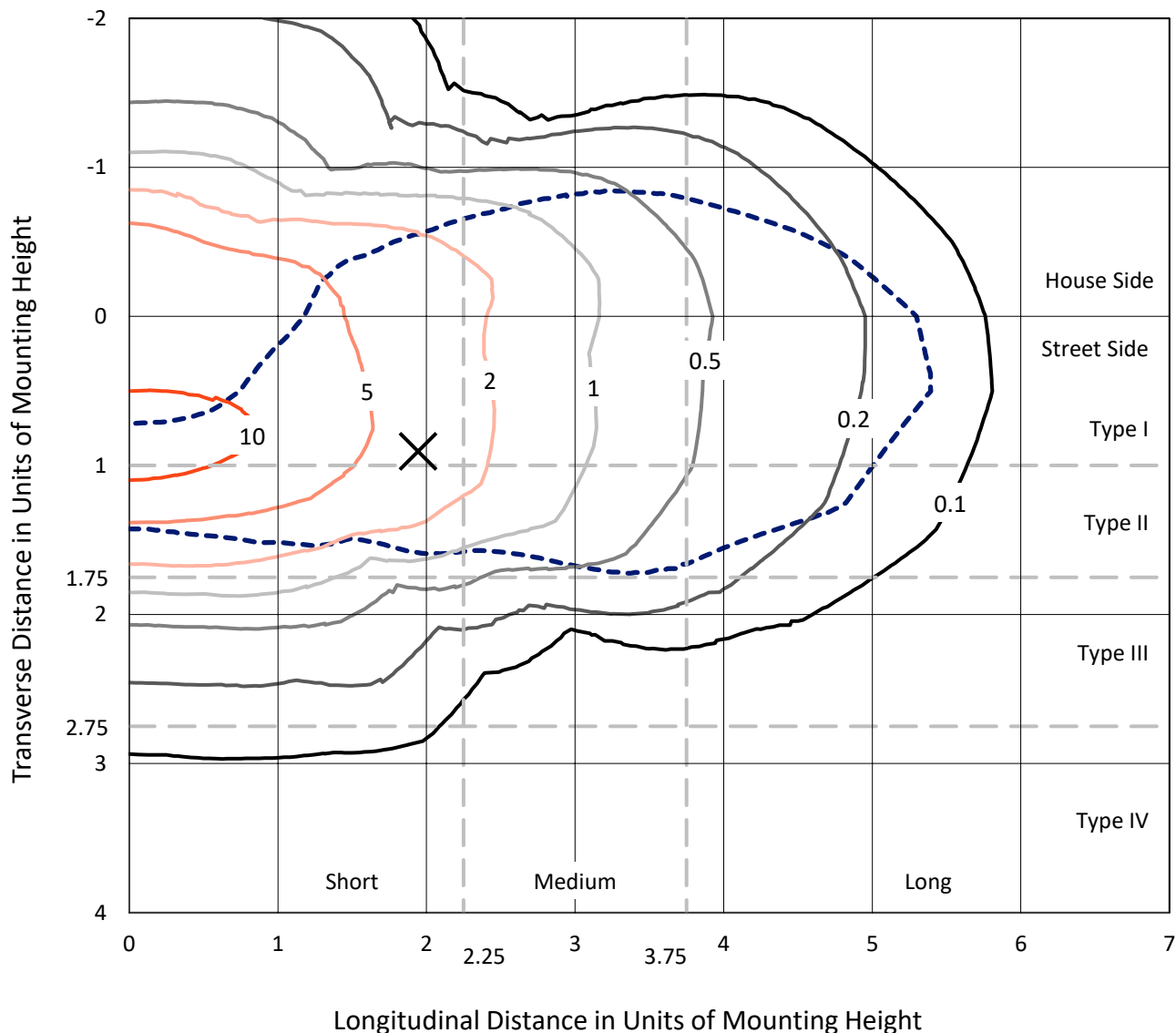
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

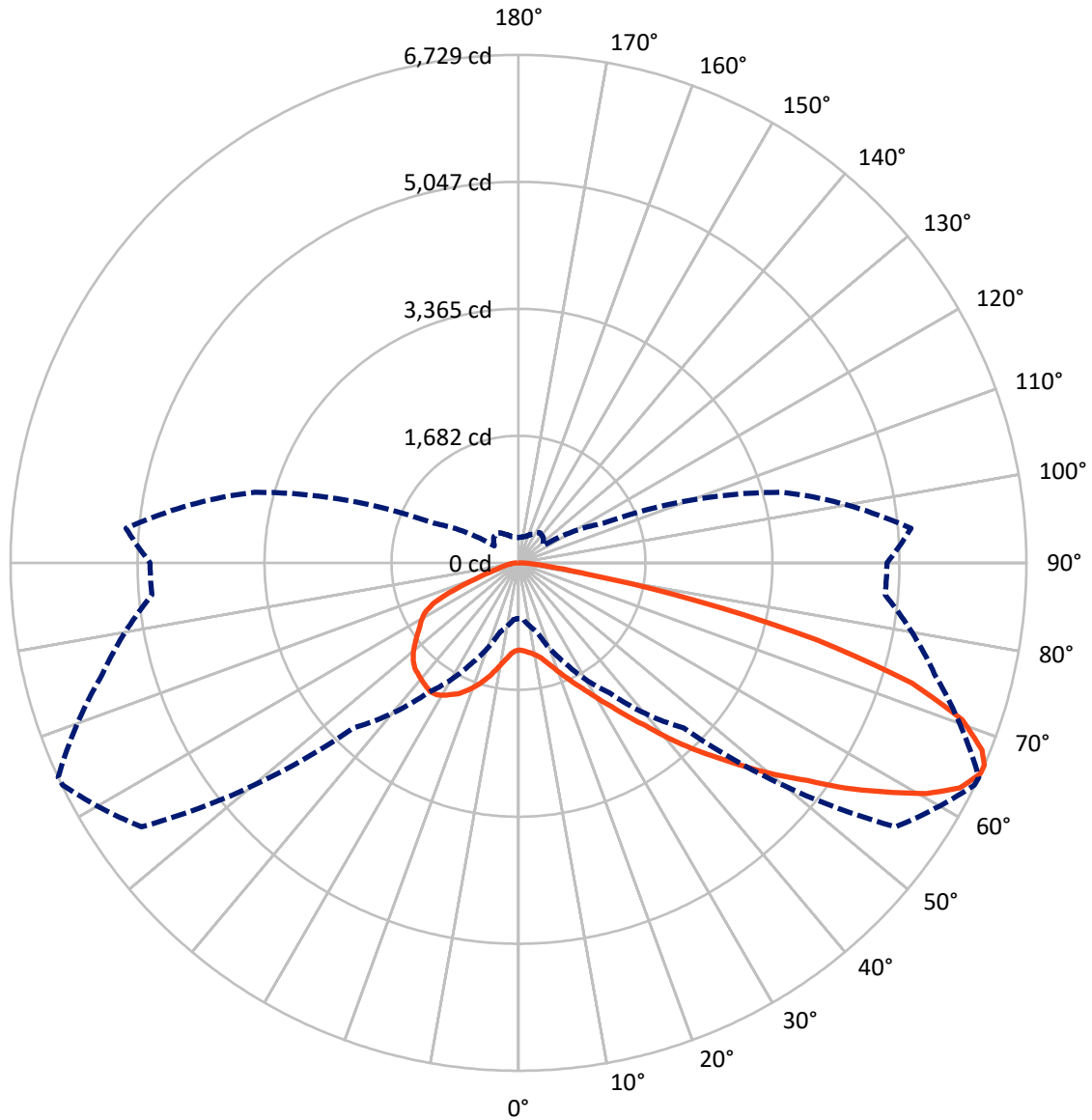
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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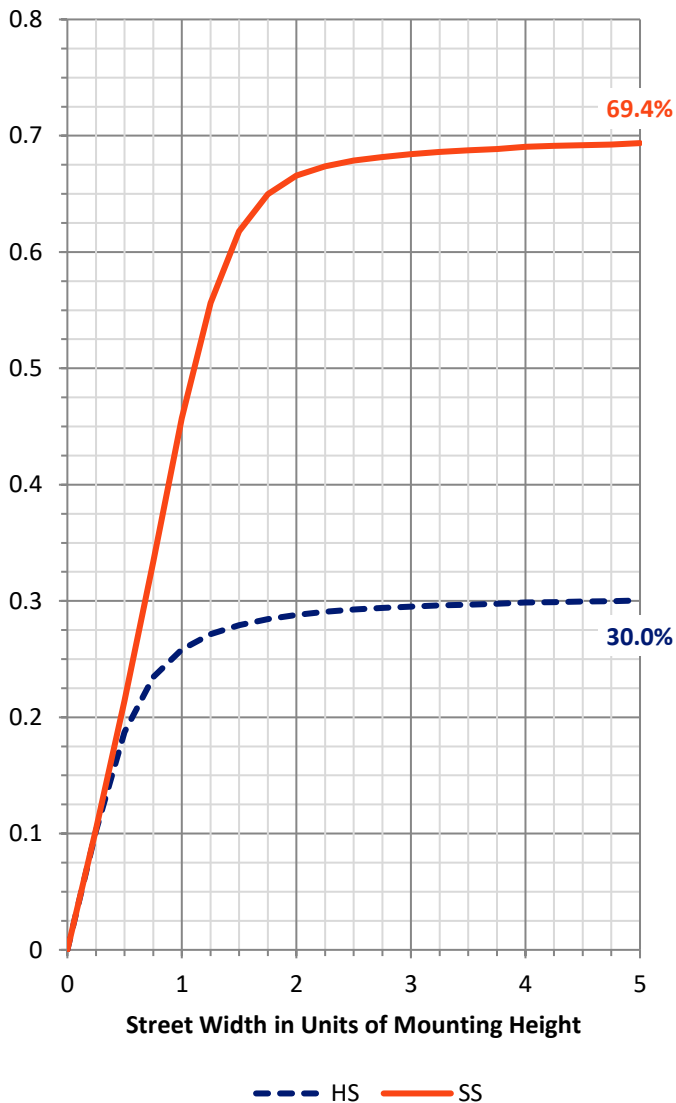
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3522.2	0.0	3522.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	8077.8	0.0	8077.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	11600.0	0.0	11600.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.0
10°-20°	411.1	3.5
20°-30°	805.1	6.9
30°-40°	1315.7	11.3
40°-50°	2088.3	18.0
50°-60°	2685.8	23.2
60°-70°	2422.1	20.9
70°-80°	1502.2	13.0
80°-90°	251.7	2.2
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°	11600.0	100.0
0°-180°	11600.0	100.0



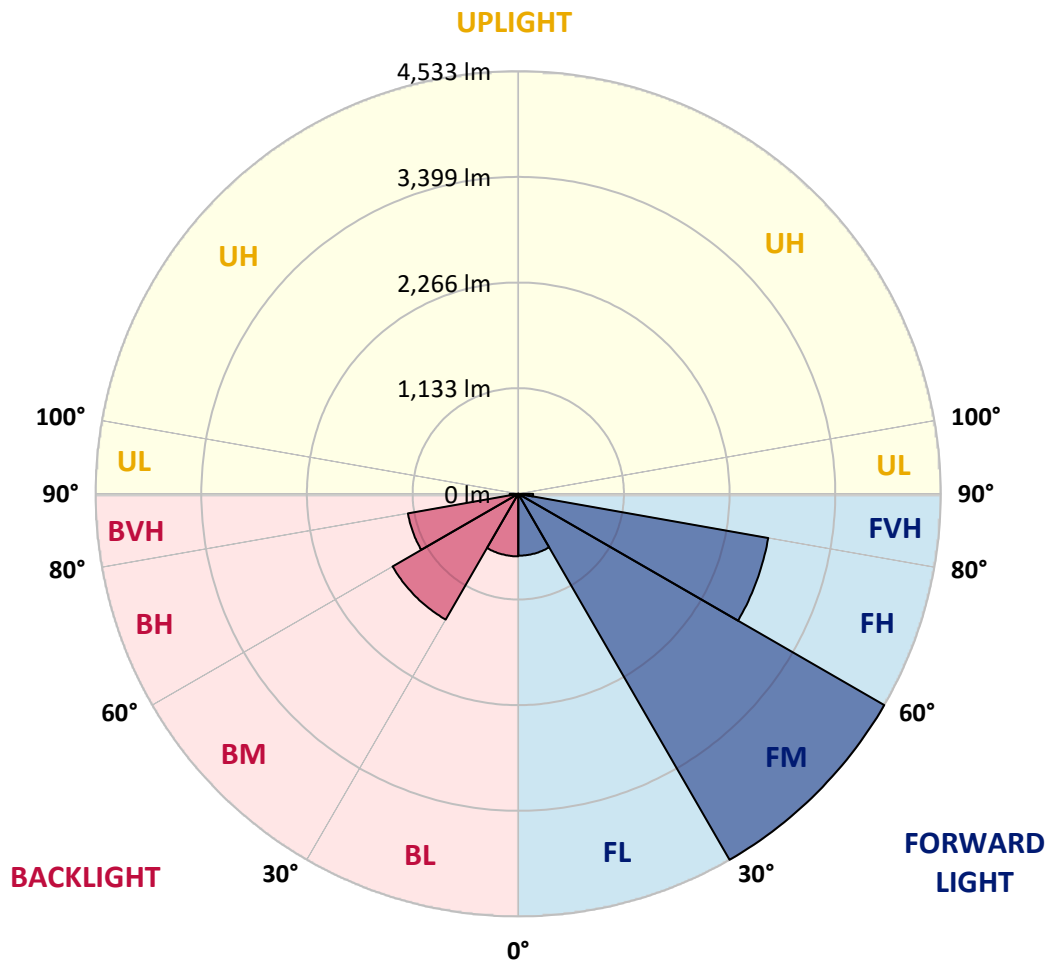
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.4	5.7			
FM (30°-60°)	4532.6	39.1			
FH (60°-80°)	2722.5	23.5			G2/5000
FVH (80°-90°)	159.2	1.4			G2/225
BL (0°-30°)	670.9	5.8	B2/1000		
BM (30°-60°)	1557.1	13.4	B2/2500		
BH (60°-80°)	1201.8	10.4	B3/2500		G3/2500
BVH (80°-90°)	92.5	0.8			G1/100
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°	64°	65°	75°	85°
0°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1159.1	1161.9	1164.7	1159.1	1164.7	1167.5	1161.9	1161.9	1164.7	1159.1	1159.1
5°	1150.6	1153.4	1159.1	1161.9	1173.1	1178.7	1181.6	1181.6	1184.4	1181.6	1184.4
7.5°	1128.1	1128.1	1139.4	1145.0	1161.9	1181.6	1192.8	1209.7	1209.7	1212.5	1220.9
10°	1150.6	1150.6	1159.1	1167.5	1181.6	1198.4	1215.3	1235.0	1240.6	1260.3	1271.6
12.5°	1184.4	1190.0	1201.3	1212.5	1229.4	1249.1	1263.1	1282.8	1285.7	1305.3	1327.9
15°	1240.6	1246.3	1251.9	1266.0	1288.5	1313.8	1339.1	1353.2	1358.8	1370.1	1386.9
17.5°	1325.0	1330.7	1333.5	1341.9	1358.8	1392.6	1429.1	1440.4	1446.0	1446.0	1460.1
20°	1468.5	1465.7	1460.1	1443.2	1443.2	1474.1	1524.8	1544.5	1550.1	1538.8	1530.4
22.5°	1634.5	1631.7	1609.2	1589.5	1575.4	1581.0	1631.7	1665.4	1662.6	1640.1	1606.4
25°	1851.1	1856.7	1820.2	1769.5	1727.3	1716.1	1747.0	1780.8	1786.4	1744.2	1687.9
27.5°	2109.9	2101.5	2081.8	2000.2	1918.6	1868.0	1884.9	1921.4	1924.3	1879.2	1789.2
30°	2413.8	2399.7	2349.1	2264.7	2138.1	2067.7	2053.7	2084.6	2093.1	2017.1	1887.7
32.5°	2751.4	2737.3	2672.6	2543.2	2405.3	2287.2	2242.2	2284.4	2278.7	2191.5	2011.5
35°	3159.3	3156.5	3038.3	2878.0	2703.5	2546.0	2484.1	2484.1	2501.0	2371.6	2169.0
37.5°	3705.0	3727.6	3553.1	3302.8	3058.0	2847.0	2742.9	2737.3	2740.1	2599.4	2346.2
40°	4197.4	4188.9	4087.6	3854.1	3496.9	3226.8	3072.1	3038.3	3046.7	2866.7	2576.9
42.5°	4481.5	4489.9	4464.6	4363.3	4051.1	3710.7	3446.2	3356.2	3359.0	3134.0	2796.4
45°	4658.7	4667.2	4664.4	4715.0	4591.2	4270.5	3893.5	3685.4	3674.1	3437.8	3055.2
47.5°	4760.0	4765.6	4802.2	4906.3	5007.6	4934.4	4388.7	4051.1	4028.6	3721.9	3314.0
50°	4647.5	4650.3	4796.6	5044.1	5291.7	5514.0	4895.0	4414.0	4408.4	4037.0	3567.2
52.5°	4056.7	4107.3	4430.9	4948.5	5502.7	5924.7	5480.2	4841.6	4793.8	4335.2	3820.4
55°	3311.2	3333.7	3705.0	4363.3	5463.3	6177.9	5921.9	5303.0	5269.2	4667.2	4068.0
57.5°	2585.4	2607.9	3049.6	3598.1	4861.3	6163.8	6234.2	5800.9	5725.0	4956.9	4315.5
60°	1668.3	1738.6	2250.6	2925.8	3935.7	5736.2	6391.7	6279.2	6208.8	5243.9	4526.5
62.5°	1133.7	1145.0	1465.7	2169.0	2945.5	4661.5	6380.4	6574.6	6563.3	5530.8	4737.5
65°	737.1	753.9	948.1	1468.5	2107.1	3094.6	6099.1	6718.0	6729.3	5708.1	4875.4
66°	624.5	635.8	784.9	1235.0	1845.5	2453.2	5851.6	6706.8	6729.3	5789.7	4917.6
67.5°	543.0	551.4	627.4	911.5	1507.9	1763.9	5207.3	6557.7	6622.4	5865.6	4971.0
70°	467.0	478.3	548.6	621.7	1077.5	1029.6	3297.1	6175.1	6239.8	5902.2	5004.8
72.5°	385.4	393.9	464.2	562.6	782.1	692.1	1454.4	5286.1	5449.3	5767.2	4951.3
75°	303.8	309.5	374.2	469.8	599.2	540.1	633.0	3876.7	4082.0	5083.5	4743.1
77.5°	236.3	239.1	289.8	365.7	548.6	419.2	391.0	1887.7	2388.4	3927.3	4177.7
80°	163.2	168.8	213.8	275.7	402.3	332.0	261.6	737.1	936.8	2607.9	3167.7
82.5°	106.9	109.7	146.3	208.2	267.3	317.9	171.6	357.3	393.9	1201.3	1372.9
85°	73.1	73.1	104.1	129.4	182.9	211.0	112.5	188.5	205.4	455.7	166.0
87.5°	36.6	36.6	50.6	67.5	87.2	81.6	67.5	67.5	67.5	149.1	47.8
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°	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2	1156.2
2.5°	1161.9	1161.9	1164.7	1167.5	1170.3	1170.3	1173.1	1173.1	1170.3	1173.1	1175.9
5°	1187.2	1190.0	1195.6	1204.1	1218.1	1232.2	1246.3	1254.7	1263.1	1266.0	1260.3
7.5°	1226.6	1232.2	1251.9	1274.4	1296.9	1330.7	1350.4	1361.6	1367.2	1372.9	1367.2
10°	1277.2	1288.5	1316.6	1356.0	1395.4	1437.6	1460.1	1477.0	1479.8	1485.4	1479.8
12.5°	1336.3	1356.0	1398.2	1454.4	1502.3	1544.5	1561.4	1550.1	1524.8	1513.5	1510.7
15°	1406.6	1426.3	1485.4	1555.7	1612.0	1631.7	1606.4	1569.8	1541.7	1538.8	1536.0
17.5°	1468.5	1496.6	1578.2	1651.4	1704.8	1685.1	1617.6	1595.1	1586.7	1597.9	1595.1
20°	1547.3	1569.8	1651.4	1741.4	1769.5	1693.6	1645.7	1631.7	1623.2	1623.2	1617.6
22.5°	1612.0	1628.9	1727.3	1825.8	1808.9	1699.2	1665.4	1637.3	1609.2	1606.4	1597.9
25°	1687.9	1693.6	1797.7	1904.6	1814.5	1704.8	1645.7	1597.9	1569.8	1561.4	1564.2
27.5°	1758.3	1772.3	1862.4	1958.0	1800.5	1673.9	1578.2	1516.3	1474.1	1471.3	1471.3
30°	1848.3	1848.3	1929.9	2017.1	1769.5	1595.1	1468.5	1378.5	1344.7	1341.9	1336.3
32.5°	1949.6	1932.7	2011.5	2059.3	1702.0	1488.2	1319.4	1218.1	1164.7	1153.4	1145.0
35°	2090.2	2053.7	2109.9	2067.7	1634.5	1336.3	1130.9	1015.6	976.2	959.3	959.3
37.5°	2253.4	2200.0	2259.0	2042.4	1530.4	1159.1	934.0	846.8	804.6	779.3	787.7
40°	2444.7	2377.2	2411.0	2014.3	1417.9	962.1	770.8	717.4	666.7	633.0	633.0
42.5°	2669.8	2557.2	2582.6	1986.2	1257.5	790.5	666.7	630.2	590.8	557.0	565.5
45°	2886.4	2776.7	2751.4	1958.0	1088.7	675.2	624.5	599.2	562.6	523.3	523.3
47.5°	3136.8	2996.1	2900.5	1907.4	922.7	638.6	635.8	599.2	528.9	472.6	467.0
50°	3373.1	3243.7	3035.5	1831.4	829.9	669.6	633.0	545.8	478.3	441.7	438.9
52.5°	3623.5	3488.4	3145.2	1738.6	782.1	655.5	582.3	500.8	450.1	413.5	405.1
55°	3871.0	3800.7	3243.7	1648.6	706.1	610.5	540.1	472.6	419.2	385.4	379.8
57.5°	4152.4	4124.2	3328.1	1558.5	588.0	554.2	509.2	452.9	402.3	377.0	374.2
60°	4397.1	4495.6	3429.3	1491.0	500.8	512.0	495.1	450.1	413.5	385.4	385.4
62.5°	4655.9	4852.8	3519.4	1403.8	436.1	486.7	497.9	447.3	399.5	374.2	374.2
65°	4881.0	5218.6	3612.2	1243.5	391.0	467.0	489.5	416.4	360.1	340.4	334.8
66°	4976.6	5322.7	3640.3	1145.0	374.2	452.9	475.4	399.5	343.2	326.3	323.5
67.5°	5089.2	5485.8	3674.1	934.0	348.8	422.0	444.5	374.2	315.1	303.8	298.2
70°	5246.7	5519.6	3654.4	610.5	303.8	362.9	396.7	334.8	281.3	272.9	264.4
72.5°	5263.6	5288.9	3457.5	385.4	264.4	312.3	348.8	301.0	247.6	239.1	233.5
75°	4985.1	4686.9	2925.8	275.7	233.5	275.7	306.6	261.6	205.4	194.1	188.5
77.5°	4256.4	3719.1	2104.3	205.4	202.6	236.3	256.0	227.9	171.6	163.2	160.4
80°	2987.7	2523.5	1055.0	154.7	160.4	196.9	213.8	191.3	143.5	132.2	126.6
82.5°	1209.7	1071.8	362.9	115.3	121.0	149.1	182.9	157.5	109.7	95.7	84.4
85°	137.8	233.5	157.5	78.8	81.6	101.3	123.8	95.7	64.7	53.5	45.0
87.5°	28.1	50.6	56.3	30.9	28.1	39.4	56.3	33.8	22.5	8.4	11.3
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)