

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: P595386

Luminaire Tested: **IST-PA1F-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-740-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11144 lumens
Efficiency: N/A
Efficacy: 119.2 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

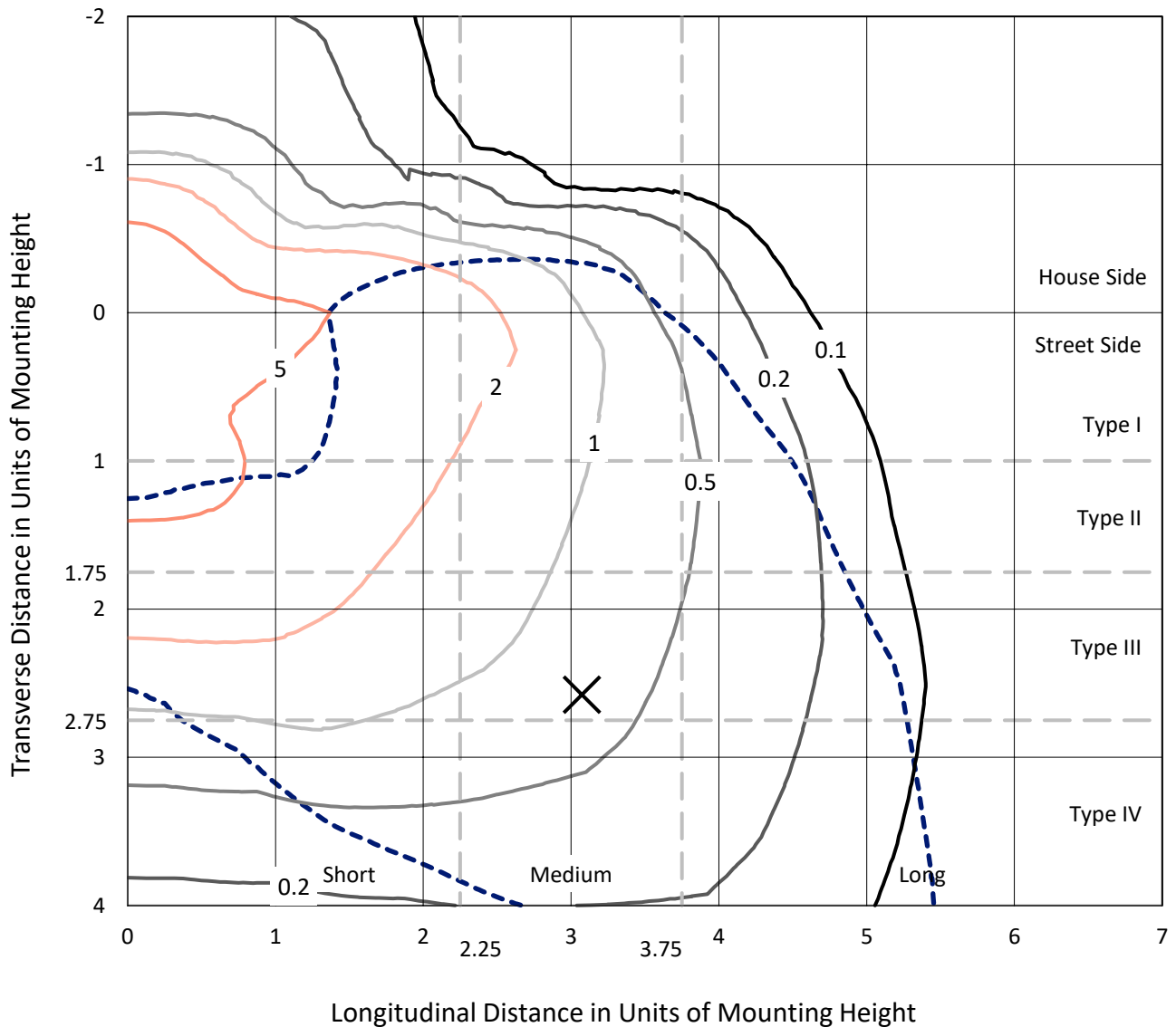
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

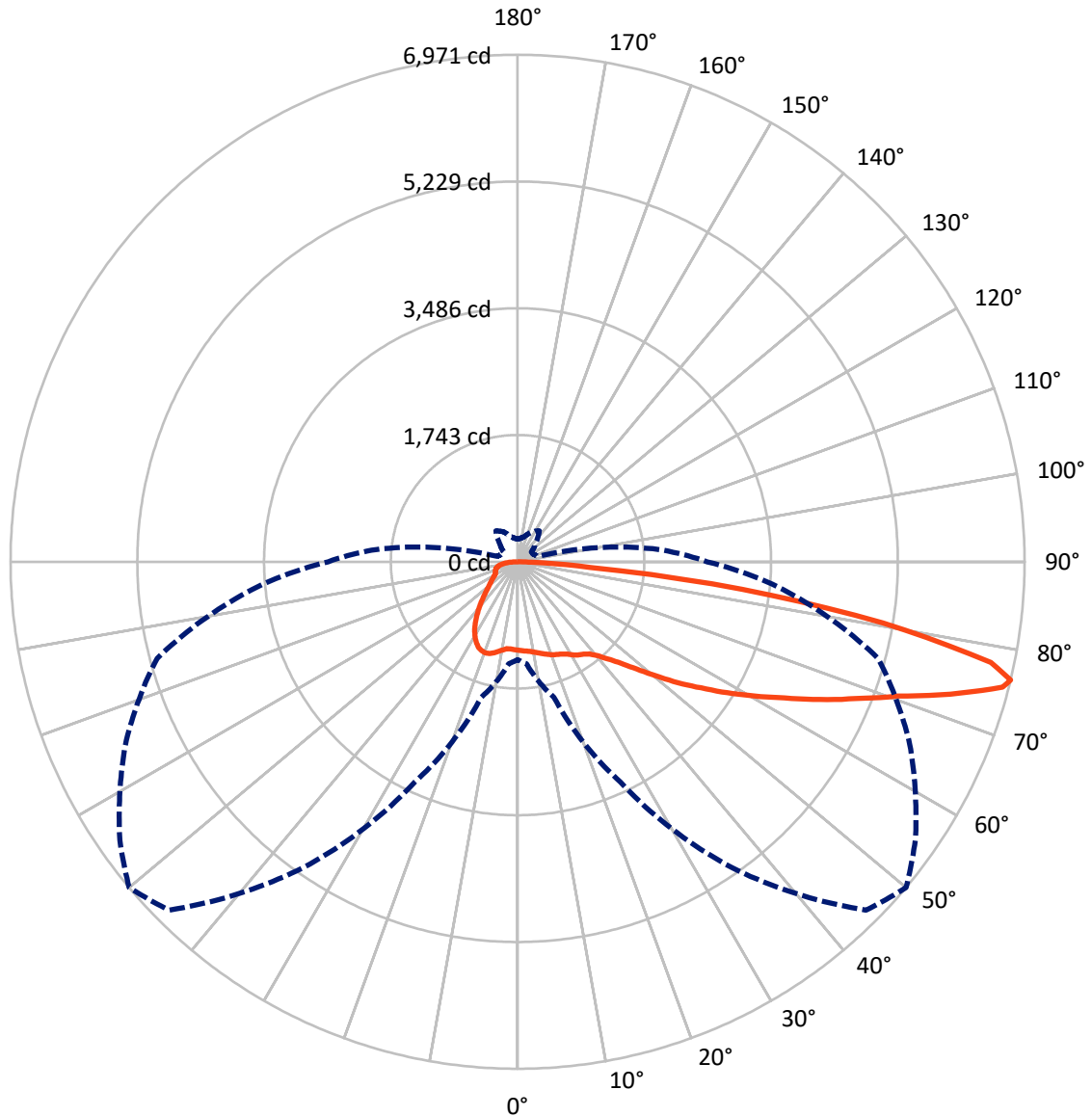
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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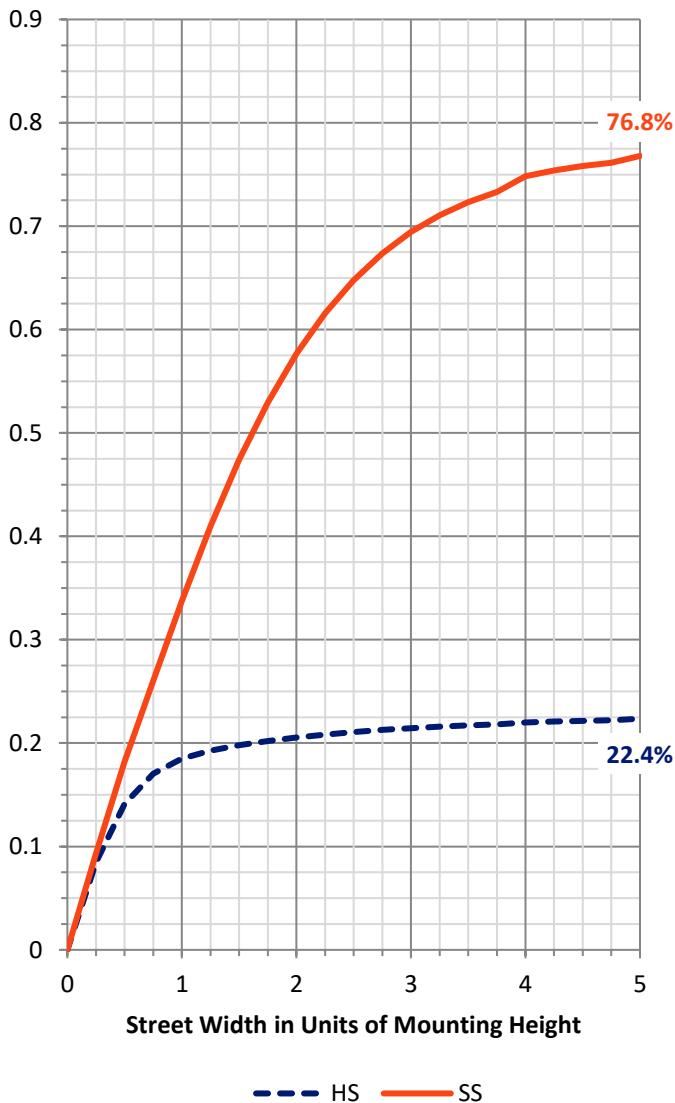
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2549.3	0.0	2549.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8594.7	0.0	8594.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	11144.0	0.0	11144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.1
10°-20°	370.8	3.3
20°-30°	626.4	5.6
30°-40°	858.6	7.7
40°-50°	1264.6	11.3
50°-60°	1989.2	17.9
60°-70°	2863.3	25.7
70°-80°	2603.6	23.4
80°-90°	449.5	4.0
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°	11144.0	100.0
0°-180°	11144.0	100.0

Coefficient of Utilization

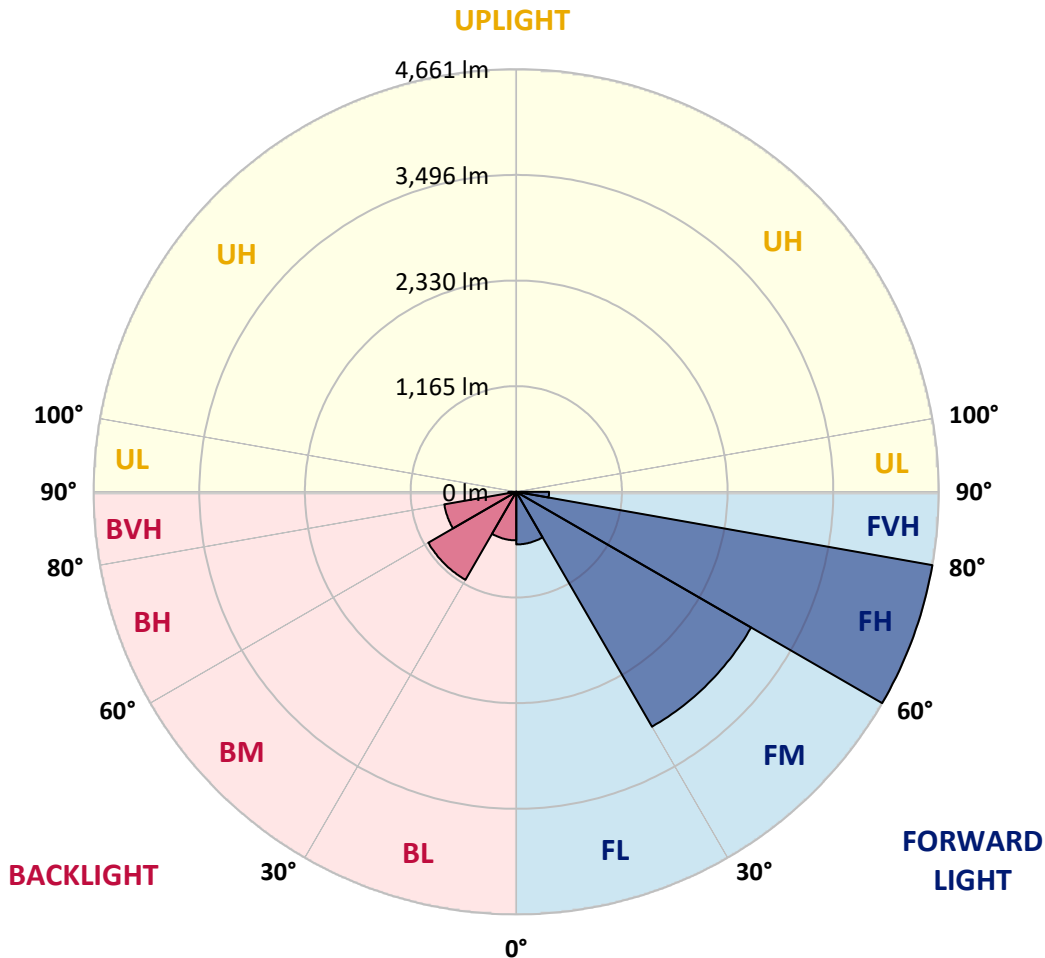


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.0	5.2			
FM (30°-60°)	2992.0	26.8			
FH (60°-80°)	4660.9	41.8			G2/5000
FVH (80°-90°)	361.8	3.2			G3/500
BL (0°-30°)	535.2	4.8	B2/1000		
BM (30°-60°)	1120.4	10.1	B2/2500		
BH (60°-80°)	806.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	87.7	0.8			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°	50°	55°	65°	75°	85°
0°	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7
2.5°	1242.0	1242.0	1244.7	1239.2	1239.2	1225.6	1225.6	1222.9	1217.4	1214.7	1209.2
5°	1288.4	1288.4	1280.2	1266.5	1258.3	1242.0	1233.8	1228.3	1217.4	1203.8	1190.1
7.5°	1337.5	1332.0	1326.6	1304.7	1288.4	1258.3	1244.7	1236.5	1214.7	1195.6	1187.4
10°	1389.4	1381.2	1367.5	1340.2	1315.7	1280.2	1263.8	1252.9	1228.3	1211.9	1192.8
12.5°	1419.4	1419.4	1403.0	1370.3	1337.5	1293.8	1285.6	1272.0	1247.4	1225.6	1206.5
15°	1449.4	1452.1	1435.8	1397.6	1359.3	1326.6	1312.9	1304.7	1277.5	1244.7	1220.1
17.5°	1479.4	1476.7	1460.3	1416.7	1375.7	1345.7	1337.5	1326.6	1299.3	1269.3	1244.7
20°	1501.3	1495.8	1490.4	1435.8	1394.8	1375.7	1364.8	1356.6	1329.3	1296.6	1263.8
22.5°	1506.7	1512.2	1506.7	1441.2	1408.5	1386.6	1383.9	1375.7	1353.9	1323.9	1291.1
25°	1509.5	1512.2	1520.4	1457.6	1427.6	1411.2	1405.7	1400.3	1383.9	1359.3	1315.7
27.5°	1523.1	1525.8	1525.8	1468.5	1452.1	1441.2	1435.8	1435.8	1427.6	1397.6	1353.9
30°	1525.8	1528.6	1534.0	1495.8	1490.4	1482.2	1484.9	1482.2	1468.5	1435.8	1386.6
32.5°	1545.0	1547.7	1561.3	1512.2	1517.7	1525.8	1528.6	1525.8	1498.5	1471.3	1430.3
35°	1607.7	1605.0	1615.9	1553.1	1547.7	1550.4	1558.6	1555.9	1545.0	1520.4	1493.1
37.5°	1809.7	1809.7	1779.7	1648.7	1607.7	1602.3	1607.7	1621.4	1624.1	1602.3	1580.4
40°	2164.6	2145.5	2129.1	1845.2	1714.2	1681.4	1697.8	1706.0	1727.8	1727.8	1727.8
42.5°	2530.3	2533.1	2527.6	2150.9	1905.3	1823.4	1826.1	1845.2	1891.6	1899.8	1924.4
45°	2855.2	2874.3	2915.2	2505.8	2186.4	2003.5	1984.4	2003.5	2069.0	2123.6	2186.4
47.5°	3109.0	3087.2	3177.3	2877.0	2508.5	2249.2	2200.1	2205.5	2295.6	2382.9	2481.2
50°	3327.4	3332.8	3373.8	3256.4	2915.2	2527.6	2462.1	2451.2	2579.5	2672.3	2838.8
52.5°	3573.0	3556.7	3616.7	3589.4	3311.0	2868.8	2765.1	2732.3	2871.5	3002.6	3182.7
55°	3690.4	3706.8	3829.6	3897.9	3685.0	3174.5	3059.9	3070.8	3218.2	3357.4	3608.5
57.5°	3897.9	3914.2	4056.2	4198.1	4018.0	3499.3	3398.3	3398.3	3564.9	3720.4	4108.0
60°	4181.7	4184.5	4329.1	4574.8	4310.0	3813.2	3747.7	3745.0	3925.2	4105.3	4697.6
62.5°	4307.3	4340.1	4555.7	4875.1	4692.2	4198.1	4121.7	4143.5	4304.6	4514.8	5355.5
65°	4138.1	4209.0	4659.4	5077.1	5033.4	4599.4	4569.3	4599.4	4697.6	4924.2	6051.5
67.5°	3578.5	3674.0	4468.4	5213.5	5306.3	5063.4	5019.7	5014.3	5077.1	5330.9	6491.0
70°	3289.2	3346.5	3963.4	5265.4	5524.7	5532.9	5532.9	5497.4	5489.2	5674.8	6531.9
72.5°	2707.8	2767.8	3343.8	4976.1	5732.2	6160.7	6223.5	6092.5	5890.5	5852.3	5846.8
75°	1929.8	1973.5	2470.3	3914.2	5467.4	6763.9	6889.5	6635.7	6073.4	5464.7	4263.6
76°	1345.7	1408.5	1929.8	3343.8	5134.4	6774.9	6971.4	6676.6	5950.5	5131.6	3513.0
77.5°	682.4	704.2	1116.4	2246.5	4296.4	6463.7	6654.8	6324.5	5415.5	4146.3	2230.1
80°	259.3	267.5	398.5	818.9	2358.4	5019.7	5093.4	4648.5	3584.0	1771.5	802.5
82.5°	136.5	141.9	223.8	404.0	969.0	2759.6	3114.5	2593.1	1405.7	532.3	234.7
85°	68.2	73.7	131.0	245.7	480.4	862.6	999.0	944.4	466.8	202.0	87.3
87.5°	27.3	32.8	65.5	109.2	193.8	169.2	188.3	242.9	150.1	95.5	30.0
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°	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7	1214.7
2.5°	1209.2	1206.5	1209.2	1206.5	1209.2	1209.2	1211.9	1206.5	1206.5	1211.9	1203.8
5°	1190.1	1187.4	1190.1	1195.6	1198.3	1203.8	1214.7	1211.9	1217.4	1222.9	1225.6
7.5°	1181.9	1179.2	1187.4	1190.1	1198.3	1209.2	1225.6	1236.5	1242.0	1252.9	1247.4
10°	1190.1	1190.1	1201.0	1209.2	1222.9	1236.5	1250.2	1261.1	1274.7	1282.9	1280.2
12.5°	1203.8	1201.0	1220.1	1231.0	1250.2	1263.8	1274.7	1280.2	1291.1	1302.0	1299.3
15°	1217.4	1220.1	1247.4	1269.3	1291.1	1296.6	1299.3	1293.8	1299.3	1304.7	1304.7
17.5°	1244.7	1247.4	1277.5	1302.0	1321.1	1315.7	1302.0	1288.4	1288.4	1291.1	1293.8
20°	1266.5	1272.0	1307.5	1329.3	1340.2	1318.4	1296.6	1280.2	1272.0	1274.7	1272.0
22.5°	1291.1	1302.0	1337.5	1348.4	1332.0	1304.7	1277.5	1255.6	1255.6	1258.3	1258.3
25°	1321.1	1326.6	1351.2	1345.7	1315.7	1274.7	1252.9	1244.7	1242.0	1244.7	1247.4
27.5°	1348.4	1351.2	1364.8	1326.6	1269.3	1225.6	1217.4	1220.1	1222.9	1225.6	1228.3
30°	1383.9	1389.4	1375.7	1299.3	1211.9	1162.8	1162.8	1179.2	1184.6	1192.8	1190.1
32.5°	1427.6	1433.0	1392.1	1263.8	1138.2	1089.1	1091.8	1116.4	1132.8	1138.2	1141.0
35°	1501.3	1490.4	1403.0	1214.7	1059.1	999.0	1001.8	1031.8	1053.6	1061.8	1056.4
37.5°	1591.4	1588.6	1419.4	1151.9	960.8	906.2	909.0	922.6	944.4	947.2	949.9
40°	1741.5	1719.6	1446.7	1070.0	862.6	810.7	805.2	813.4	810.7	816.1	818.9
42.5°	1957.1	1899.8	1482.2	977.2	775.2	720.6	715.2	701.5	685.1	668.8	660.6
45°	2211.0	2120.9	1525.8	881.7	685.1	636.0	622.3	606.0	573.2	537.7	526.8
47.5°	2538.5	2366.6	1575.0	786.1	600.5	562.3	551.4	526.8	488.6	447.7	439.5
50°	2874.3	2655.9	1624.1	707.0	532.3	510.4	499.5	474.9	425.8	387.6	379.4
52.5°	3264.6	2942.5	1676.0	636.0	472.2	472.2	464.0	425.8	379.4	343.9	338.5
55°	3715.0	3237.3	1757.9	567.8	428.5	439.5	428.5	390.3	346.7	322.1	319.4
57.5°	4252.7	3611.3	1861.6	494.1	390.3	398.5	398.5	371.2	341.2	324.8	322.1
60°	4793.2	3990.7	1927.1	439.5	360.3	368.5	384.9	371.2	352.1	343.9	341.2
62.5°	5311.8	4378.3	1815.2	393.1	330.3	354.8	395.8	398.5	379.4	382.1	382.1
65°	5699.4	4673.1	1468.5	352.1	311.2	363.0	428.5	431.3	398.5	390.3	387.6
67.5°	5833.1	4755.0	988.1	324.8	300.3	368.5	466.8	455.8	398.5	382.1	374.0
70°	5579.3	4454.7	641.5	300.3	283.9	363.0	496.8	469.5	395.8	371.2	360.3
72.5°	4678.5	3799.6	428.5	278.4	267.5	357.6	515.9	469.5	387.6	352.1	341.2
75°	3248.2	2595.8	319.4	251.1	242.9	349.4	521.4	461.3	368.5	330.3	322.1
76°	2606.8	1946.2	289.3	240.2	232.0	343.9	518.6	453.1	354.8	319.4	311.2
77.5°	1645.9	1119.1	242.9	221.1	215.6	333.0	507.7	434.0	335.7	300.3	292.1
80°	575.9	409.4	185.6	180.2	182.9	308.4	477.7	395.8	297.5	264.8	253.9
82.5°	229.3	188.3	139.2	139.2	144.7	264.8	431.3	349.4	259.3	218.4	202.0
85°	90.1	81.9	98.3	98.3	103.7	215.6	360.3	273.0	177.4	136.5	131.0
87.5°	27.3	38.2	43.7	46.4	49.1	109.2	204.7	120.1	79.2	57.3	46.4
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)