

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: P595368

Luminaire Tested: **IST-PA1F-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595368
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-730-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 10149 lumens
Efficiency: N/A
Efficacy: 108.5 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

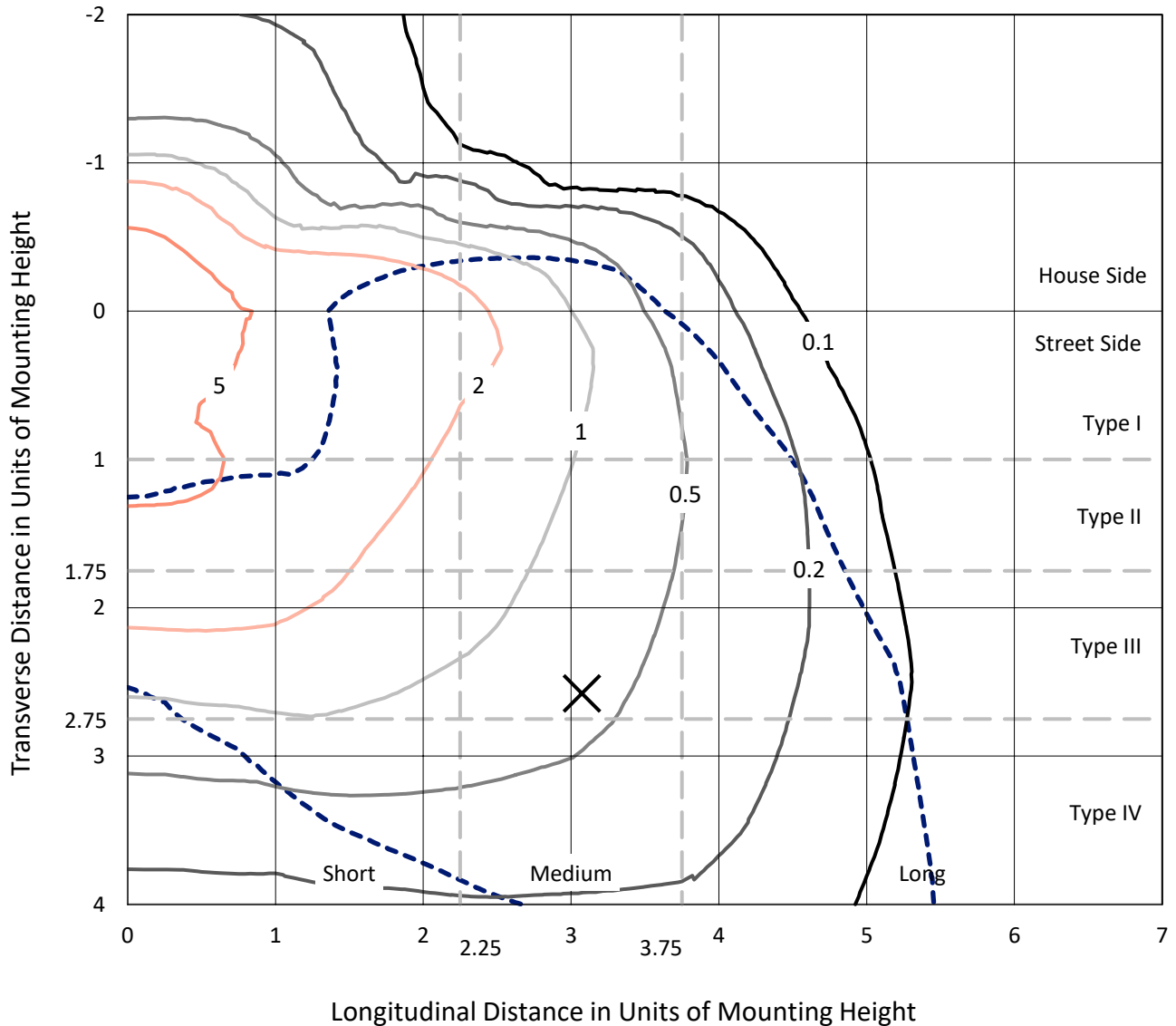
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

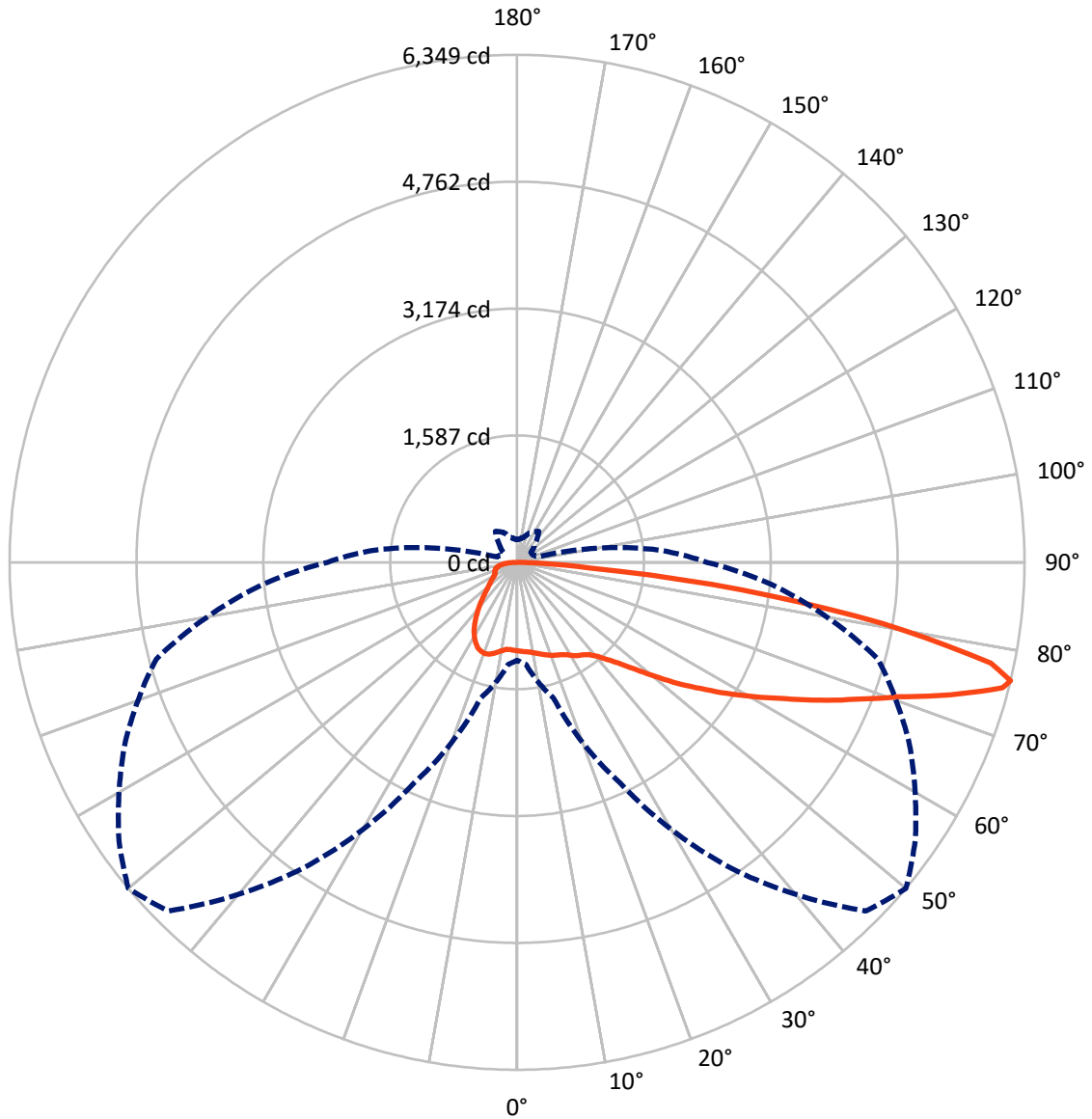
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.3 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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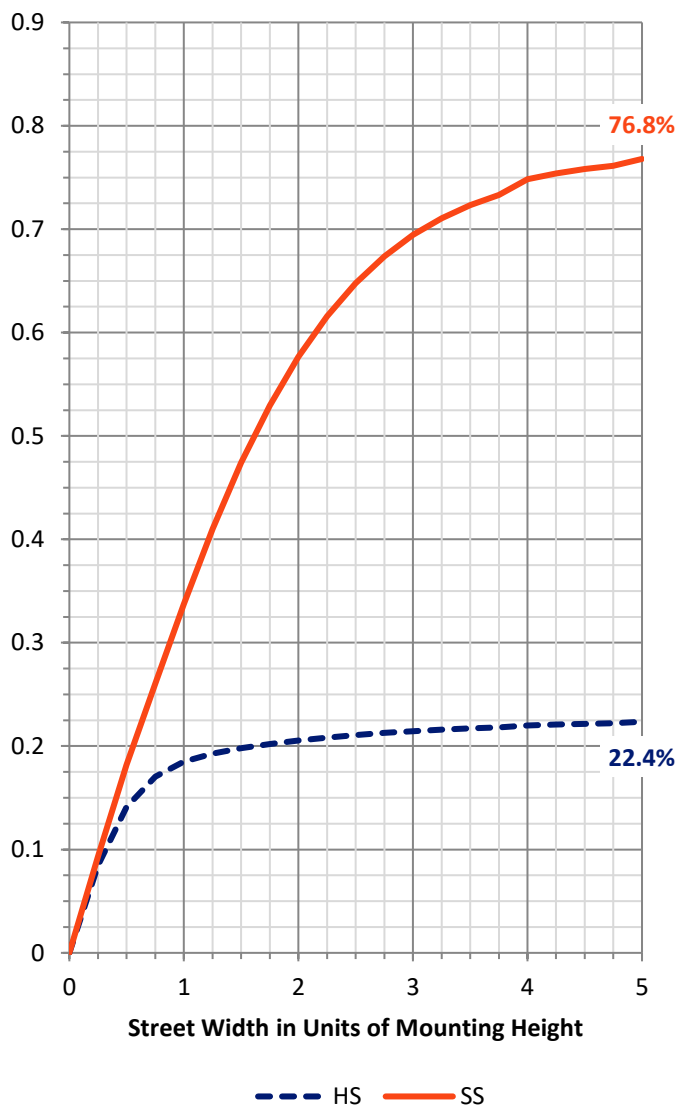
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.7	0.0	2321.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7827.3	0.0	7827.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	10149.0	0.0	10149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.1
10°-20°	337.7	3.3
20°-30°	570.5	5.6
30°-40°	781.9	7.7
40°-50°	1151.7	11.3
50°-60°	1811.6	17.9
60°-70°	2607.7	25.7
70°-80°	2371.1	23.4
80°-90°	409.3	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°	10149.0	100.0
0°-180°	10149.0	100.0

Coefficient of Utilization

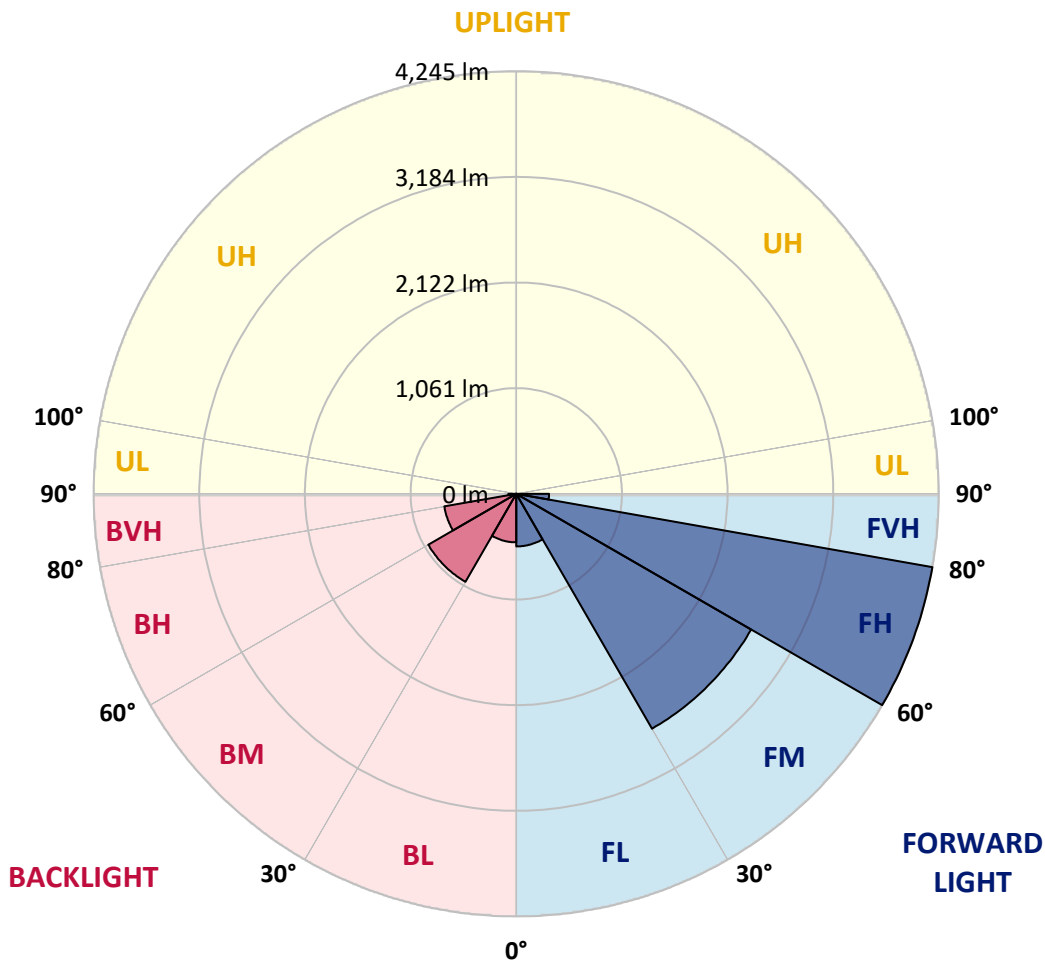


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.2	5.2			
FM (30°-60°)	2724.8	26.8			
FH (60°-80°)	4244.8	41.8			G2/5000
FVH (80°-90°)	329.5	3.2			G3/500
BL (0°-30°)	487.4	4.8	B1/500		
BM (30°-60°)	1020.4	10.1	B2/2500		
BH (60°-80°)	734.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	79.9	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°	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2
2.5°	1131.1	1131.1	1133.6	1128.6	1128.6	1116.2	1116.2	1113.7	1108.7	1106.2	1101.2
5°	1173.3	1173.3	1165.9	1153.4	1146.0	1131.1	1123.6	1118.6	1108.7	1096.3	1083.8
7.5°	1218.1	1213.1	1208.1	1188.3	1173.3	1146.0	1133.6	1126.1	1106.2	1088.8	1081.4
10°	1265.3	1257.9	1245.4	1220.6	1198.2	1165.9	1151.0	1141.0	1118.6	1103.7	1086.3
12.5°	1292.7	1292.7	1277.7	1247.9	1218.1	1178.3	1170.9	1158.4	1136.0	1116.2	1098.8
15°	1320.0	1322.5	1307.6	1272.8	1238.0	1208.1	1195.7	1188.3	1163.4	1133.6	1111.2
17.5°	1347.3	1344.9	1329.9	1290.2	1252.9	1225.5	1218.1	1208.1	1183.3	1155.9	1133.6
20°	1367.2	1362.3	1357.3	1307.6	1270.3	1252.9	1242.9	1235.5	1210.6	1180.8	1151.0
22.5°	1372.2	1377.2	1372.2	1312.5	1282.7	1262.8	1260.3	1252.9	1233.0	1205.7	1175.8
25°	1374.7	1377.2	1384.6	1327.5	1300.1	1285.2	1280.2	1275.3	1260.3	1238.0	1198.2
27.5°	1387.1	1389.6	1389.6	1337.4	1322.5	1312.5	1307.6	1307.6	1300.1	1272.8	1233.0
30°	1389.6	1392.1	1397.1	1362.3	1357.3	1349.8	1352.3	1349.8	1337.4	1307.6	1262.8
32.5°	1407.0	1409.5	1421.9	1377.2	1382.2	1389.6	1392.1	1389.6	1364.7	1339.9	1302.6
35°	1464.2	1461.7	1471.6	1414.5	1409.5	1412.0	1419.4	1417.0	1407.0	1384.6	1359.8
37.5°	1648.1	1648.1	1620.8	1501.5	1464.2	1459.2	1464.2	1476.6	1479.1	1459.2	1439.3
40°	1971.3	1953.9	1939.0	1680.5	1561.1	1531.3	1546.2	1553.7	1573.6	1573.6	1573.6
42.5°	2304.4	2306.9	2301.9	1958.9	1735.1	1660.6	1663.1	1680.5	1722.7	1730.2	1752.5
45°	2600.2	2617.6	2654.9	2282.0	1991.2	1824.6	1807.2	1824.6	1884.3	1934.0	1991.2
47.5°	2831.4	2811.5	2893.6	2620.1	2284.5	2048.4	2003.6	2008.6	2090.6	2170.2	2259.7
50°	3030.3	3035.3	3072.6	2965.7	2654.9	2301.9	2242.3	2232.3	2349.2	2433.7	2585.3
52.5°	3254.0	3239.1	3293.8	3268.9	3015.4	2612.7	2518.2	2488.4	2615.1	2734.5	2898.5
55°	3360.9	3375.8	3487.7	3549.8	3355.9	2891.1	2786.7	2796.6	2930.9	3057.6	3286.3
57.5°	3549.8	3564.8	3694.0	3823.3	3659.2	3186.9	3094.9	3094.9	3246.6	3388.3	3741.3
60°	3808.4	3810.9	3942.6	4166.3	3925.2	3472.8	3413.1	3410.6	3574.7	3738.8	4278.2
62.5°	3922.7	3952.6	4148.9	4439.8	4273.2	3823.3	3753.7	3773.6	3920.2	4111.7	4877.3
65°	3768.6	3833.2	4243.4	4623.7	4584.0	4188.7	4161.4	4188.7	4278.2	4484.5	5511.2
67.5°	3259.0	3346.0	4069.4	4748.0	4832.6	4611.3	4571.5	4566.6	4623.7	4854.9	5911.4
70°	2995.5	3047.7	3609.5	4795.3	5031.4	5038.9	5038.9	5006.6	4999.1	5168.2	5948.7
72.5°	2466.0	2520.7	3045.2	4531.8	5220.4	5610.6	5667.8	5548.5	5364.5	5329.7	5324.8
75°	1757.5	1797.3	2249.7	3564.8	4979.2	6160.0	6274.4	6043.2	5531.1	4976.7	3882.9
76°	1225.5	1282.7	1757.5	3045.2	4675.9	6170.0	6348.9	6080.5	5419.2	4673.5	3199.3
77.5°	621.5	641.4	1016.7	2045.9	3912.8	5886.6	6060.6	5759.8	4932.0	3776.1	2031.0
80°	236.2	243.6	362.9	745.8	2147.8	4571.5	4638.7	4233.5	3264.0	1613.3	730.8
82.5°	124.3	129.3	203.8	367.9	882.5	2513.2	2836.4	2361.6	1280.2	484.7	213.8
85°	62.1	67.1	119.3	223.7	437.5	785.5	909.8	860.1	425.1	184.0	79.5
87.5°	24.9	29.8	59.7	99.4	176.5	154.1	171.5	221.2	136.7	87.0	27.3
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°	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2	1106.2
2.5°	1101.2	1098.8	1101.2	1098.8	1101.2	1101.2	1103.7	1098.8	1098.8	1103.7	1096.3
5°	1083.8	1081.4	1083.8	1088.8	1091.3	1096.3	1106.2	1103.7	1108.7	1113.7	1116.2
7.5°	1076.4	1073.9	1081.4	1083.8	1091.3	1101.2	1116.2	1126.1	1131.1	1141.0	1136.0
10°	1083.8	1083.8	1093.8	1101.2	1113.7	1126.1	1138.5	1148.5	1160.9	1168.4	1165.9
12.5°	1096.3	1093.8	1111.2	1121.1	1138.5	1151.0	1160.9	1165.9	1175.8	1185.8	1183.3
15°	1108.7	1111.2	1136.0	1155.9	1175.8	1180.8	1183.3	1178.3	1183.3	1188.3	1188.3
17.5°	1133.6	1136.0	1163.4	1185.8	1203.2	1198.2	1185.8	1173.3	1173.3	1175.8	1178.3
20°	1153.4	1158.4	1190.7	1210.6	1220.6	1200.7	1180.8	1165.9	1158.4	1160.9	1158.4
22.5°	1175.8	1185.8	1218.1	1228.0	1213.1	1188.3	1163.4	1143.5	1143.5	1146.0	1146.0
25°	1203.2	1208.1	1230.5	1225.5	1198.2	1160.9	1141.0	1133.6	1131.1	1133.6	1136.0
27.5°	1228.0	1230.5	1242.9	1208.1	1155.9	1116.2	1108.7	1111.2	1113.7	1116.2	1118.6
30°	1260.3	1265.3	1252.9	1183.3	1103.7	1059.0	1059.0	1073.9	1078.9	1086.3	1083.8
32.5°	1300.1	1305.1	1267.8	1151.0	1036.6	991.9	994.4	1016.7	1031.6	1036.6	1039.1
35°	1367.2	1357.3	1277.7	1106.2	964.5	909.8	912.3	939.7	959.6	967.0	962.0
37.5°	1449.3	1446.8	1292.7	1049.0	875.0	825.3	827.8	840.2	860.1	862.6	865.1
40°	1586.0	1566.1	1317.5	974.5	785.5	738.3	733.3	740.8	738.3	743.3	745.8
42.5°	1782.4	1730.2	1349.8	889.9	706.0	656.3	651.3	638.9	624.0	609.0	601.6
45°	2013.6	1931.5	1389.6	802.9	624.0	579.2	566.8	551.9	522.0	489.7	479.8
47.5°	2311.9	2155.3	1434.4	715.9	546.9	512.1	502.1	479.8	445.0	407.7	400.2
50°	2617.6	2418.8	1479.1	643.8	484.7	464.9	454.9	432.5	387.8	353.0	345.5
52.5°	2973.1	2679.8	1526.3	579.2	430.1	430.1	422.6	387.8	345.5	313.2	308.2
55°	3383.3	2948.3	1600.9	517.1	390.3	400.2	390.3	355.5	315.7	293.3	290.8
57.5°	3873.0	3288.8	1695.4	449.9	355.5	362.9	362.9	338.1	310.7	295.8	293.3
60°	4365.2	3634.4	1755.0	400.2	328.1	335.6	350.5	338.1	320.7	313.2	310.7
62.5°	4837.5	3987.4	1653.1	358.0	300.8	323.2	360.5	362.9	345.5	348.0	348.0
65°	5190.5	4255.8	1337.4	320.7	283.4	330.6	390.3	392.8	362.9	355.5	353.0
67.5°	5312.3	4330.4	899.9	295.8	273.4	335.6	425.1	415.1	362.9	348.0	340.6
70°	5081.1	4057.0	584.2	273.4	258.5	330.6	452.4	427.6	360.5	338.1	328.1
72.5°	4260.8	3460.3	390.3	253.6	243.6	325.7	469.8	427.6	353.0	320.7	310.7
75°	2958.2	2364.1	290.8	228.7	221.2	318.2	474.8	420.1	335.6	300.8	293.3
76°	2374.0	1772.4	263.5	218.8	211.3	313.2	472.3	412.7	323.2	290.8	283.4
77.5°	1499.0	1019.2	221.2	201.4	196.4	303.3	462.4	395.3	305.8	273.4	266.0
80°	524.5	372.9	169.0	164.1	166.6	280.9	435.0	360.5	271.0	241.1	231.2
82.5°	208.8	171.5	126.8	126.8	131.8	241.1	392.8	318.2	236.2	198.9	184.0
85°	82.0	74.6	89.5	89.5	94.5	196.4	328.1	248.6	161.6	124.3	119.3
87.5°	24.9	34.8	39.8	42.3	44.7	99.4	186.4	109.4	72.1	52.2	42.3
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)