

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: P595305

Luminaire Tested: **IST-PA1E-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595305
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-PA1E-740-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10152 lumens
Efficiency: N/A
Efficacy: 124.6 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

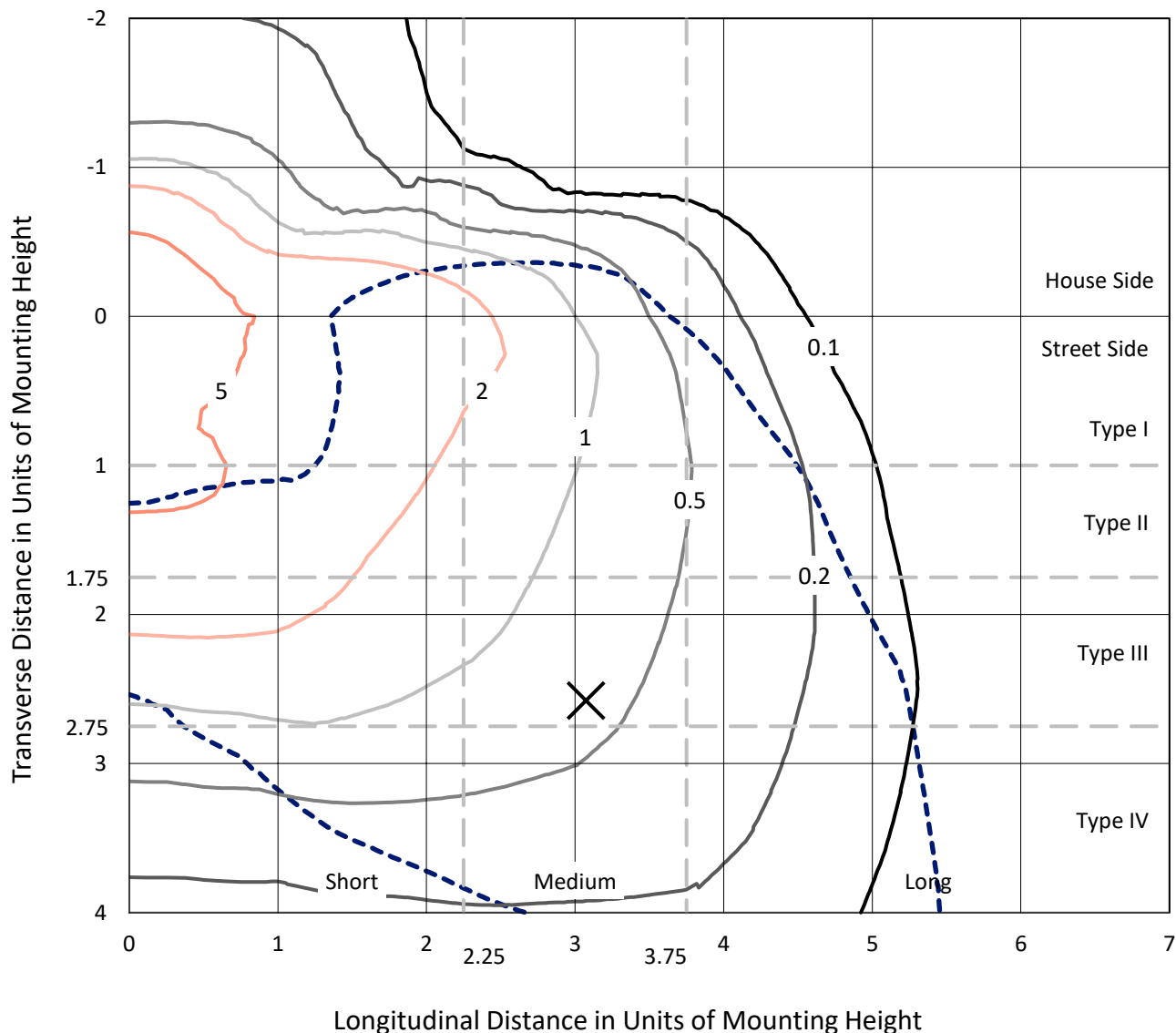
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

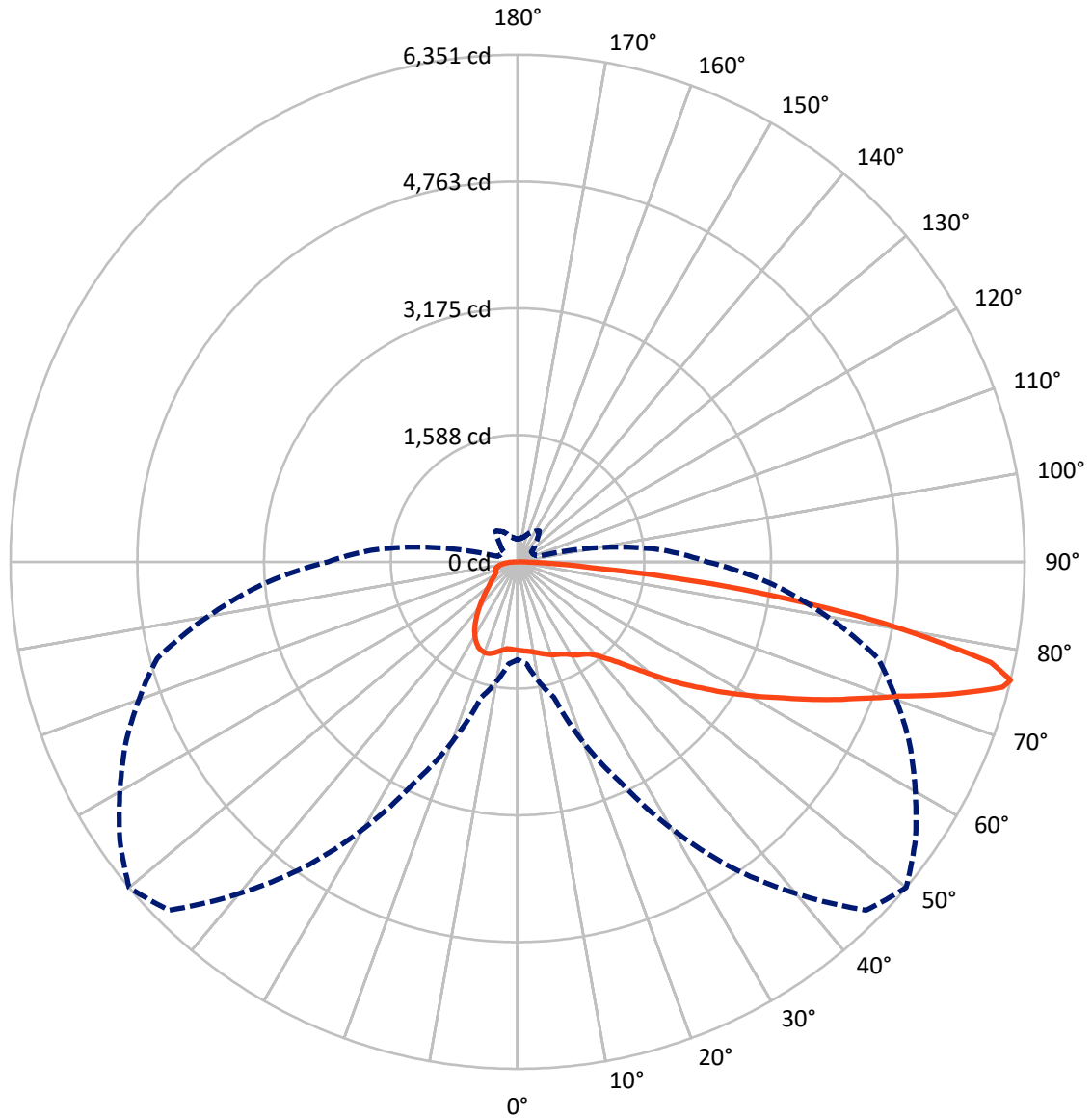
× Max cd
 - - - 1/2 Max cd



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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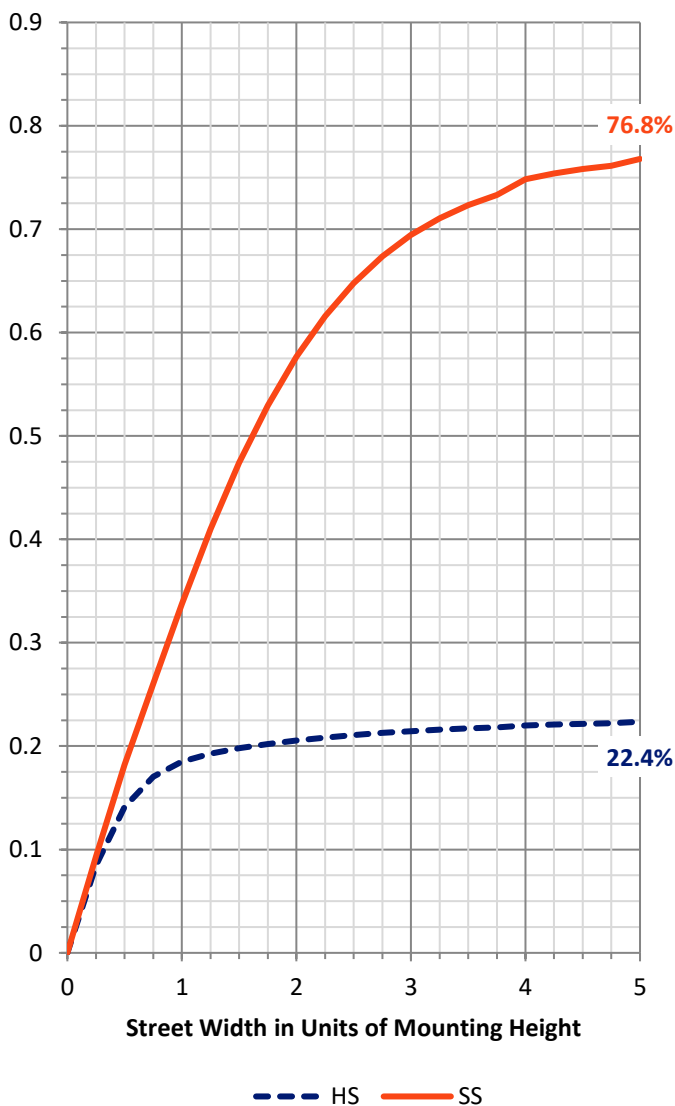
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.4	0.0	2322.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7829.6	0.0	7829.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	10152.0	0.0	10152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.1
10°-20°	337.8	3.3
20°-30°	570.6	5.6
30°-40°	782.2	7.7
40°-50°	1152.0	11.3
50°-60°	1812.2	17.9
60°-70°	2608.5	25.7
70°-80°	2371.8	23.4
80°-90°	409.5	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°	10152.0	100.0
0°-180°	10152.0	100.0

Coefficient of Utilization

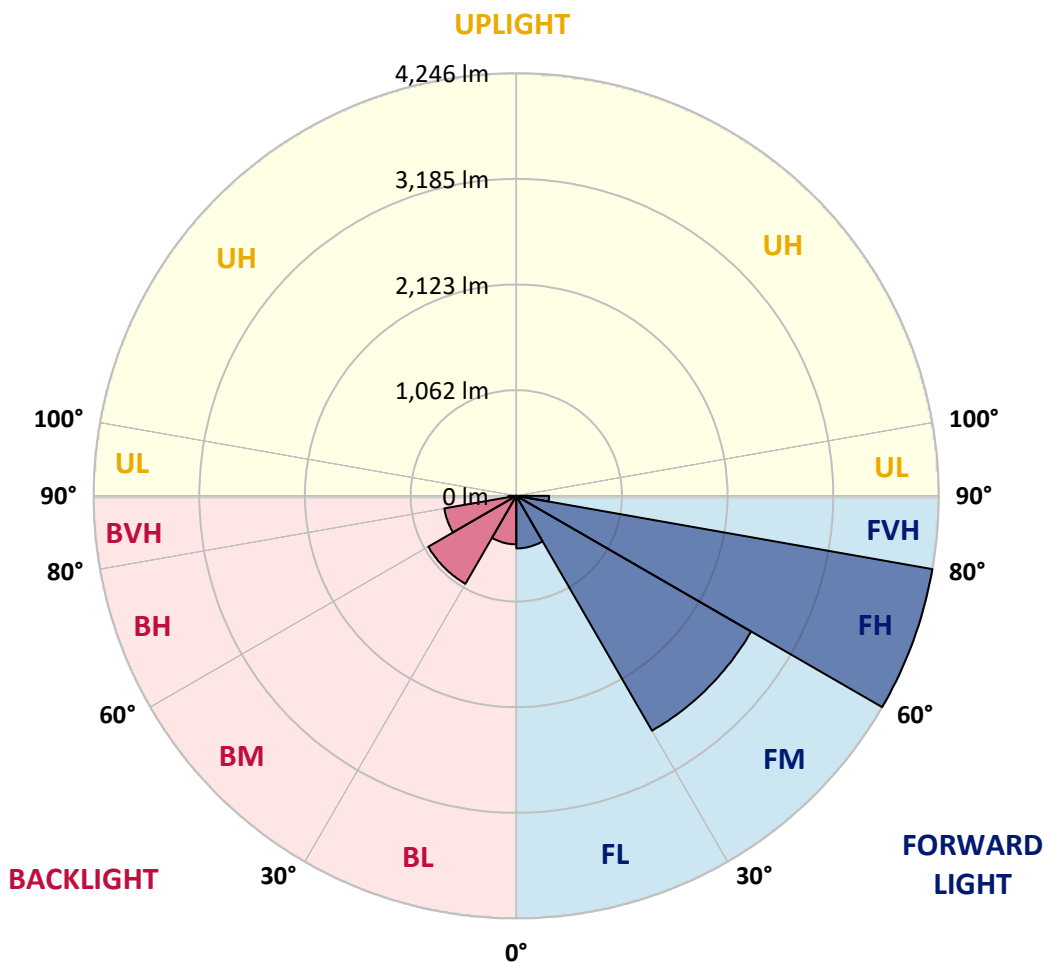


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.4	5.2			
FM (30°-60°)	2725.6	26.8			
FH (60°-80°)	4246.0	41.8			G2/5000
FVH (80°-90°)	329.6	3.2			G3/500
BL (0°-30°)	487.5	4.8	B1/500		
BM (30°-60°)	1020.7	10.1	B2/2500		
BH (60°-80°)	734.3	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°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1131.4	1131.4	1133.9	1128.9	1128.9	1116.5	1116.5	1114.0	1109.0	1106.5	1101.6
5°	1173.7	1173.7	1166.2	1153.8	1146.3	1131.4	1124.0	1119.0	1109.0	1096.6	1084.2
7.5°	1218.4	1213.5	1208.5	1188.6	1173.7	1146.3	1133.9	1126.4	1106.5	1089.1	1081.7
10°	1265.7	1258.2	1245.8	1220.9	1198.5	1166.2	1151.3	1141.4	1119.0	1104.1	1086.7
12.5°	1293.0	1293.0	1278.1	1248.3	1218.4	1178.7	1171.2	1158.8	1136.4	1116.5	1099.1
15°	1320.4	1322.9	1308.0	1273.1	1238.3	1208.5	1196.1	1188.6	1163.7	1133.9	1111.5
17.5°	1347.7	1345.3	1330.3	1290.6	1253.3	1225.9	1218.4	1208.5	1183.6	1156.3	1133.9
20°	1367.6	1362.7	1357.7	1308.0	1270.7	1253.3	1243.3	1235.8	1211.0	1181.1	1151.3
22.5°	1372.6	1377.6	1372.6	1312.9	1283.1	1263.2	1260.7	1253.3	1233.4	1206.0	1176.2
25°	1375.1	1377.6	1385.0	1327.9	1300.5	1285.6	1280.6	1275.6	1260.7	1238.3	1198.5
27.5°	1387.5	1390.0	1390.0	1337.8	1322.9	1312.9	1308.0	1308.0	1300.5	1273.1	1233.4
30°	1390.0	1392.5	1397.5	1362.7	1357.7	1350.2	1352.7	1350.2	1337.8	1308.0	1263.2
32.5°	1407.4	1409.9	1422.3	1377.6	1382.6	1390.0	1392.5	1390.0	1365.2	1340.3	1303.0
35°	1464.6	1462.1	1472.1	1414.9	1409.9	1412.4	1419.9	1417.4	1407.4	1385.0	1360.2
37.5°	1648.6	1648.6	1621.3	1501.9	1464.6	1459.6	1464.6	1477.1	1479.5	1459.6	1439.8
40°	1971.9	1954.5	1939.6	1681.0	1561.6	1531.8	1546.7	1554.1	1574.0	1574.0	1574.0
42.5°	2305.1	2307.6	2302.6	1959.5	1735.7	1661.1	1663.5	1681.0	1723.2	1730.7	1753.1
45°	2601.0	2618.4	2655.7	2282.7	1991.8	1825.2	1807.8	1825.2	1884.9	1934.6	1991.8
47.5°	2832.3	2812.4	2894.4	2620.9	2285.2	2049.0	2004.2	2009.2	2091.2	2170.8	2260.3
50°	3031.2	3036.2	3073.5	2966.5	2655.7	2302.6	2242.9	2233.0	2349.9	2434.4	2586.1
52.5°	3255.0	3240.1	3294.8	3269.9	3016.3	2613.4	2518.9	2489.1	2615.9	2735.3	2899.4
55°	3361.9	3376.8	3488.7	3550.9	3356.9	2891.9	2787.5	2797.4	2931.7	3058.5	3287.3
57.5°	3550.9	3565.8	3695.1	3824.4	3660.3	3187.8	3095.8	3095.8	3247.5	3389.3	3742.4
60°	3809.5	3812.0	3943.8	4167.6	3926.4	3473.8	3414.1	3411.6	3575.8	3739.9	4279.5
62.5°	3923.9	3953.7	4150.2	4441.1	4274.5	3824.4	3754.8	3774.7	3921.4	4112.9	4878.7
65°	3769.7	3834.4	4244.7	4625.1	4585.3	4190.0	4162.6	4190.0	4279.5	4485.9	5512.8
67.5°	3260.0	3347.0	4070.6	4749.4	4834.0	4612.7	4572.9	4567.9	4625.1	4856.4	5913.2
70°	2996.4	3048.6	3610.6	4796.7	5032.9	5040.4	5040.4	5008.0	5000.6	5169.7	5950.5
72.5°	2466.7	2521.4	3046.1	4533.1	5221.9	5612.3	5669.5	5550.1	5366.1	5331.3	5326.3
75°	1758.0	1797.8	2250.4	3565.8	4980.7	6161.8	6276.2	6045.0	5532.7	4978.2	3884.1
76°	1225.9	1283.1	1758.0	3046.1	4677.3	6171.8	6350.8	6082.3	5420.8	4674.8	3200.3
77.5°	621.7	641.5	1017.0	2046.5	3913.9	5888.3	6062.4	5761.5	4933.4	3777.2	2031.6
80°	236.2	243.7	363.0	746.0	2148.4	4572.9	4640.0	4234.7	3264.9	1613.8	731.1
82.5°	124.3	129.3	203.9	368.0	882.7	2514.0	2837.2	2362.3	1280.6	484.9	213.8
85°	62.2	67.1	119.4	223.8	437.6	785.8	910.1	860.4	425.2	184.0	79.6
87.5°	24.9	29.8	59.7	99.5	176.5	154.2	171.6	221.3	136.8	87.0	27.4
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°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1101.6	1099.1	1101.6	1099.1	1101.6	1101.6	1104.1	1099.1	1099.1	1104.1	1096.6
5°	1084.2	1081.7	1084.2	1089.1	1091.6	1096.6	1106.5	1104.1	1109.0	1114.0	1116.5
7.5°	1076.7	1074.2	1081.7	1084.2	1091.6	1101.6	1116.5	1126.4	1131.4	1141.4	1136.4
10°	1084.2	1084.2	1094.1	1101.6	1114.0	1126.4	1138.9	1148.8	1161.3	1168.7	1166.2
12.5°	1096.6	1094.1	1111.5	1121.5	1138.9	1151.3	1161.3	1166.2	1176.2	1186.1	1183.6
15°	1109.0	1111.5	1136.4	1156.3	1176.2	1181.1	1183.6	1178.7	1183.6	1188.6	1188.6
17.5°	1133.9	1136.4	1163.7	1186.1	1203.5	1198.5	1186.1	1173.7	1173.7	1176.2	1178.7
20°	1153.8	1158.8	1191.1	1211.0	1220.9	1201.0	1181.1	1166.2	1158.8	1161.3	1158.8
22.5°	1176.2	1186.1	1218.4	1228.4	1213.5	1188.6	1163.7	1143.8	1143.8	1146.3	1146.3
25°	1203.5	1208.5	1230.9	1225.9	1198.5	1161.3	1141.4	1133.9	1131.4	1133.9	1136.4
27.5°	1228.4	1230.9	1243.3	1208.5	1156.3	1116.5	1109.0	1111.5	1114.0	1116.5	1119.0
30°	1260.7	1265.7	1253.3	1183.6	1104.1	1059.3	1059.3	1074.2	1079.2	1086.7	1084.2
32.5°	1300.5	1305.5	1268.2	1151.3	1036.9	992.2	994.6	1017.0	1031.9	1036.9	1039.4
35°	1367.6	1357.7	1278.1	1106.5	964.8	910.1	912.6	939.9	959.8	967.3	962.3
37.5°	1449.7	1447.2	1293.0	1049.4	875.3	825.6	828.0	840.5	860.4	862.9	865.3
40°	1586.5	1566.6	1317.9	974.8	785.8	738.5	733.6	741.0	738.5	743.5	746.0
42.5°	1782.9	1730.7	1350.2	890.2	706.2	656.5	651.5	639.1	624.1	609.2	601.8
45°	2014.2	1932.1	1390.0	803.2	624.1	579.4	566.9	552.0	522.2	489.9	479.9
47.5°	2312.6	2155.9	1434.8	716.1	547.1	512.2	502.3	479.9	445.1	407.8	400.3
50°	2618.4	2419.5	1479.5	644.0	484.9	465.0	455.1	432.7	387.9	353.1	345.6
52.5°	2974.0	2680.6	1526.8	579.4	430.2	430.2	422.7	387.9	345.6	313.3	308.3
55°	3384.3	2949.1	1601.4	517.2	390.4	400.3	390.4	355.6	315.8	293.4	290.9
57.5°	3874.2	3289.8	1695.9	450.1	355.6	363.0	363.0	338.2	310.8	295.9	293.4
60°	4366.5	3635.4	1755.6	400.3	328.2	335.7	350.6	338.2	320.8	313.3	310.8
62.5°	4839.0	3988.5	1653.6	358.1	300.9	323.3	360.6	363.0	345.6	348.1	348.1
65°	5192.1	4257.1	1337.8	320.8	283.5	330.7	390.4	392.9	363.0	355.6	353.1
67.5°	5313.9	4331.7	900.2	295.9	273.5	335.7	425.2	415.3	363.0	348.1	340.7
70°	5082.6	4058.2	584.4	273.5	258.6	330.7	452.6	427.7	360.6	338.2	328.2
72.5°	4262.1	3461.4	390.4	253.6	243.7	325.7	470.0	427.7	353.1	320.8	310.8
75°	2959.1	2364.8	290.9	228.8	221.3	318.3	474.9	420.2	335.7	300.9	293.4
76°	2374.7	1773.0	263.6	218.8	211.4	313.3	472.5	412.8	323.3	290.9	283.5
77.5°	1499.4	1019.5	221.3	201.4	196.4	303.4	462.5	395.4	305.9	273.5	266.1
80°	524.7	373.0	169.1	164.1	166.6	281.0	435.2	360.6	271.0	241.2	231.3
82.5°	208.9	171.6	126.8	126.8	131.8	241.2	392.9	318.3	236.2	198.9	184.0
85°	82.1	74.6	89.5	89.5	94.5	196.4	328.2	248.7	161.6	124.3	119.4
87.5°	24.9	34.8	39.8	42.3	44.8	99.5	186.5	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)