

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: P595285

Luminaire Tested: **IST-PA1E-730-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595285  
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: IST-PA1E-730-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9237 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

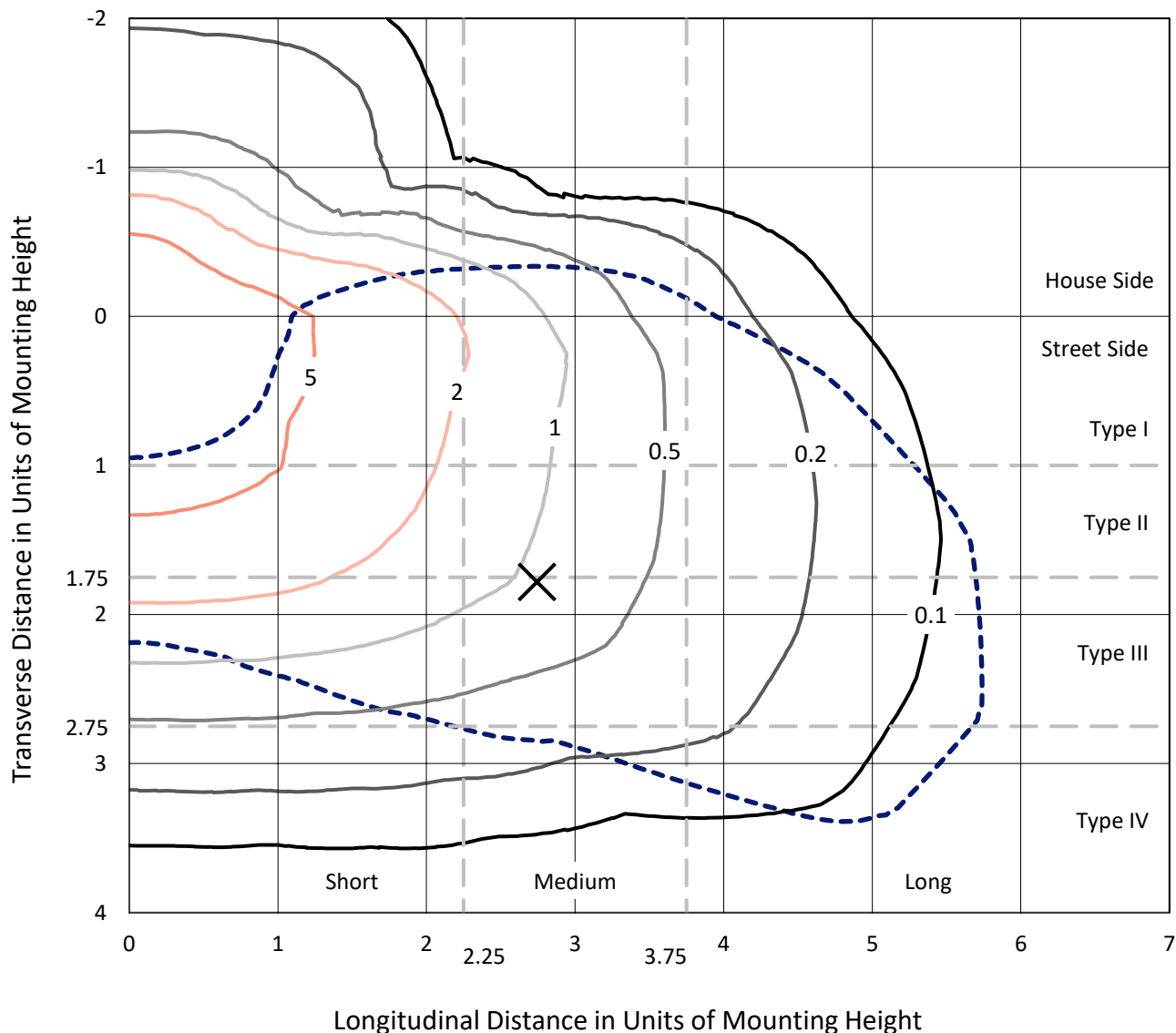
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

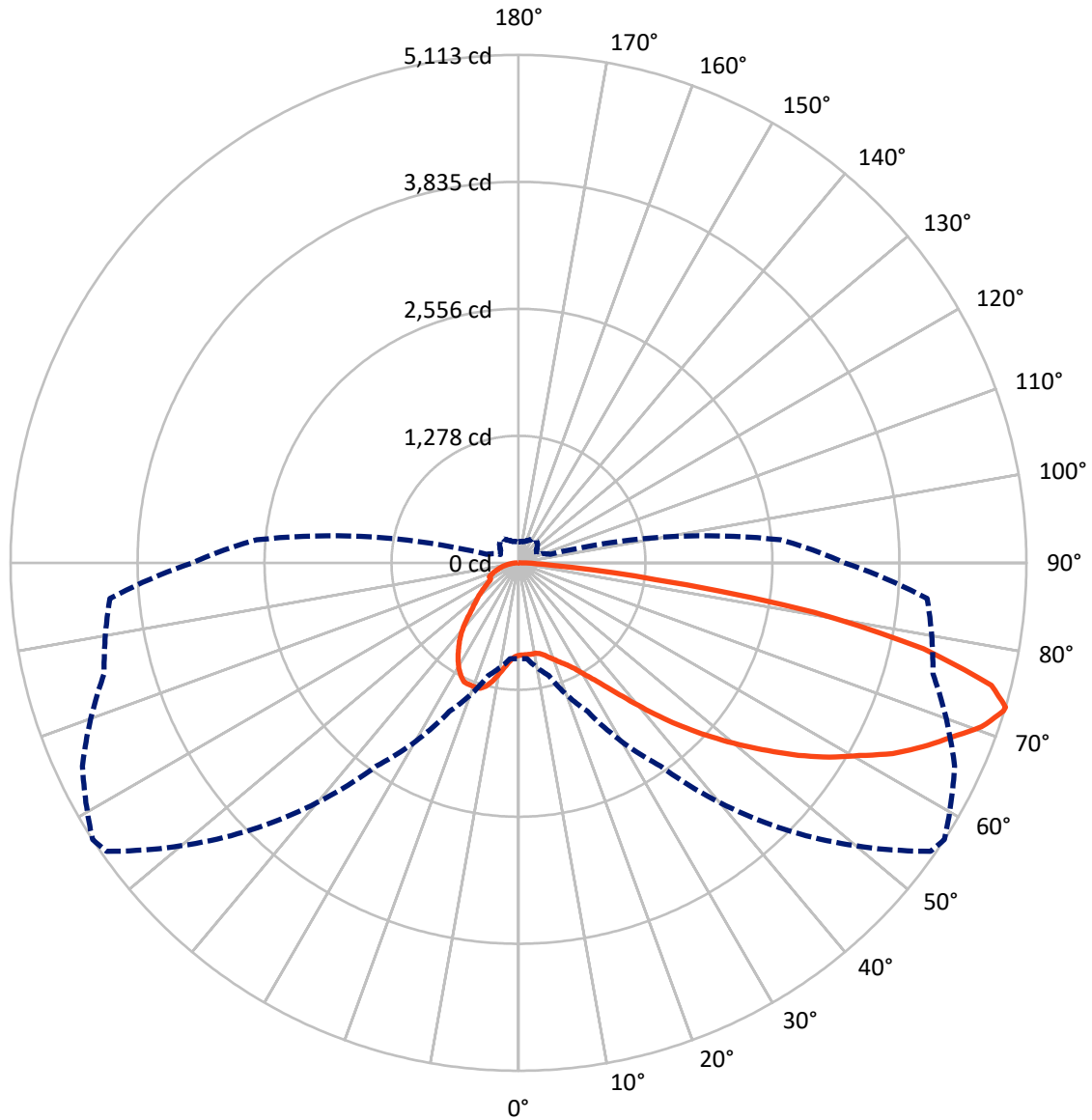
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.9 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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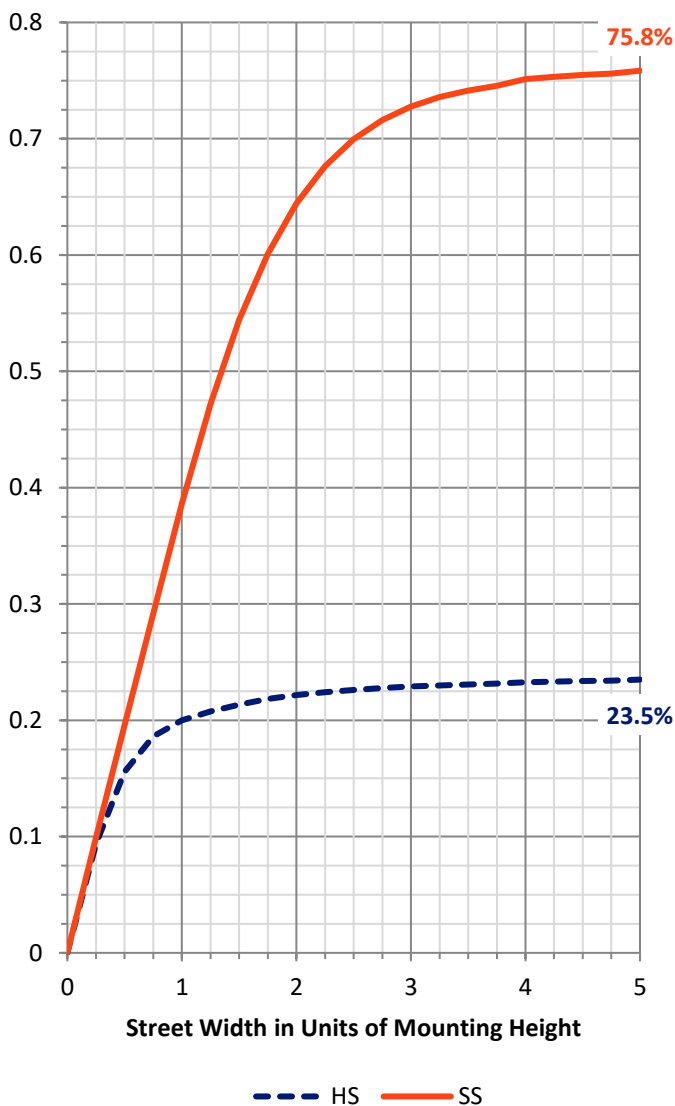
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2203.6	0.0	2203.6
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7033.4	0.0	7033.4
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	9237.0	0.0	9237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	1.0
10°-20°	305.6	3.3
20°-30°	564.1	6.1
30°-40°	871.1	9.4
40°-50°	1311.2	14.2
50°-60°	1919.1	20.8
60°-70°	2266.2	24.5
70°-80°	1622.5	17.6
80°-90°	284.3	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°	9237.0	100.0
0°-180°	9237.0	100.0

**Coefficient of Utilization**

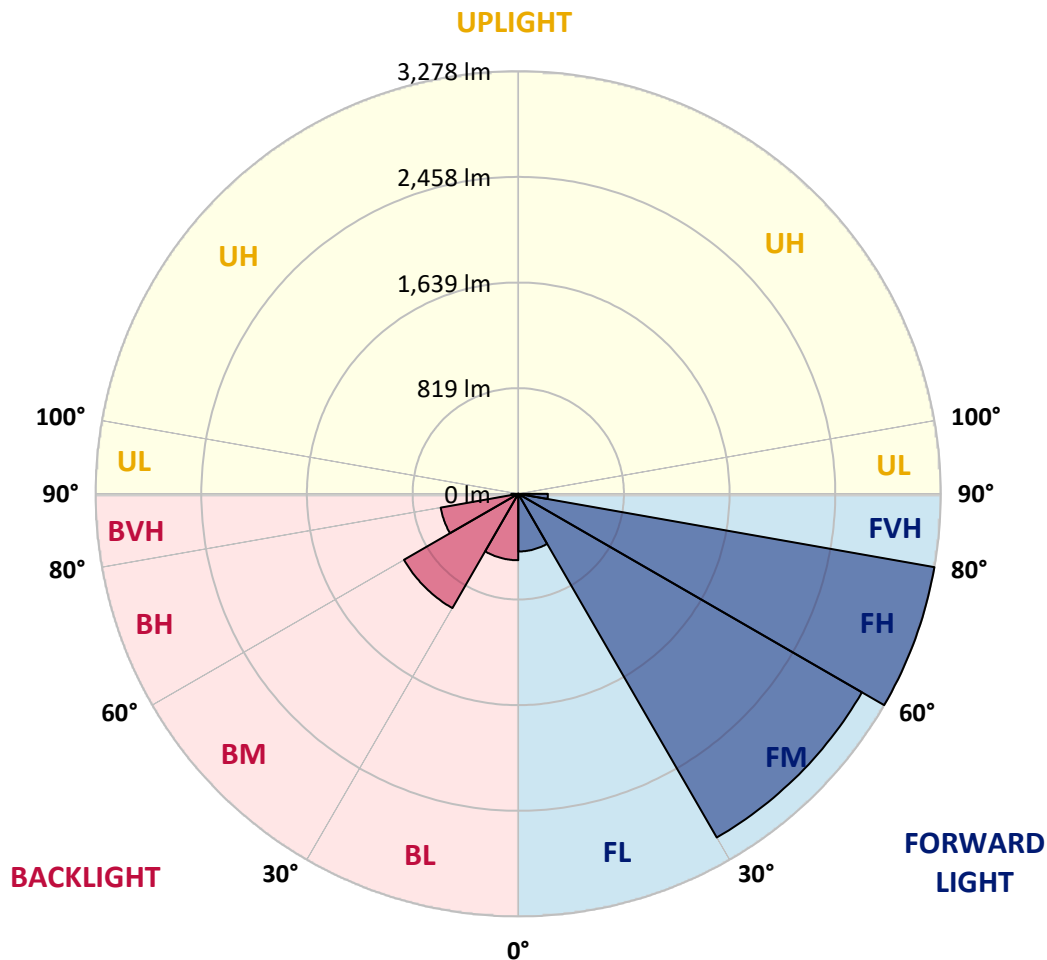


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.6	4.8			
FM (30°-60°)	3078.0	33.3			
FH (60°-80°)	3277.8	35.5			G2/5000
FVH (80°-90°)	230.0	2.5			G3/500
BL (0°-30°)	515.0	5.6	B2/1000		
BM (30°-60°)	1023.4	11.1	B2/2500		
BH (60°-80°)	611.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	54.3	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°	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6
2.5°	919.3	923.8	921.6	923.8	930.6	926.1	926.1	928.4	930.6	928.4	932.9
5°	880.8	883.1	887.6	896.7	912.5	917.0	928.4	928.4	932.9	937.4	944.2
7.5°	817.4	821.9	831.0	840.1	867.2	894.4	923.8	928.4	944.2	955.5	960.1
10°	806.1	810.6	812.9	826.5	853.6	880.8	917.0	926.1	955.5	973.7	994.0
12.5°	794.8	799.3	806.1	824.2	858.2	887.6	926.1	935.2	971.4	1007.6	1032.5
15°	803.8	806.1	812.9	831.0	865.0	905.7	955.5	962.3	1003.1	1048.4	1086.9
17.5°	826.5	828.7	826.5	842.3	874.0	921.6	989.5	1000.8	1050.6	1095.9	1134.4
20°	878.6	880.8	871.8	871.8	894.4	942.0	1025.7	1041.6	1102.7	1152.5	1191.0
22.5°	991.8	987.2	964.6	935.2	935.2	973.7	1066.5	1089.1	1166.1	1206.9	1240.8
25°	1152.5	1152.5	1116.3	1062.0	1025.7	1021.2	1114.0	1138.9	1229.5	1279.3	1299.7
27.5°	1347.3	1349.5	1290.7	1218.2	1148.0	1114.0	1182.0	1206.9	1308.8	1360.9	1367.6
30°	1519.4	1521.6	1462.7	1394.8	1308.8	1234.0	1272.5	1299.7	1417.5	1458.2	1435.6
32.5°	1691.4	1693.7	1652.9	1560.1	1469.5	1376.7	1388.0	1403.9	1523.9	1562.4	1526.1
35°	1840.9	1847.7	1806.9	1736.7	1641.6	1557.8	1537.5	1539.7	1648.4	1673.3	1625.8
37.5°	1992.6	1992.6	1967.7	1902.0	1820.5	1727.7	1700.5	1707.3	1804.7	1829.6	1761.6
40°	2185.1	2194.1	2180.5	2099.0	2006.2	1929.2	1902.0	1911.1	2017.5	2003.9	1931.5
42.5°	2418.3	2438.7	2416.0	2327.7	2228.1	2142.0	2142.0	2142.0	2232.6	2234.9	2126.2
45°	2717.2	2717.2	2694.5	2617.5	2486.2	2400.2	2370.7	2377.5	2456.8	2465.8	2339.0
47.5°	2966.2	2988.9	2964.0	2907.4	2803.2	2721.7	2628.9	2617.5	2683.2	2683.2	2574.5
50°	3167.8	3208.5	3188.1	3213.1	3138.3	3097.6	2907.4	2875.7	2898.3	2921.0	2801.0
52.5°	3335.3	3367.0	3360.2	3432.7	3468.9	3491.6	3190.4	3140.6	3158.7	3156.4	3047.8
55°	3346.7	3358.0	3459.9	3622.9	3765.5	3872.0	3475.7	3421.4	3403.3	3394.2	3310.4
57.5°	3281.0	3287.8	3491.6	3684.0	3994.2	4116.5	3745.2	3690.8	3665.9	3634.2	3600.3
60°	3122.5	3156.4	3423.6	3720.3	4130.1	4306.7	3996.5	3939.9	3921.8	3853.9	3930.8
62.5°	2921.0	2936.8	3204.0	3645.5	4148.2	4388.2	4261.4	4227.5	4170.9	4073.5	4225.2
65°	2635.7	2633.4	2868.9	3425.9	4055.4	4429.0	4485.6	4467.5	4397.3	4229.7	4487.9
67.5°	2164.7	2216.8	2447.7	3036.4	3831.2	4469.7	4714.3	4691.7	4580.7	4370.1	4612.4
70°	1650.7	1682.4	1945.0	2452.2	3385.1	4358.8	4938.5	4945.3	4743.7	4399.6	4558.1
72.5°	1052.9	1107.2	1315.6	1786.5	2710.4	3946.7	5072.1	5103.8	4834.3	4358.8	4220.7
73°	964.6	969.1	1172.9	1652.9	2499.8	3799.5	5063.0	5112.8	4843.4	4318.0	4127.8
75°	575.1	600.0	722.3	1098.2	1784.3	3052.3	4818.5	4918.1	4795.8	4136.9	3618.4
77.5°	269.5	287.6	355.5	579.7	971.4	1836.4	4050.9	4168.6	4250.1	3620.6	2757.9
80°	142.7	144.9	174.4	292.1	520.8	756.3	2823.6	3018.3	3133.8	2726.2	1854.5
82.5°	120.0	120.0	135.9	187.9	332.9	294.4	1163.9	1385.8	1698.2	1342.7	729.1
85°	97.4	99.6	135.9	140.4	237.8	151.7	278.5	348.7	658.9	593.2	81.5
87.5°	31.7	36.2	77.0	99.6	126.8	58.9	70.2	77.0	77.0	113.2	27.2
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°	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6	930.6
2.5°	935.2	935.2	937.4	939.7	944.2	944.2	948.7	951.0	955.5	957.8	951.0
5°	944.2	948.7	953.3	966.9	982.7	996.3	1009.9	1021.2	1032.5	1039.3	1037.1
7.5°	969.1	975.9	994.0	1018.9	1050.6	1071.0	1091.4	1111.8	1120.8	1125.4	1125.4
10°	1003.1	1016.7	1050.6	1091.4	1127.6	1159.3	1175.2	1188.8	1193.3	1197.8	1193.3
12.5°	1050.6	1068.8	1120.8	1172.9	1213.7	1229.5	1227.3	1209.1	1184.2	1179.7	1175.2
15°	1111.8	1134.4	1193.3	1254.4	1286.1	1265.7	1213.7	1195.6	1191.0	1204.6	1200.1
17.5°	1163.9	1191.0	1263.5	1326.9	1320.1	1249.9	1234.0	1243.1	1238.6	1240.8	1240.8
20°	1213.7	1252.2	1329.2	1372.2	1313.3	1268.0	1254.4	1243.1	1229.5	1234.0	1229.5
22.5°	1277.1	1304.2	1392.6	1394.8	1304.2	1268.0	1238.6	1215.9	1211.4	1213.7	1215.9
25°	1326.9	1369.9	1446.9	1379.0	1304.2	1231.8	1191.0	1186.5	1188.8	1202.3	1197.8
27.5°	1394.8	1437.8	1489.9	1369.9	1249.9	1172.9	1157.1	1154.8	1138.9	1143.5	1143.5
30°	1458.2	1510.3	1512.6	1369.9	1182.0	1123.1	1100.5	1059.7	1025.7	1032.5	1030.3
32.5°	1544.3	1589.5	1517.1	1315.6	1105.0	1057.4	996.3	932.9	917.0	926.1	928.4
35°	1643.9	1680.1	1521.6	1225.0	1028.0	964.6	853.6	817.4	815.2	821.9	828.7
37.5°	1775.2	1795.6	1555.6	1120.8	953.3	819.7	733.6	724.6	704.2	690.6	692.9
40°	1936.0	1911.1	1621.2	1028.0	865.0	688.4	652.1	627.2	588.7	550.2	557.0
42.5°	2114.9	2044.7	1641.6	953.3	745.0	606.8	572.9	534.4	486.8	446.1	443.8
45°	2307.3	2194.1	1623.5	894.4	624.9	545.7	509.5	464.2	407.6	373.6	373.6
47.5°	2536.0	2336.8	1566.9	846.9	541.2	491.4	446.1	400.8	362.3	330.6	330.6
50°	2787.4	2502.1	1526.1	763.1	482.3	439.3	394.0	357.8	328.3	303.4	303.4
52.5°	3052.3	2658.3	1492.2	640.8	430.2	391.7	360.0	330.6	305.7	274.0	269.5
55°	3321.7	2807.7	1508.0	523.1	382.7	357.8	337.4	307.9	298.9	292.1	287.6
57.5°	3602.5	2970.8	1546.5	428.0	341.9	339.6	330.6	351.0	371.3	357.8	351.0
60°	3822.2	3097.6	1551.1	360.0	317.0	357.8	403.0	409.8	355.5	323.8	321.5
62.5°	3996.5	3217.6	1444.6	312.5	323.8	421.2	430.2	362.3	307.9	294.4	294.4
65°	4087.1	3260.6	1161.6	285.3	337.4	403.0	389.5	326.1	287.6	285.3	285.3
67.5°	4041.8	3226.6	812.9	255.9	298.9	348.7	348.7	298.9	264.9	276.2	271.7
70°	3824.4	3059.1	536.6	231.0	262.7	314.7	323.8	278.5	246.8	253.6	246.8
72.5°	3371.6	2760.2	353.2	203.8	226.4	278.5	301.2	255.9	226.4	224.2	217.4
73°	3283.3	2647.0	332.9	199.3	219.6	269.5	294.4	251.3	221.9	215.1	210.6
75°	2785.1	2207.7	251.3	178.9	194.7	242.3	274.0	235.5	203.8	194.7	190.2
77.5°	2028.8	1530.7	187.9	151.7	163.0	210.6	242.3	215.1	181.1	169.8	167.6
80°	1265.7	833.3	140.4	122.3	129.1	176.6	212.8	192.5	156.2	142.7	140.4
82.5°	495.9	271.7	97.4	90.6	95.1	133.6	178.9	167.6	131.3	120.0	113.2
85°	81.5	92.8	63.4	61.1	61.1	95.1	135.9	129.1	88.3	77.0	67.9
87.5°	22.6	43.0	24.9	22.6	22.6	40.8	74.7	58.9	36.2	29.4	27.2
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)