

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: P594286

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

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594286  
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: ISC-PA1E-727-U-T3  
Description: IMPACT ELITE LED CYLINDER 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: 8751 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

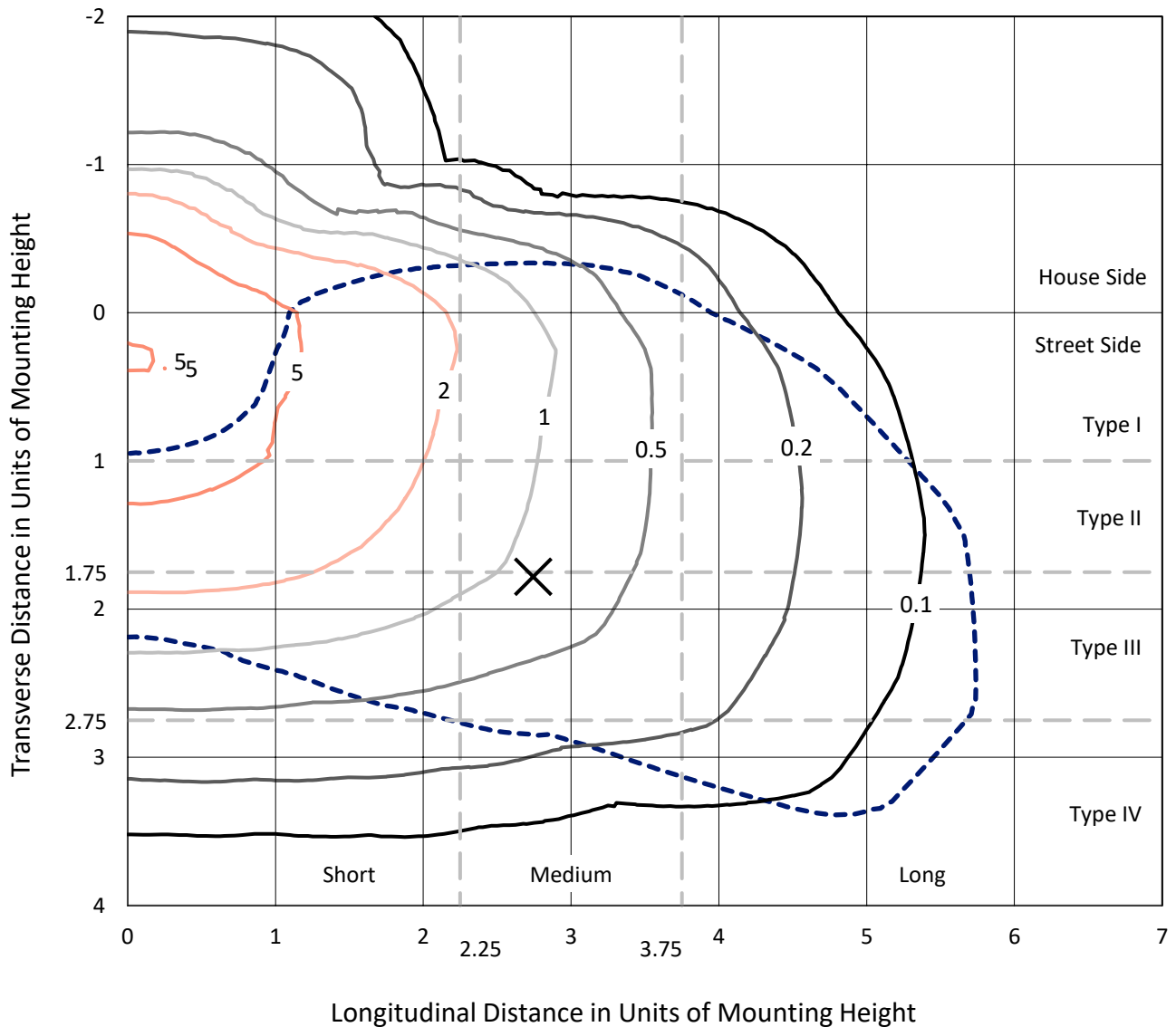
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

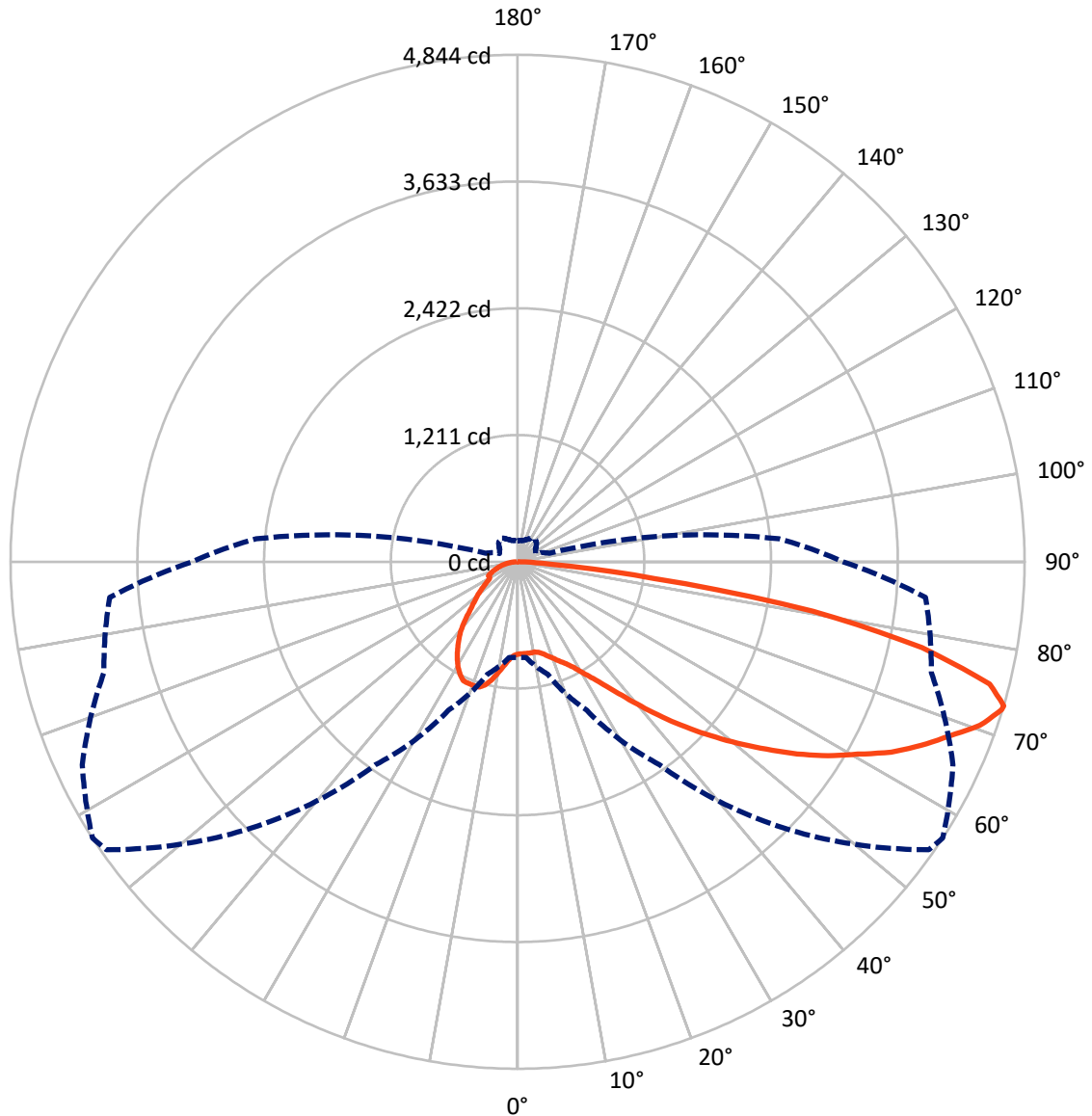
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 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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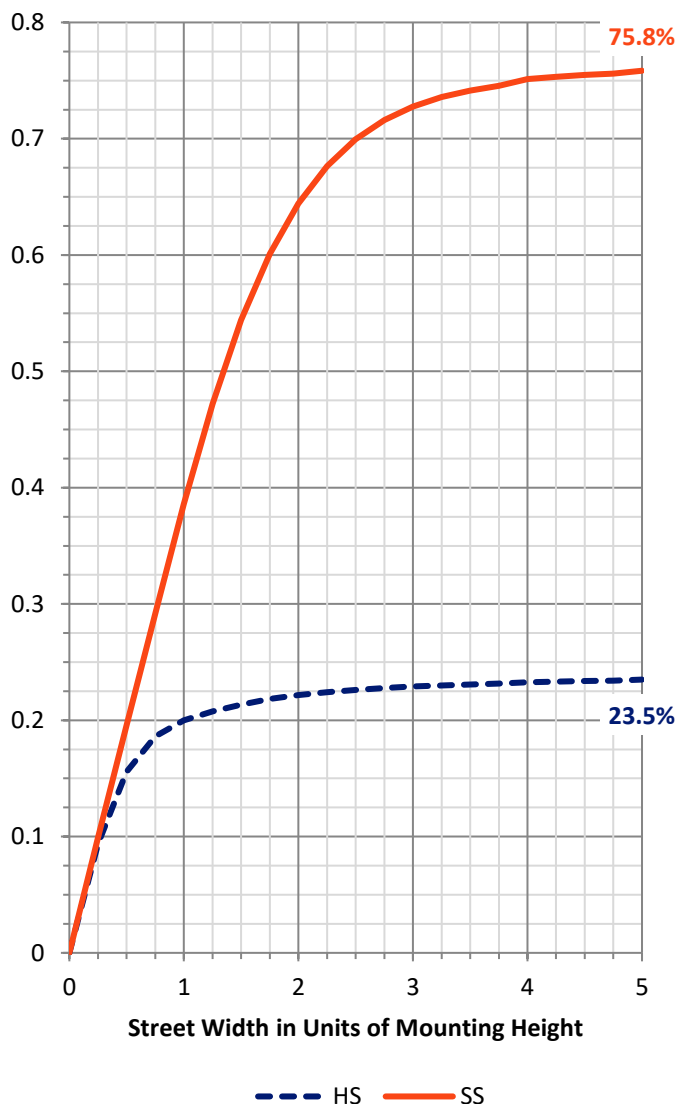
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2087.7	0.0	2087.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	6663.3	0.0	6663.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	8751.0	0.0	8751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	1.0
10°-20°	289.5	3.3
20°-30°	534.4	6.1
30°-40°	825.3	9.4
40°-50°	1242.2	14.2
50°-60°	1818.1	20.8
60°-70°	2147.0	24.5
70°-80°	1537.1	17.6
80°-90°	269.3	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°	8751.0	100.0
0°-180°	8751.0	100.0

**Coefficient of Utilization**

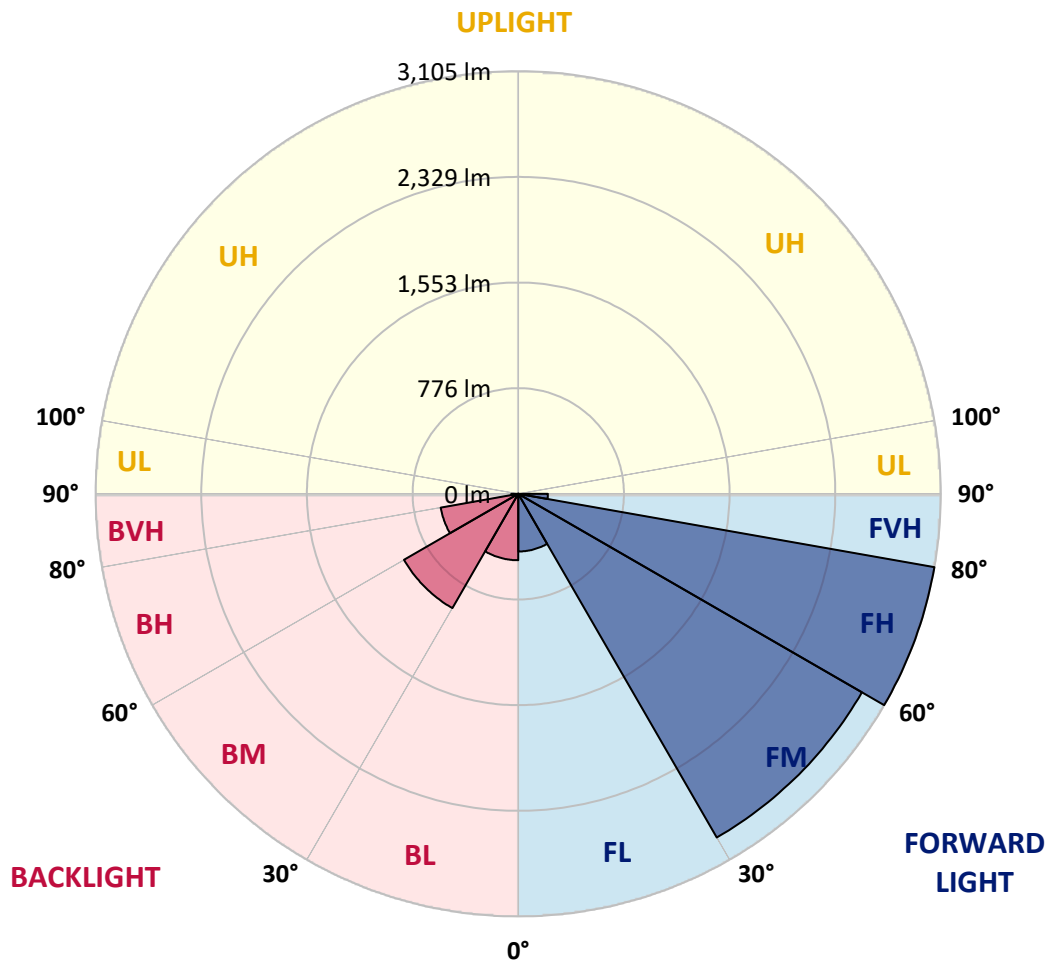


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.0	4.8			
FM (30°-60°)	2916.1	33.3			
FH (60°-80°)	3105.3	35.5			G2/5000
FVH (80°-90°)	217.9	2.5			G2/225
BL (0°-30°)	487.9	5.6	B1/500		
BM (30°-60°)	969.5	11.1	B1/1000		
BH (60°-80°)	578.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	51.4	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°	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7
2.5°	870.9	875.2	873.1	875.2	881.7	877.4	877.4	879.5	881.7	879.5	883.8
5°	834.5	836.6	840.9	849.5	864.5	868.8	879.5	879.5	883.8	888.1	894.5
7.5°	774.4	778.7	787.3	795.9	821.6	847.3	875.2	879.5	894.5	905.3	909.6
10°	763.7	768.0	770.1	783.0	808.7	834.5	868.8	877.4	905.3	922.4	941.7
12.5°	753.0	757.2	763.7	780.8	813.0	840.9	877.4	886.0	920.3	954.6	978.2
15°	761.5	763.7	770.1	787.3	819.5	858.1	905.3	911.7	950.3	993.2	1029.7
17.5°	783.0	785.1	783.0	798.0	828.0	873.1	937.4	948.2	995.4	1038.3	1074.7
20°	832.3	834.5	825.9	825.9	847.3	892.4	971.8	986.8	1044.7	1091.9	1128.4
22.5°	939.6	935.3	913.8	886.0	886.0	922.4	1010.4	1031.8	1104.8	1143.4	1175.6
25°	1091.9	1091.9	1057.6	1006.1	971.8	967.5	1055.4	1079.0	1164.8	1212.0	1231.3
27.5°	1276.4	1278.5	1222.7	1154.1	1087.6	1055.4	1119.8	1143.4	1239.9	1289.3	1295.7
30°	1439.4	1441.6	1385.8	1321.4	1239.9	1169.1	1205.6	1231.3	1342.9	1381.5	1360.0
32.5°	1602.4	1604.6	1566.0	1478.0	1392.2	1304.3	1315.0	1330.0	1443.7	1480.2	1445.8
35°	1744.0	1750.5	1711.8	1645.3	1555.3	1475.9	1456.6	1458.7	1561.7	1585.3	1540.2
37.5°	1887.8	1887.8	1864.2	1801.9	1724.7	1636.8	1611.0	1617.5	1709.7	1733.3	1668.9
40°	2070.1	2078.7	2065.8	1988.6	1900.6	1827.7	1801.9	1810.5	1911.4	1898.5	1829.8
42.5°	2291.0	2310.4	2288.9	2205.2	2110.9	2029.3	2029.3	2029.3	2115.1	2117.3	2014.3
45°	2574.2	2574.2	2552.8	2479.8	2355.4	2273.9	2246.0	2252.4	2327.5	2336.1	2216.0
47.5°	2810.2	2831.6	2808.0	2754.4	2655.7	2578.5	2490.5	2479.8	2542.0	2542.0	2439.1
50°	3001.1	3039.7	3020.4	3044.0	2973.2	2934.6	2754.4	2724.4	2745.8	2767.3	2653.6
52.5°	3159.8	3189.9	3183.4	3252.1	3286.4	3307.9	3022.6	2975.4	2992.5	2990.4	2887.4
55°	3170.6	3181.3	3277.8	3432.3	3567.4	3668.2	3292.8	3241.4	3224.2	3215.6	3136.2
57.5°	3108.4	3114.8	3307.9	3490.2	3784.1	3899.9	3548.1	3496.6	3473.0	3443.0	3410.8
60°	2958.2	2990.4	3243.5	3524.5	3912.8	4080.1	3786.2	3732.6	3715.4	3651.1	3724.0
62.5°	2767.3	2782.3	3035.4	3453.7	3930.0	4157.3	4037.2	4005.0	3951.4	3859.2	4002.9
65°	2497.0	2494.8	2717.9	3245.7	3842.0	4196.0	4249.6	4232.4	4165.9	4007.2	4251.7
67.5°	2050.8	2100.1	2318.9	2876.7	3629.6	4234.6	4466.3	4444.8	4339.7	4140.2	4369.7
70°	1563.8	1593.9	1842.7	2323.2	3207.0	4129.5	4678.6	4685.1	4494.1	4168.1	4318.2
72.5°	997.5	1049.0	1246.3	1692.5	2567.8	3739.0	4805.2	4835.2	4579.9	4129.5	3998.6
73°	913.8	918.1	1111.2	1566.0	2368.3	3599.6	4796.6	4843.8	4588.5	4090.8	3910.7
75°	544.9	568.5	684.3	1040.4	1690.4	2891.7	4564.9	4659.3	4543.5	3919.2	3428.0
77.5°	255.3	272.4	336.8	549.2	920.3	1739.7	3837.7	3949.3	4026.5	3430.1	2612.8
80°	135.1	137.3	165.2	276.7	493.4	716.5	2675.0	2859.5	2968.9	2582.8	1756.9
82.5°	113.7	113.7	128.7	178.0	315.3	278.9	1102.6	1312.8	1608.9	1272.1	690.7
85°	92.2	94.4	128.7	133.0	225.2	143.7	263.9	330.4	624.2	562.0	77.2
87.5°	30.0	34.3	72.9	94.4	120.1	55.8	66.5	72.9	72.9	107.3	25.7
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°	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7	881.7
2.5°	886.0	886.0	888.1	890.2	894.5	894.5	898.8	901.0	905.3	907.4	901.0
5°	894.5	898.8	903.1	916.0	931.0	943.9	956.7	967.5	978.2	984.6	982.5
7.5°	918.1	924.6	941.7	965.3	995.4	1014.7	1034.0	1053.3	1061.9	1066.2	1066.2
10°	950.3	963.2	995.4	1034.0	1068.3	1098.3	1113.3	1126.2	1130.5	1134.8	1130.5
12.5°	995.4	1012.5	1061.9	1111.2	1149.8	1164.8	1162.7	1145.5	1121.9	1117.6	1113.3
15°	1053.3	1074.7	1130.5	1188.4	1218.5	1199.2	1149.8	1132.7	1128.4	1141.2	1136.9
17.5°	1102.6	1128.4	1197.0	1257.1	1250.6	1184.1	1169.1	1177.7	1173.4	1175.6	1175.6
20°	1149.8	1186.3	1259.2	1300.0	1244.2	1201.3	1188.4	1177.7	1164.8	1169.1	1164.8
22.5°	1209.9	1235.6	1319.3	1321.4	1235.6	1201.3	1173.4	1152.0	1147.7	1149.8	1152.0
25°	1257.1	1297.8	1370.8	1306.4	1235.6	1167.0	1128.4	1124.1	1126.2	1139.1	1134.8
27.5°	1321.4	1362.2	1411.5	1297.8	1184.1	1111.2	1096.2	1094.0	1079.0	1083.3	1083.3
30°	1381.5	1430.8	1433.0	1297.8	1119.8	1064.0	1042.6	1003.9	971.8	978.2	976.1
32.5°	1463.0	1505.9	1437.3	1246.3	1046.8	1001.8	943.9	883.8	868.8	877.4	879.5
35°	1557.4	1591.7	1441.6	1160.5	973.9	913.8	808.7	774.4	772.3	778.7	785.1
37.5°	1681.8	1701.1	1473.7	1061.9	903.1	776.6	695.0	686.5	667.1	654.3	656.4
40°	1834.1	1810.5	1535.9	973.9	819.5	652.1	617.8	594.2	557.7	521.3	527.7
42.5°	2003.6	1937.1	1555.3	903.1	705.8	574.9	542.7	506.3	461.2	422.6	420.5
45°	2185.9	2078.7	1538.1	847.3	592.1	517.0	482.7	439.8	386.1	354.0	354.0
47.5°	2402.6	2213.8	1484.5	802.3	512.7	465.5	422.6	379.7	343.2	313.2	313.2
50°	2640.7	2370.4	1445.8	722.9	456.9	416.2	373.3	338.9	311.1	287.5	287.5
52.5°	2891.7	2518.4	1413.7	607.1	407.6	371.1	341.1	313.2	289.6	259.6	255.3
55°	3147.0	2660.0	1428.7	495.5	362.5	338.9	319.6	291.7	283.2	276.7	272.4
57.5°	3413.0	2814.5	1465.2	405.4	323.9	321.8	313.2	332.5	351.8	338.9	332.5
60°	3621.1	2934.6	1469.4	341.1	300.3	338.9	381.8	388.3	336.8	306.8	304.6
62.5°	3786.2	3048.3	1368.6	296.0	306.8	399.0	407.6	343.2	291.7	278.9	278.9
65°	3872.0	3089.1	1100.5	270.3	319.6	381.8	369.0	308.9	272.4	270.3	270.3
67.5°	3829.1	3056.9	770.1	242.4	283.2	330.4	330.4	283.2	251.0	261.7	257.4
70°	3623.2	2898.1	508.4	218.8	248.8	298.2	306.8	263.9	233.8	240.3	233.8
72.5°	3194.2	2615.0	334.6	193.1	214.5	263.9	285.3	242.4	214.5	212.4	205.9
73°	3110.5	2507.7	315.3	188.8	208.1	255.3	278.9	238.1	210.2	203.8	199.5
75°	2638.6	2091.5	238.1	169.5	184.5	229.5	259.6	223.1	193.1	184.5	180.2
77.5°	1922.1	1450.1	178.0	143.7	154.5	199.5	229.5	203.8	171.6	160.9	158.7
80°	1199.2	789.4	133.0	115.8	122.3	167.3	201.6	182.3	148.0	135.1	133.0
82.5°	469.8	257.4	92.2	85.8	90.1	126.6	169.5	158.7	124.4	113.7	107.3
85°	77.2	88.0	60.1	57.9	57.9	90.1	128.7	122.3	83.7	72.9	64.4
87.5°	21.5	40.8	23.6	21.5	21.5	38.6	70.8	55.8	34.3	27.9	25.7
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)