

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: P595276

Luminaire Tested: **IST-PA1E-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595276  
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-727-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8482 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

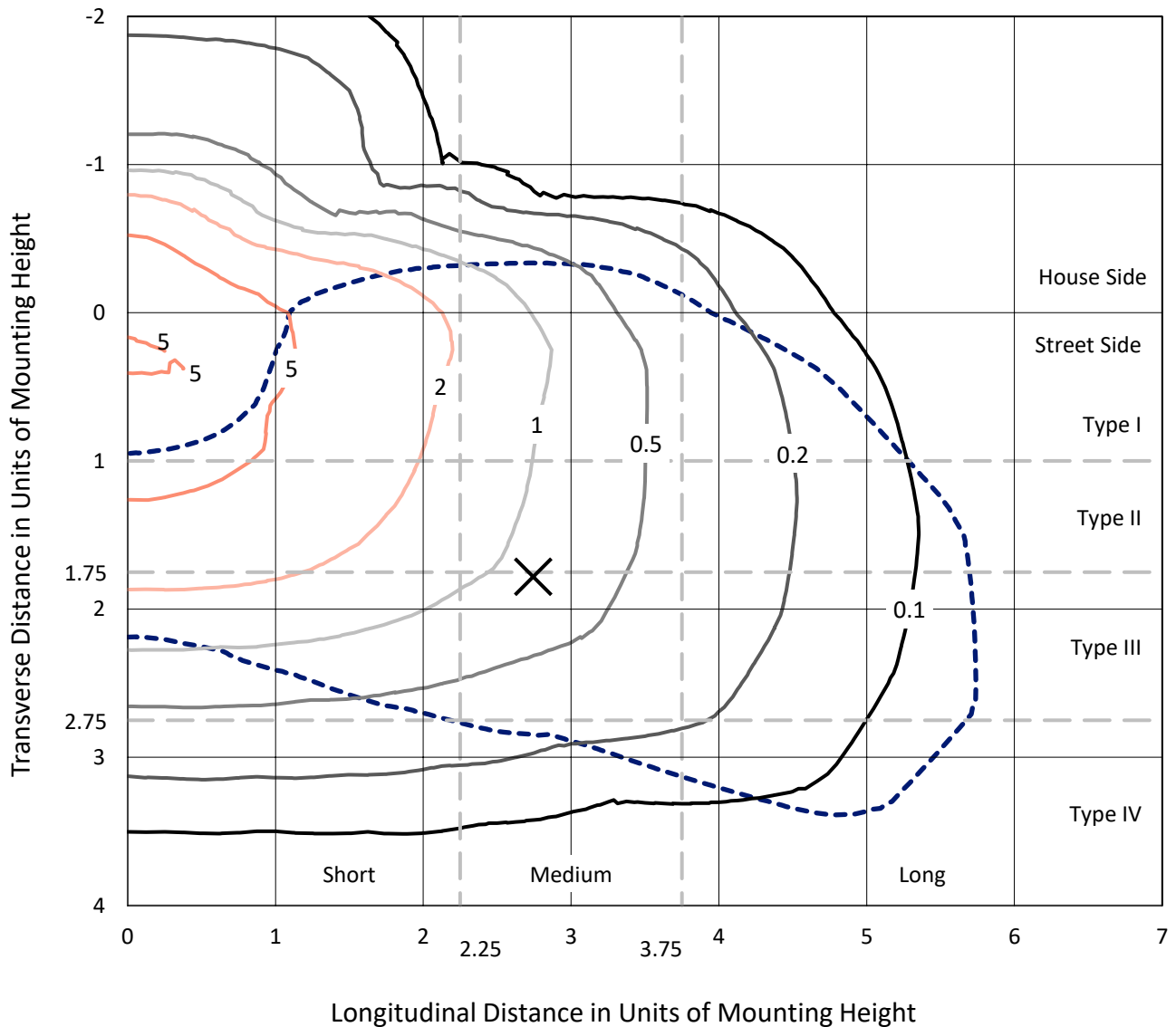
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

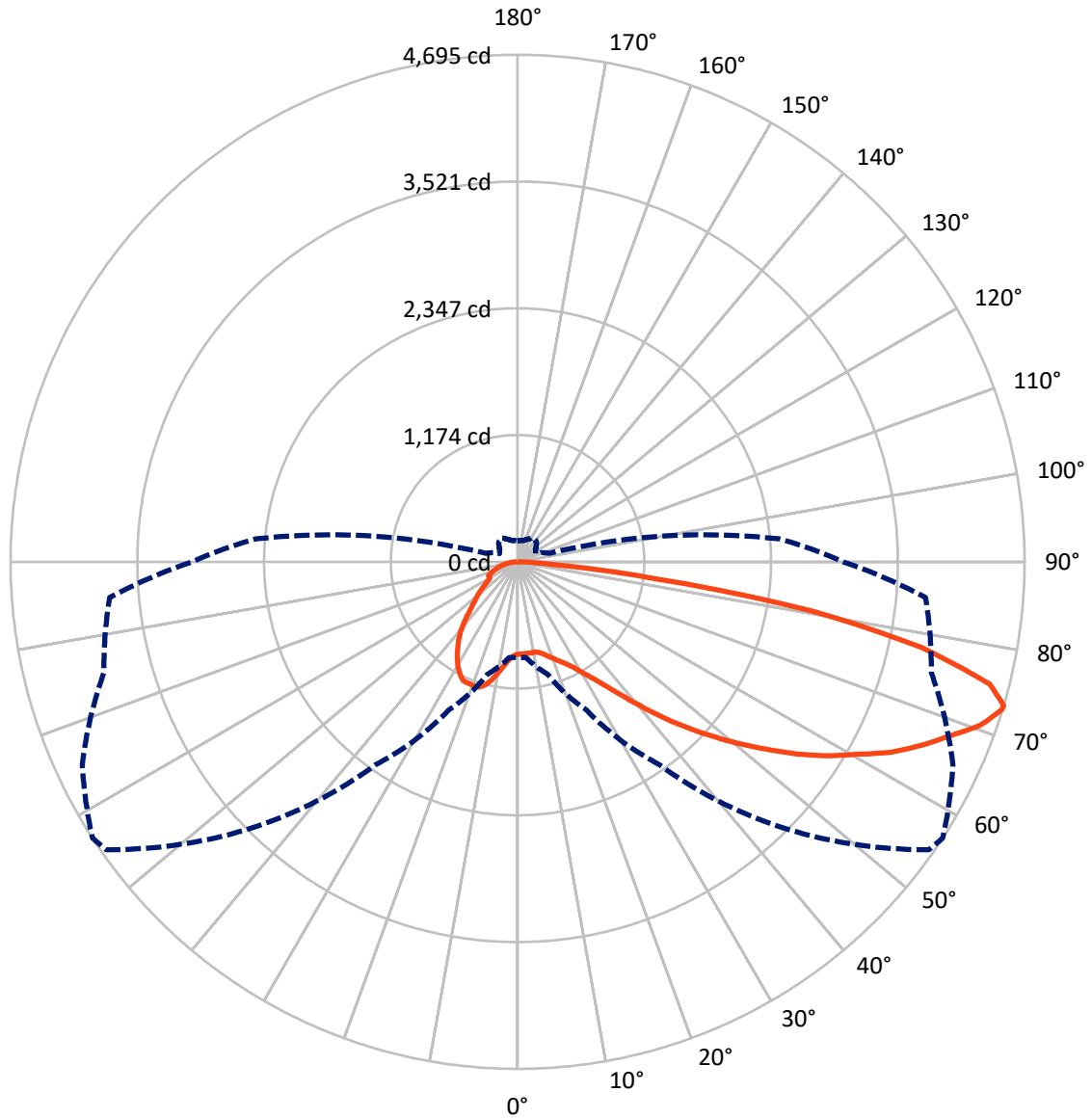
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 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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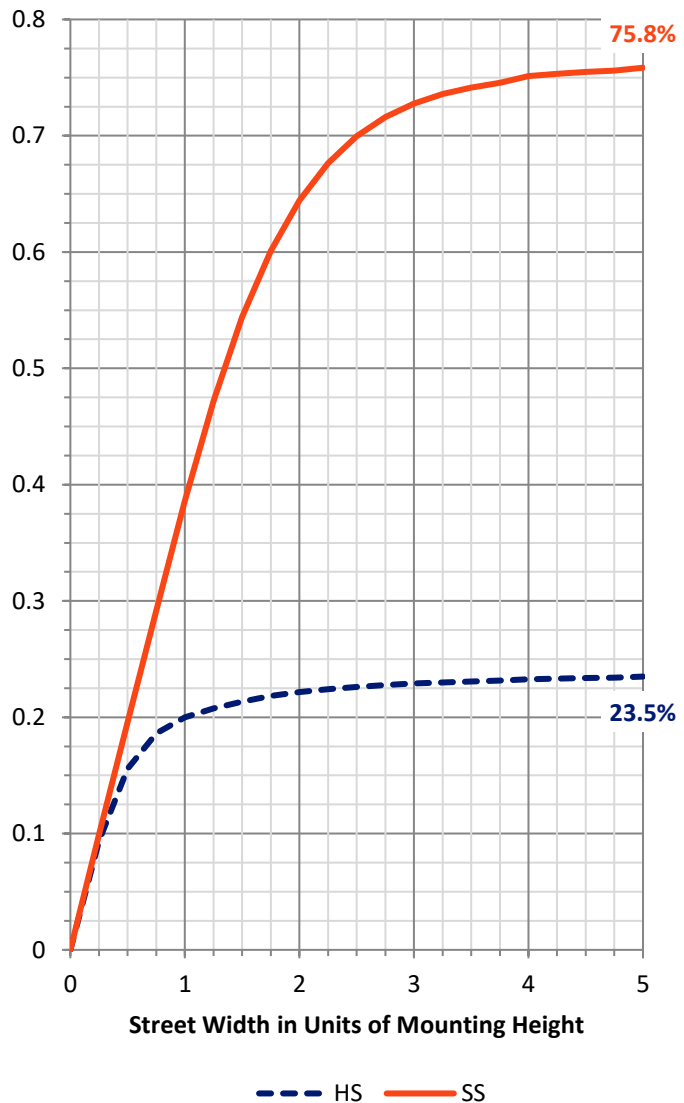
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2023.5	0.0	2023.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	6458.5	0.0	6458.5
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	8482.0	0.0	8482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.0
10°-20°	280.6	3.3
20°-30°	518.0	6.1
30°-40°	799.9	9.4
40°-50°	1204.0	14.2
50°-60°	1762.2	20.8
60°-70°	2081.0	24.5
70°-80°	1489.9	17.6
80°-90°	261.1	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°	8482.0	100.0
0°-180°	8482.0	100.0

**Coefficient of Utilization**

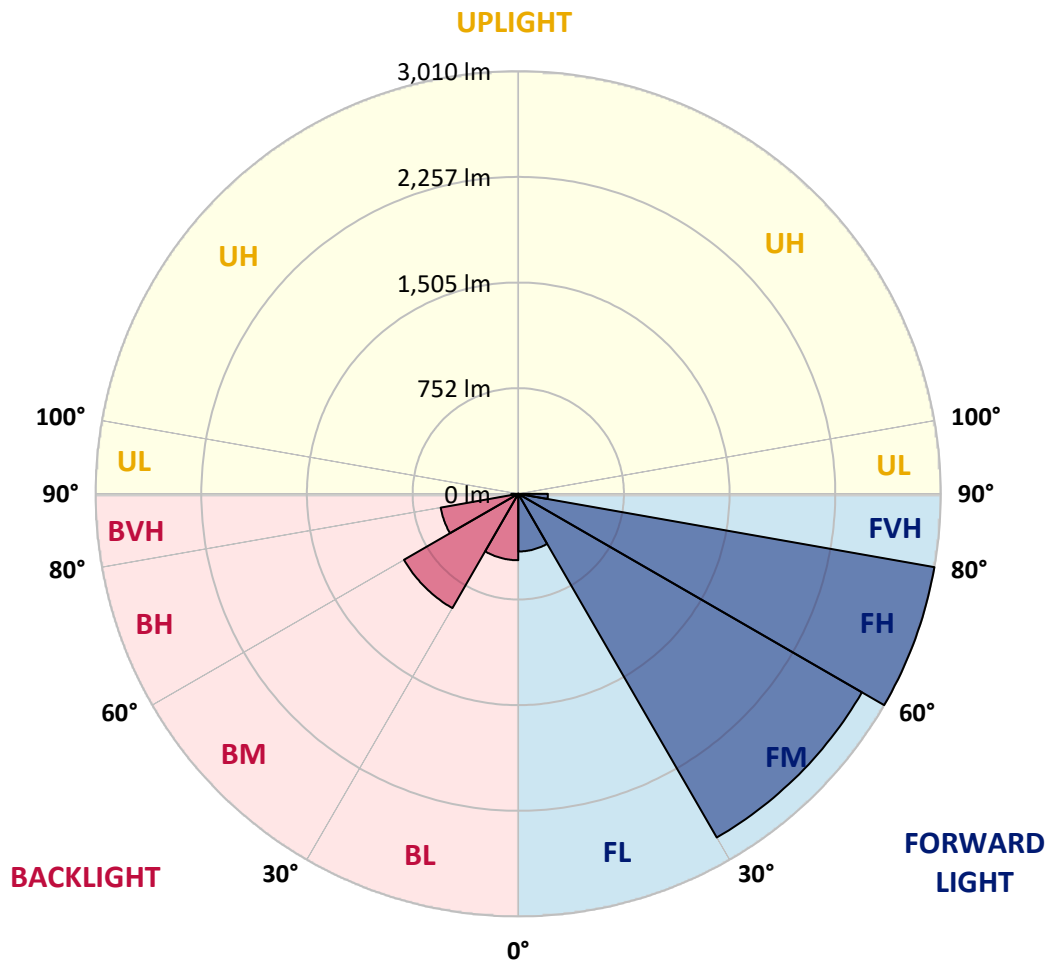


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.0	4.8			
FM (30°-60°)	2826.4	33.3			
FH (60°-80°)	3009.9	35.5			G2/5000
FVH (80°-90°)	211.2	2.5			G2/225
BL (0°-30°)	472.9	5.6	B1/500		
BM (30°-60°)	939.7	11.1	B1/1000		
BH (60°-80°)	561.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	49.9	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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	844.2	848.3	846.2	848.3	854.6	850.4	850.4	852.5	854.6	852.5	856.6
5°	808.8	810.9	815.1	823.4	837.9	842.1	852.5	852.5	856.6	860.8	867.0
7.5°	750.6	754.8	763.1	771.4	796.3	821.3	848.3	852.5	867.0	877.4	881.6
10°	740.2	744.4	746.4	758.9	783.9	808.8	842.1	850.4	877.4	894.1	912.8
12.5°	729.8	734.0	740.2	756.8	788.0	815.1	850.4	858.7	892.0	925.3	948.1
15°	738.1	740.2	746.4	763.1	794.3	831.7	877.4	883.7	921.1	962.7	998.0
17.5°	758.9	761.0	758.9	773.5	802.6	846.2	908.6	919.0	964.8	1006.3	1041.7
20°	806.7	808.8	800.5	800.5	821.3	865.0	941.9	956.4	1012.6	1058.3	1093.7
22.5°	910.7	906.5	885.8	858.7	858.7	894.1	979.3	1000.1	1070.8	1108.2	1139.4
25°	1058.3	1058.3	1025.1	975.2	941.9	937.7	1023.0	1045.9	1129.0	1174.8	1193.5
27.5°	1237.1	1239.2	1185.2	1118.6	1054.2	1023.0	1085.4	1108.2	1201.8	1249.6	1255.9
30°	1395.2	1397.2	1343.2	1280.8	1201.8	1133.2	1168.5	1193.5	1301.6	1339.0	1318.2
32.5°	1553.2	1555.3	1517.8	1432.6	1349.4	1264.2	1274.6	1289.1	1399.3	1434.7	1401.4
35°	1690.4	1696.7	1659.2	1594.8	1507.4	1430.5	1411.8	1413.9	1513.7	1536.6	1492.9
37.5°	1829.7	1829.7	1806.9	1746.6	1671.7	1586.5	1561.5	1567.7	1657.1	1680.0	1617.6
40°	2006.5	2014.8	2002.3	1927.4	1842.2	1771.5	1746.6	1754.9	1852.6	1840.1	1773.6
42.5°	2220.6	2239.3	2218.5	2137.5	2046.0	1967.0	1967.0	1967.0	2050.1	2052.2	1952.4
45°	2495.1	2495.1	2474.3	2403.6	2283.0	2204.0	2177.0	2183.2	2256.0	2264.3	2147.8
47.5°	2723.8	2744.6	2721.7	2669.7	2574.1	2499.2	2414.0	2403.6	2463.9	2463.9	2364.1
50°	2908.8	2946.3	2927.6	2950.4	2881.8	2844.4	2669.7	2640.6	2661.4	2682.2	2572.0
52.5°	3062.7	3091.8	3085.6	3152.1	3185.4	3206.2	2929.6	2883.9	2900.5	2898.5	2798.6
55°	3073.1	3083.5	3177.1	3326.8	3457.8	3555.5	3191.6	3141.7	3125.1	3116.8	3039.8
57.5°	3012.8	3019.0	3206.2	3382.9	3667.8	3780.0	3439.1	3389.2	3366.3	3337.2	3306.0
60°	2867.3	2898.5	3143.8	3416.2	3792.5	3954.7	3669.8	3617.9	3601.2	3538.9	3609.6
62.5°	2682.2	2696.8	2942.1	3347.6	3809.2	4029.6	3913.1	3881.9	3829.9	3740.5	3879.9
65°	2420.2	2418.1	2634.4	3145.9	3723.9	4067.0	4119.0	4102.3	4037.9	3884.0	4121.0
67.5°	1987.7	2035.6	2247.7	2788.3	3518.1	4104.4	4329.0	4308.2	4206.3	4012.9	4235.4
70°	1515.8	1544.9	1786.1	2251.8	3108.5	4002.5	4534.8	4541.0	4356.0	4040.0	4185.5
72.5°	966.8	1016.7	1208.0	1640.5	2488.8	3624.1	4657.5	4686.6	4439.2	4002.5	3875.7
73°	885.8	889.9	1077.0	1517.8	2295.5	3489.0	4649.2	4694.9	4447.5	3965.1	3790.4
75°	528.1	551.0	663.3	1008.4	1638.4	2802.8	4424.6	4516.1	4403.8	3798.8	3322.6
77.5°	247.4	264.1	326.4	532.3	892.0	1686.3	3719.7	3827.9	3902.7	3324.7	2532.5
80°	131.0	133.1	160.1	268.2	478.2	694.5	2592.8	2771.6	2877.7	2503.4	1702.9
82.5°	110.2	110.2	124.8	172.6	305.6	270.3	1068.7	1272.5	1559.4	1233.0	669.5
85°	89.4	91.5	124.8	128.9	218.3	139.3	255.7	320.2	605.1	544.8	74.9
87.5°	29.1	33.3	70.7	91.5	116.4	54.1	64.5	70.7	70.7	104.0	25.0
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°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	858.7	858.7	860.8	862.9	867.0	867.0	871.2	873.3	877.4	879.5	873.3
5°	867.0	871.2	875.4	887.8	902.4	914.9	927.3	937.7	948.1	954.4	952.3
7.5°	889.9	896.1	912.8	935.7	964.8	983.5	1002.2	1020.9	1029.2	1033.4	1033.4
10°	921.1	933.6	964.8	1002.2	1035.5	1064.6	1079.1	1091.6	1095.8	1099.9	1095.8
12.5°	964.8	981.4	1029.2	1077.0	1114.5	1129.0	1126.9	1110.3	1087.4	1083.3	1079.1
15°	1020.9	1041.7	1095.8	1151.9	1181.0	1162.3	1114.5	1097.8	1093.7	1106.2	1102.0
17.5°	1068.7	1093.7	1160.2	1218.4	1212.2	1147.7	1133.2	1141.5	1137.3	1139.4	1139.4
20°	1114.5	1149.8	1220.5	1260.0	1206.0	1164.4	1151.9	1141.5	1129.0	1133.2	1129.0
22.5°	1172.7	1197.6	1278.7	1280.8	1197.6	1164.4	1137.3	1116.5	1112.4	1114.5	1116.5
25°	1218.4	1257.9	1328.6	1266.3	1197.6	1131.1	1093.7	1089.5	1091.6	1104.1	1099.9
27.5°	1280.8	1320.3	1368.1	1257.9	1147.7	1077.0	1062.5	1060.4	1045.9	1050.0	1050.0
30°	1339.0	1386.8	1388.9	1257.9	1085.4	1031.3	1010.5	973.1	941.9	948.1	946.1
32.5°	1418.0	1459.6	1393.1	1208.0	1014.7	971.0	914.9	856.6	842.1	850.4	852.5
35°	1509.5	1542.8	1397.2	1124.9	944.0	885.8	783.9	750.6	748.5	754.8	761.0
37.5°	1630.1	1648.8	1428.4	1029.2	875.4	752.7	673.7	665.4	646.6	634.2	636.2
40°	1777.7	1754.9	1488.7	944.0	794.3	632.1	598.8	575.9	540.6	505.3	511.5
42.5°	1942.0	1877.5	1507.4	875.4	684.1	557.2	526.0	490.7	447.0	409.6	407.5
45°	2118.7	2014.8	1490.8	821.3	573.9	501.1	467.8	426.2	374.3	343.1	343.1
47.5°	2328.7	2145.8	1438.8	777.6	496.9	451.2	409.6	368.0	332.7	303.6	303.6
50°	2559.5	2297.6	1401.4	700.7	442.9	403.4	361.8	328.5	301.5	278.6	278.6
52.5°	2802.8	2441.0	1370.2	588.4	395.1	359.7	330.6	303.6	280.7	251.6	247.4
55°	3050.2	2578.3	1384.8	480.3	351.4	328.5	309.8	282.8	274.5	268.2	264.1
57.5°	3308.1	2728.0	1420.1	393.0	314.0	311.9	303.6	322.3	341.0	328.5	322.3
60°	3509.7	2844.4	1424.3	330.6	291.1	328.5	370.1	376.3	326.4	297.3	295.3
62.5°	3669.8	2954.6	1326.6	286.9	297.3	386.7	395.1	332.7	282.8	270.3	270.3
65°	3753.0	2994.1	1066.6	262.0	309.8	370.1	357.6	299.4	264.1	262.0	262.0
67.5°	3711.4	2962.9	746.4	235.0	274.5	320.2	320.2	274.5	243.3	253.7	249.5
70°	3511.8	2809.0	492.8	212.1	241.2	289.0	297.3	255.7	226.6	232.9	226.6
72.5°	3096.0	2534.6	324.4	187.1	207.9	255.7	276.5	235.0	207.9	205.8	199.6
73°	3014.9	2430.6	305.6	183.0	201.7	247.4	270.3	230.8	203.8	197.5	193.4
75°	2557.5	2027.3	230.8	164.3	178.8	222.5	251.6	216.2	187.1	178.8	174.7
77.5°	1863.0	1405.6	172.6	139.3	149.7	193.4	222.5	197.5	166.3	155.9	153.9
80°	1162.3	765.2	128.9	112.3	118.5	162.2	195.4	176.7	143.5	131.0	128.9
82.5°	455.4	249.5	89.4	83.2	87.3	122.7	164.3	153.9	120.6	110.2	104.0
85°	74.9	85.2	58.2	56.1	56.1	87.3	124.8	118.5	81.1	70.7	62.4
87.5°	20.8	39.5	22.9	20.8	20.8	37.4	68.6	54.1	33.3	27.0	25.0
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)