

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: P594889

Luminaire Tested: **ISS-PA1F-740-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
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-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11468 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

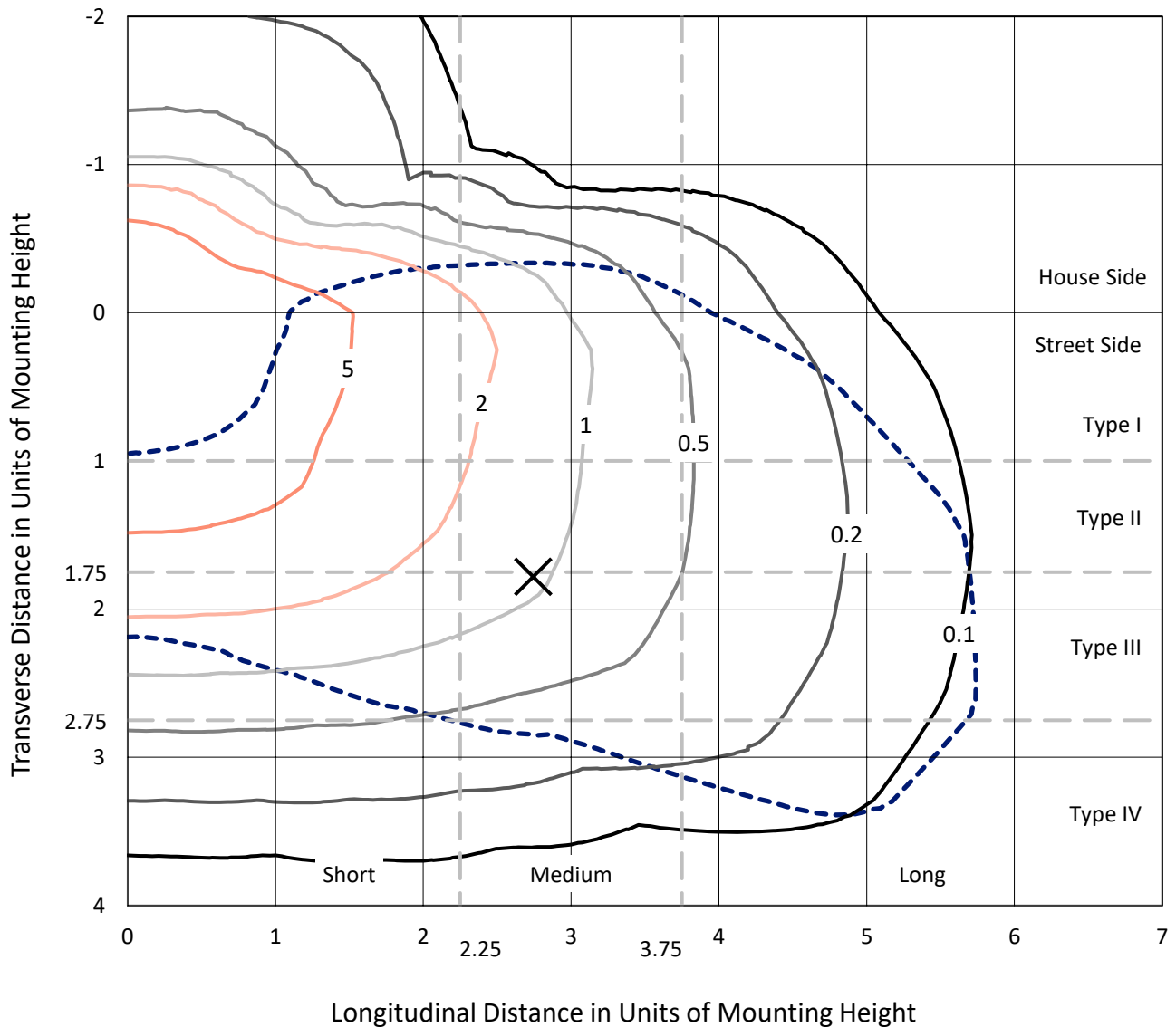
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

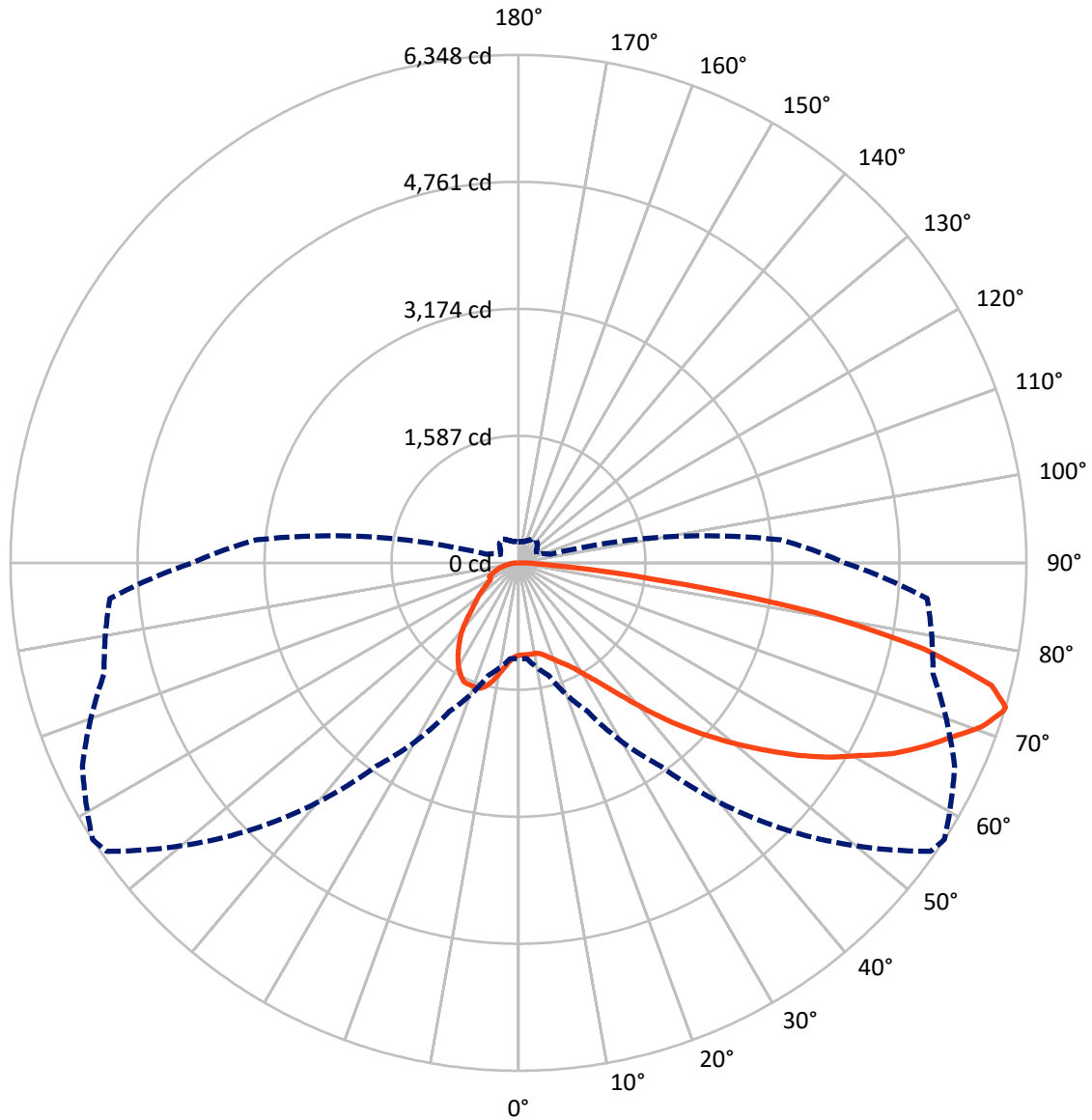
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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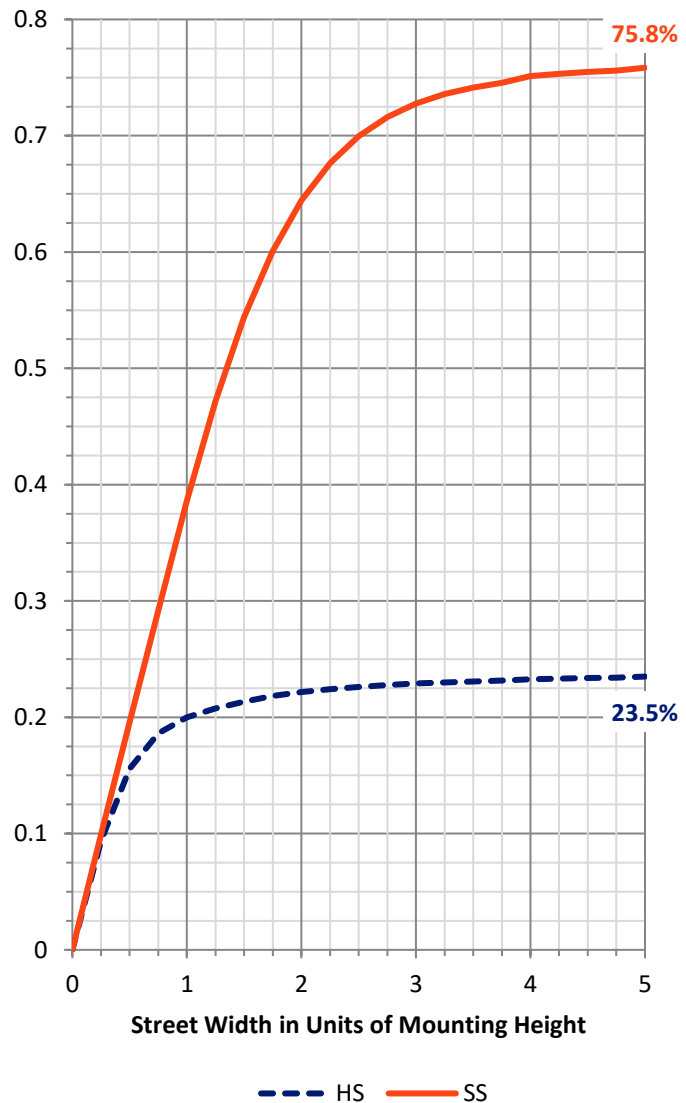
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2735.9	0.0	2735.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8732.1	0.0	8732.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	11468.0	0.0	11468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.0
10°-20°	379.4	3.3
20°-30°	700.4	6.1
30°-40°	1081.5	9.4
40°-50°	1627.9	14.2
50°-60°	2382.6	20.8
60°-70°	2813.6	24.5
70°-80°	2014.4	17.6
80°-90°	353.0	3.1
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°	11468.0	100.0
0°-180°	11468.0	100.0

Coefficient of Utilization

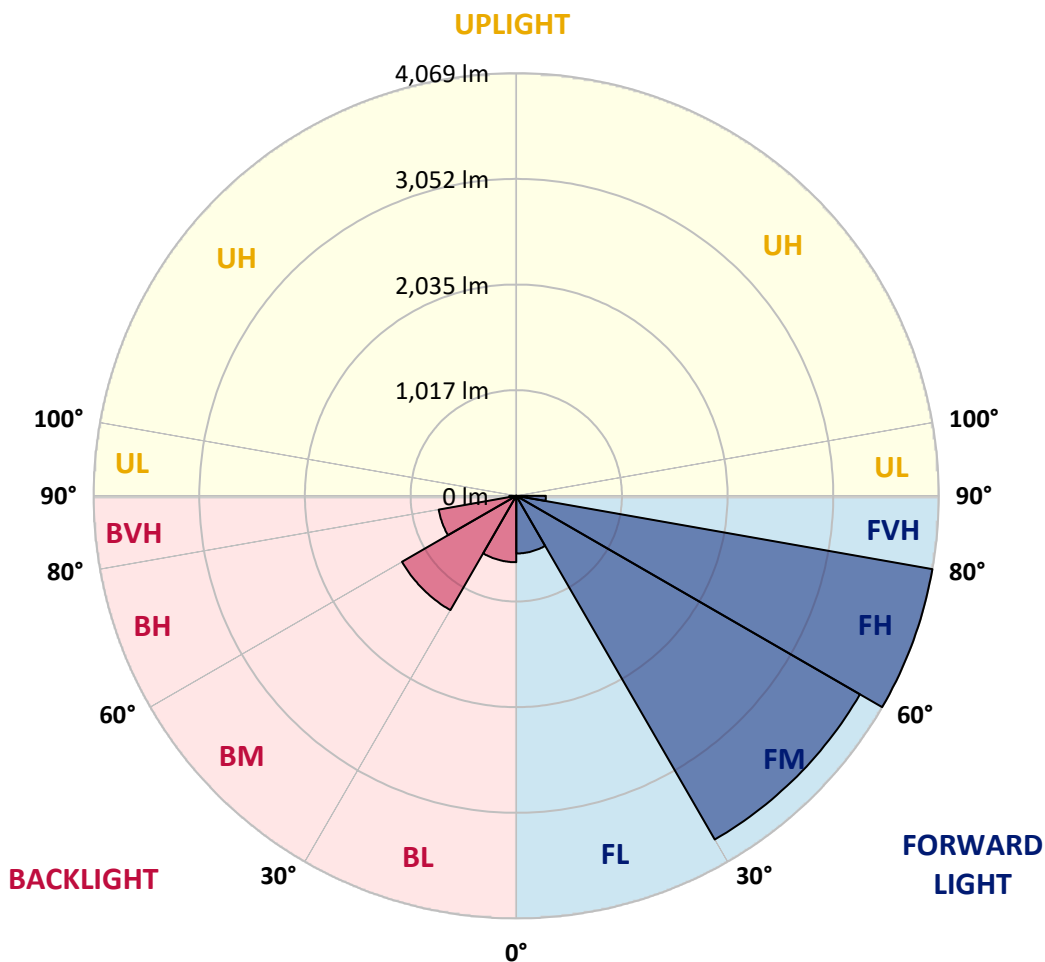


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.7	4.8			
FM	(30°-60°)	3821.4	33.3			
FH	(60°-80°)	4069.4	35.5			G2/5000
FVH	(80°-90°)	285.6	2.5			G3/500
BL	(0°-30°)	639.4	5.6	B2/1000		
BM	(30°-60°)	1270.5	11.1	B2/2500		
BH	(60°-80°)	758.6	6.6	B2/1000		G2/1000
BVH	(80°-90°)	67.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1141.3	1147.0	1144.2	1147.0	1155.4	1149.8	1149.8	1152.6	1155.4	1152.6	1158.2
5°	1093.6	1096.4	1102.0	1113.2	1132.9	1138.5	1152.6	1152.6	1158.2	1163.8	1172.3
7.5°	1014.8	1020.5	1031.7	1043.0	1076.7	1110.4	1147.0	1152.6	1172.3	1186.3	1192.0
10°	1000.8	1006.4	1009.2	1026.1	1059.8	1093.6	1138.5	1149.8	1186.3	1208.8	1234.1
12.5°	986.7	992.4	1000.8	1023.3	1065.4	1102.0	1149.8	1161.0	1206.0	1251.0	1281.9
15°	998.0	1000.8	1009.2	1031.7	1073.9	1124.5	1186.3	1194.8	1245.4	1301.6	1349.4
17.5°	1026.1	1028.9	1026.1	1045.8	1085.1	1144.2	1228.5	1242.6	1304.4	1360.6	1408.4
20°	1090.7	1093.6	1082.3	1082.3	1110.4	1169.5	1273.5	1293.2	1369.1	1430.9	1478.7
22.5°	1231.3	1225.7	1197.6	1161.0	1161.0	1208.8	1324.1	1352.2	1447.8	1498.4	1540.5
25°	1430.9	1430.9	1385.9	1318.5	1273.5	1267.9	1383.1	1414.0	1526.5	1588.3	1613.6
27.5°	1672.7	1675.5	1602.4	1512.4	1425.3	1383.1	1467.4	1498.4	1624.9	1689.5	1698.0
30°	1886.3	1889.1	1816.0	1731.7	1624.9	1532.1	1579.9	1613.6	1759.8	1810.4	1782.3
32.5°	2100.0	2102.8	2052.2	1936.9	1824.5	1709.2	1723.3	1742.9	1891.9	1939.7	1894.8
35°	2285.5	2293.9	2243.3	2156.2	2038.1	1934.1	1908.8	1911.6	2046.6	2077.5	2018.4
37.5°	2473.9	2473.9	2442.9	2361.4	2260.2	2145.0	2111.2	2119.6	2240.5	2271.5	2187.1
40°	2712.8	2724.1	2707.2	2606.0	2490.7	2395.1	2361.4	2372.7	2504.8	2487.9	2398.0
42.5°	3002.4	3027.7	2999.6	2889.9	2766.2	2659.4	2659.4	2659.4	2771.8	2774.7	2639.7
45°	3373.4	3373.4	3345.3	3249.8	3086.7	2979.9	2943.3	2951.8	3050.2	3061.4	2904.0
47.5°	3682.7	3710.8	3679.9	3609.6	3480.3	3379.1	3263.8	3249.8	3331.3	3331.3	3196.3
50°	3932.9	3983.5	3958.2	3989.1	3896.3	3845.7	3609.6	3570.2	3598.3	3626.5	3477.5
52.5°	4140.9	4180.3	4171.8	4261.8	4306.8	4334.9	3961.0	3899.1	3921.6	3918.8	3783.9
55°	4155.0	4169.0	4295.5	4497.9	4675.0	4807.2	4315.2	4247.7	4225.2	4214.0	4110.0
57.5°	4073.4	4081.9	4334.9	4573.8	4959.0	5110.8	4649.7	4582.3	4551.3	4512.0	4469.8
60°	3876.7	3918.8	4250.5	4618.8	5127.6	5346.9	4961.8	4891.5	4869.0	4784.7	4880.3
62.5°	3626.5	3646.1	3977.9	4526.0	5150.1	5448.1	5290.7	5248.5	5178.2	5057.4	5245.7
65°	3272.2	3269.4	3561.8	4253.4	5034.9	5498.7	5569.0	5546.5	5459.4	5251.3	5571.8
67.5°	2687.5	2752.2	3038.9	3769.8	4756.6	5549.3	5852.9	5824.8	5687.1	5425.6	5726.4
70°	2049.4	2088.7	2414.8	3044.5	4202.8	5411.6	6131.2	6139.7	5889.5	5462.2	5659.0
72.5°	1307.2	1374.7	1633.3	2218.0	3365.0	4899.9	6297.1	6336.5	6001.9	5411.6	5240.1
73°	1197.6	1203.2	1456.2	2052.2	3103.6	4717.2	6285.9	6347.7	6013.2	5361.0	5124.8
75°	714.0	745.0	896.8	1363.4	2215.2	3789.5	5982.2	6105.9	5954.1	5136.1	4492.3
77.5°	334.5	357.0	441.4	719.7	1206.0	2279.9	5029.2	5175.4	5276.6	4495.1	3424.0
80°	177.1	179.9	216.5	362.6	646.6	938.9	3505.6	3747.3	3890.7	3384.7	2302.4
82.5°	149.0	149.0	168.7	233.3	413.2	365.5	1445.0	1720.5	2108.4	1667.0	905.2
85°	120.9	123.7	168.7	174.3	295.2	188.4	345.8	432.9	818.1	736.5	101.2
87.5°	39.4	45.0	95.6	123.7	157.4	73.1	87.1	95.6	95.6	140.6	33.7
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°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1161.0	1161.0	1163.8	1166.7	1172.3	1172.3	1177.9	1180.7	1186.3	1189.1	1180.7
5°	1172.3	1177.9	1183.5	1200.4	1220.1	1236.9	1253.8	1267.9	1281.9	1290.3	1287.5
7.5°	1203.2	1211.6	1234.1	1265.0	1304.4	1329.7	1355.0	1380.3	1391.5	1397.2	1397.2
10°	1245.4	1262.2	1304.4	1355.0	1400.0	1439.3	1459.0	1475.9	1481.5	1487.1	1481.5
12.5°	1304.4	1326.9	1391.5	1456.2	1506.8	1526.5	1523.7	1501.2	1470.3	1464.6	1459.0
15°	1380.3	1408.4	1481.5	1557.4	1596.8	1571.5	1506.8	1484.3	1478.7	1495.6	1489.9
17.5°	1445.0	1478.7	1568.7	1647.4	1638.9	1551.8	1532.1	1543.4	1537.7	1540.5	1540.5
20°	1506.8	1554.6	1650.2	1703.6	1630.5	1574.3	1557.4	1543.4	1526.5	1532.1	1526.5
22.5°	1585.5	1619.3	1728.9	1731.7	1619.3	1574.3	1537.7	1509.6	1504.0	1506.8	1509.6
25°	1647.4	1700.8	1796.4	1712.0	1619.3	1529.3	1478.7	1473.1	1475.9	1492.8	1487.1
27.5°	1731.7	1785.1	1849.8	1700.8	1551.8	1456.2	1436.5	1433.7	1414.0	1419.7	1419.7
30°	1810.4	1875.1	1877.9	1700.8	1467.4	1394.4	1366.2	1315.6	1273.5	1281.9	1279.1
32.5°	1917.2	1973.5	1883.5	1633.3	1371.9	1312.8	1236.9	1158.2	1138.5	1149.8	1152.6
35°	2040.9	2085.9	1889.1	1520.9	1276.3	1197.6	1059.8	1014.8	1012.0	1020.5	1028.9
37.5°	2204.0	2229.3	1931.3	1391.5	1183.5	1017.7	910.8	899.6	874.3	857.4	860.2
40°	2403.6	2372.7	2012.8	1276.3	1073.9	854.6	809.6	778.7	730.9	683.1	691.6
42.5°	2625.7	2538.5	2038.1	1183.5	924.9	753.4	711.2	663.4	604.4	553.8	551.0
45°	2864.6	2724.1	2015.6	1110.4	775.9	677.5	632.5	576.3	506.0	463.8	463.8
47.5°	3148.6	2901.2	1945.4	1051.4	671.9	610.0	553.8	497.6	449.8	410.4	410.4
50°	3460.6	3106.4	1894.8	947.4	598.8	545.4	489.1	444.2	407.6	376.7	376.7
52.5°	3789.5	3300.4	1852.6	795.6	534.1	486.3	447.0	410.4	379.5	340.2	334.5
55°	4124.0	3485.9	1872.3	649.4	475.1	444.2	418.9	382.3	371.1	362.6	357.0
57.5°	4472.6	3688.3	1920.1	531.3	424.5	421.7	410.4	435.7	461.0	444.2	435.7
60°	4745.3	3845.7	1925.7	447.0	393.6	444.2	500.4	508.8	441.4	402.0	399.2
62.5°	4961.8	3994.7	1793.5	387.9	402.0	522.9	534.1	449.8	382.3	365.5	365.5
65°	5074.2	4048.1	1442.1	354.2	418.9	500.4	483.5	404.8	357.0	354.2	354.2
67.5°	5018.0	4006.0	1009.2	317.7	371.1	432.9	432.9	371.1	328.9	343.0	337.3
70°	4748.1	3797.9	666.3	286.7	326.1	390.8	402.0	345.8	306.4	314.9	306.4
72.5°	4185.9	3426.9	438.5	253.0	281.1	345.8	373.9	317.7	281.1	278.3	269.9
73°	4076.2	3286.3	413.2	247.4	272.7	334.5	365.5	312.0	275.5	267.1	261.4
75°	3457.8	2740.9	312.0	222.1	241.8	300.8	340.2	292.4	253.0	241.8	236.1
77.5°	2518.8	1900.4	233.3	188.4	202.4	261.4	300.8	267.1	224.9	210.8	208.0
80°	1571.5	1034.5	174.3	151.8	160.2	219.3	264.3	239.0	194.0	177.1	174.3
82.5°	615.7	337.3	120.9	112.4	118.1	165.9	222.1	208.0	163.0	149.0	140.6
85°	101.2	115.3	78.7	75.9	75.9	118.1	168.7	160.2	109.6	95.6	84.3
87.5°	28.1	53.4	30.9	28.1	28.1	50.6	92.8	73.1	45.0	36.5	33.7
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)