

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: P594423

Luminaire Tested: **ISC-PA1F-827-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594423  
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: ISC-PA1F-827-U-T4W  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 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: 8374 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

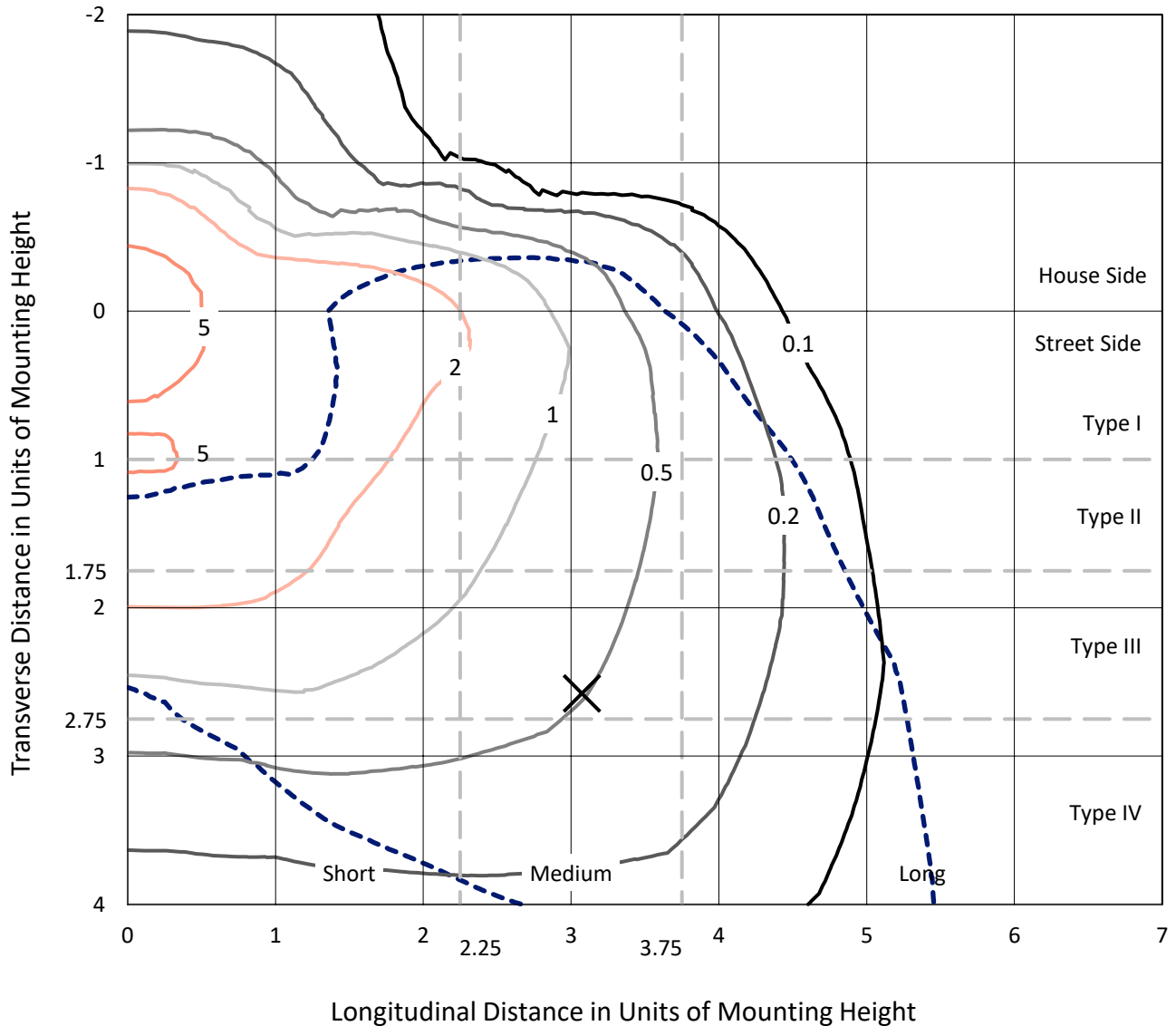
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

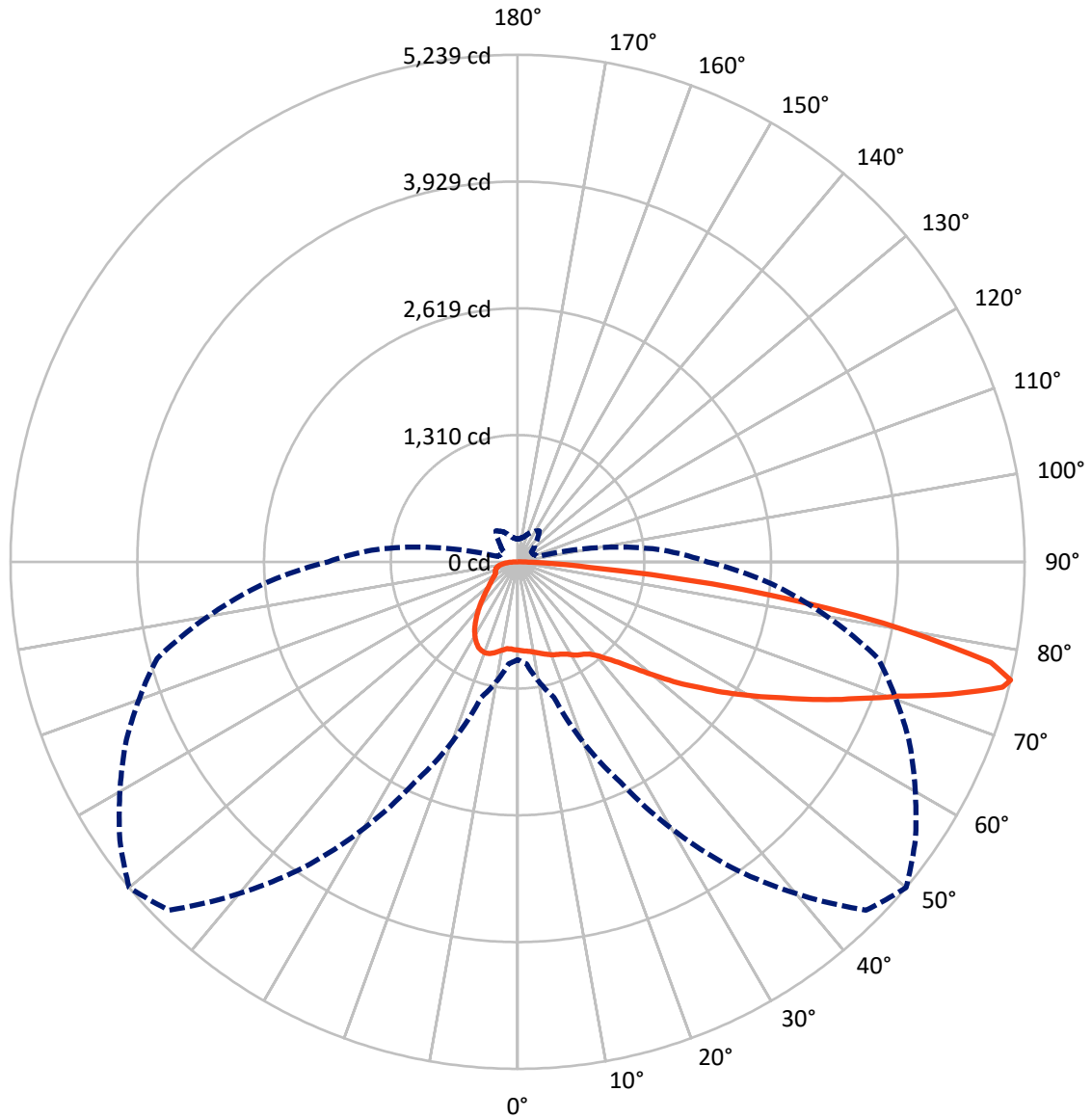
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 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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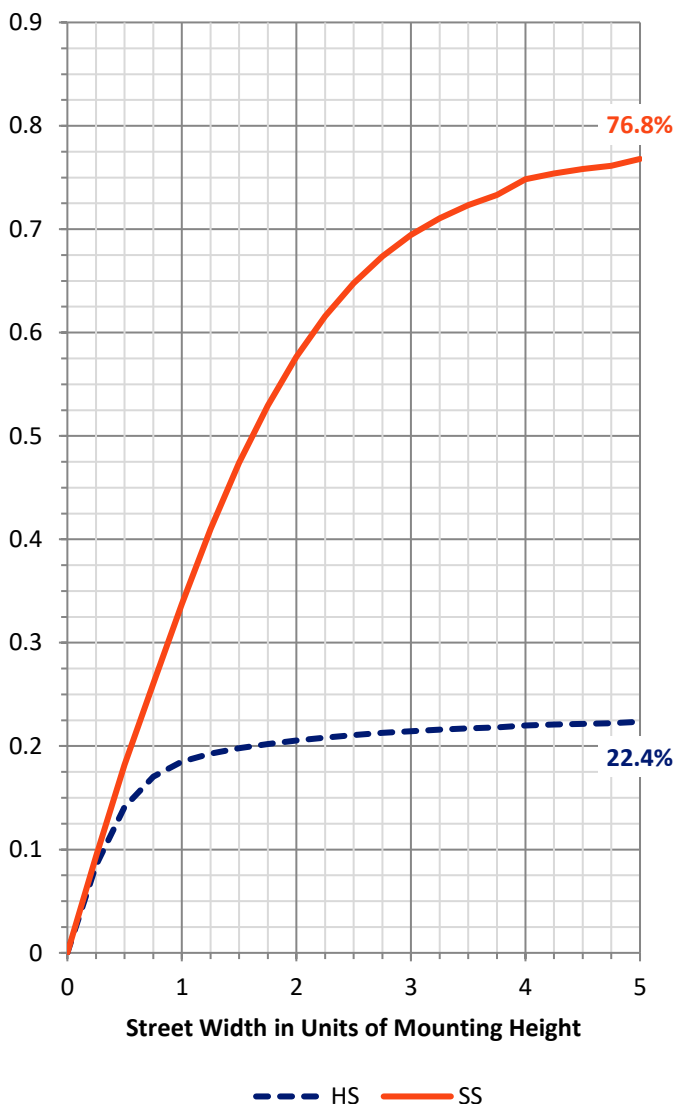
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1915.6	0.0	1915.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6458.4	0.0	6458.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8374.0	0.0	8374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	1.1
10°-20°	278.7	3.3
20°-30°	470.7	5.6
30°-40°	645.2	7.7
40°-50°	950.2	11.3
50°-60°	1494.8	17.9
60°-70°	2151.6	25.7
70°-80°	1956.4	23.4
80°-90°	337.8	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°	8374.0	100.0
0°-180°	8374.0	100.0

**Coefficient of Utilization**

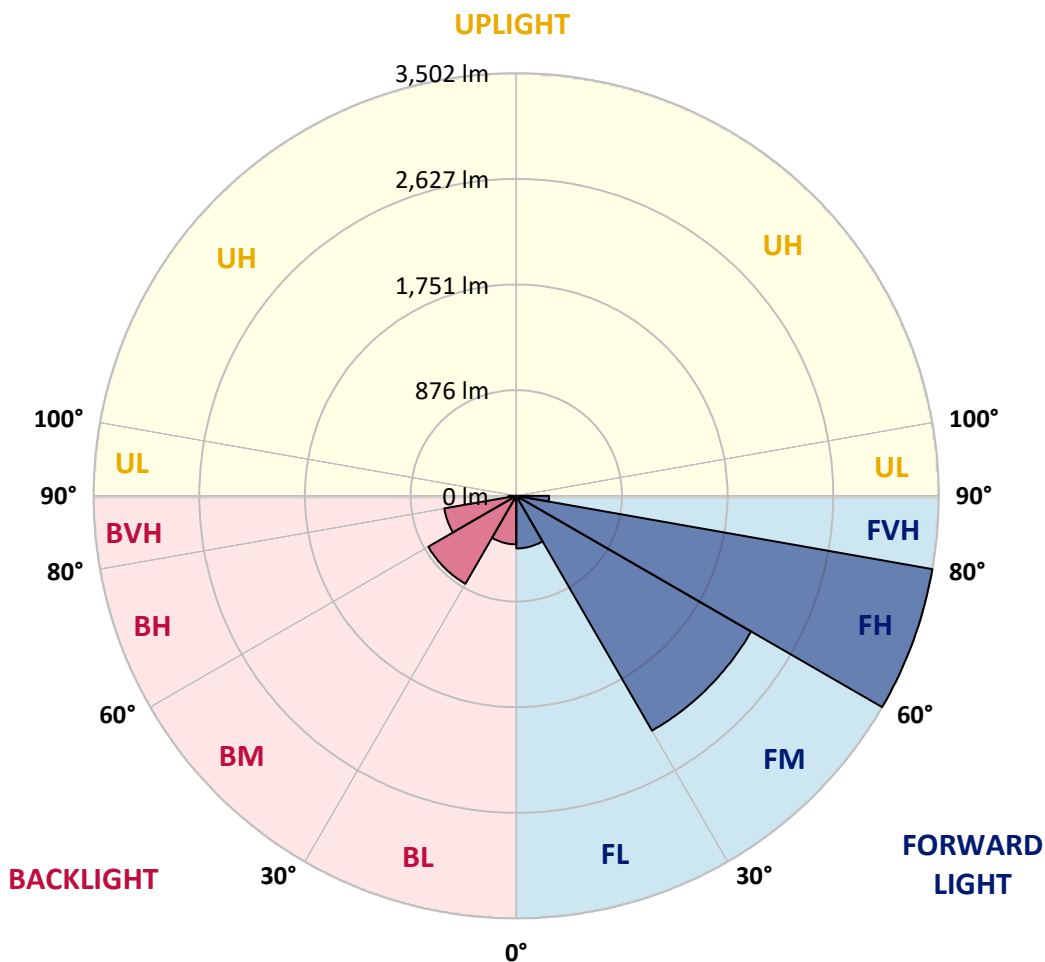


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.8	5.2			
FM (30°-60°)	2248.3	26.8			
FH (60°-80°)	3502.4	41.8			G2/5000
FVH (80°-90°)	271.9	3.2			G3/500
BL (0°-30°)	402.1	4.8	B1/500		
BM (30°-60°)	841.9	10.1	B1/1000		
BH (60°-80°)	605.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	65.9	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°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7
2.5°	933.3	933.3	935.3	931.2	931.2	921.0	921.0	918.9	914.8	912.7	908.6
5°	968.1	968.1	962.0	951.7	945.6	933.3	927.1	923.0	914.8	904.5	894.3
7.5°	1005.0	1000.9	996.8	980.4	968.1	945.6	935.3	929.2	912.7	898.4	892.2
10°	1044.0	1037.9	1027.6	1007.1	988.6	962.0	949.7	941.5	923.0	910.7	896.3
12.5°	1066.6	1066.6	1054.3	1029.7	1005.0	972.2	966.1	955.8	937.4	921.0	906.6
15°	1089.1	1091.2	1078.9	1050.2	1021.5	996.8	986.6	980.4	959.9	935.3	916.8
17.5°	1111.7	1109.7	1097.3	1064.5	1033.8	1011.2	1005.0	996.8	976.3	953.8	935.3
20°	1128.1	1124.0	1119.9	1078.9	1048.1	1033.8	1025.6	1019.4	998.9	974.3	949.7
22.5°	1132.2	1136.3	1132.2	1083.0	1058.4	1042.0	1039.9	1033.8	1017.4	994.8	970.2
25°	1134.3	1136.3	1142.5	1095.3	1072.7	1060.4	1056.3	1052.2	1039.9	1021.5	988.6
27.5°	1144.5	1146.6	1146.6	1103.5	1091.2	1083.0	1078.9	1078.9	1072.7	1050.2	1017.4
30°	1146.6	1148.6	1152.7	1124.0	1119.9	1113.8	1115.8	1113.8	1103.5	1078.9	1042.0
32.5°	1160.9	1163.0	1173.2	1136.3	1140.4	1146.6	1148.6	1146.6	1126.1	1105.6	1074.8
35°	1208.1	1206.1	1214.3	1167.1	1163.0	1165.0	1171.2	1169.1	1160.9	1142.5	1122.0
37.5°	1359.9	1359.9	1337.3	1238.9	1208.1	1204.0	1208.1	1218.4	1220.4	1204.0	1187.6
40°	1626.5	1612.2	1599.9	1386.6	1288.1	1263.5	1275.8	1281.9	1298.4	1298.4	1298.4
42.5°	1901.4	1903.4	1899.3	1616.3	1431.7	1370.1	1372.2	1386.6	1421.4	1427.6	1446.0
45°	2145.5	2159.8	2190.6	1882.9	1642.9	1505.5	1491.2	1505.5	1554.7	1595.8	1642.9
47.5°	2336.2	2319.8	2387.5	2161.9	1885.0	1690.1	1653.2	1657.3	1725.0	1790.6	1864.5
50°	2500.3	2504.4	2535.2	2447.0	2190.6	1899.3	1850.1	1841.9	1938.3	2008.0	2133.2
52.5°	2684.9	2672.6	2717.7	2697.2	2488.0	2155.7	2077.8	2053.2	2157.8	2256.2	2391.6
55°	2773.1	2785.4	2877.7	2929.0	2769.0	2385.4	2299.3	2307.5	2418.3	2522.9	2711.6
57.5°	2929.0	2941.3	3048.0	3154.6	3019.2	2629.5	2553.6	2553.6	2678.8	2795.7	3086.9
60°	3142.3	3144.4	3253.1	3437.7	3238.7	2865.4	2816.2	2814.1	2949.5	3084.9	3530.0
62.5°	3236.7	3261.3	3423.3	3663.3	3525.9	3154.6	3097.2	3113.6	3234.6	3392.5	4024.3
65°	3109.5	3162.8	3501.3	3815.1	3782.3	3456.1	3433.6	3456.1	3530.0	3700.2	4547.3
67.5°	2689.0	2760.8	3357.7	3917.6	3987.4	3804.8	3772.0	3767.9	3815.1	4005.8	4877.6
70°	2471.6	2514.7	2978.2	3956.6	4151.5	4157.6	4157.6	4130.9	4124.8	4264.3	4908.3
72.5°	2034.7	2079.8	2512.6	3739.2	4307.3	4629.4	4676.5	4578.1	4426.3	4397.6	4393.5
75°	1450.1	1483.0	1856.3	2941.3	4108.4	5082.7	5177.0	4986.3	4563.7	4106.3	3203.8
76°	1011.2	1058.4	1450.1	2512.6	3858.2	5090.9	5238.6	5017.0	4471.4	3856.1	2639.8
77.5°	512.8	529.2	838.9	1688.1	3228.5	4857.0	5000.6	4752.4	4069.4	3115.6	1675.8
80°	194.9	201.0	299.5	615.3	1772.2	3772.0	3827.4	3493.1	2693.1	1331.2	603.0
82.5°	102.6	106.7	168.2	303.6	728.1	2073.7	2340.3	1948.6	1056.3	400.0	176.4
85°	51.3	55.4	98.5	184.6	361.0	648.2	750.7	709.7	350.7	151.8	65.6
87.5°	20.5	24.6	49.2	82.0	145.6	127.2	141.5	182.5	112.8	71.8	22.6
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°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7
2.5°	908.6	906.6	908.6	906.6	908.6	908.6	910.7	906.6	906.6	910.7	904.5
5°	894.3	892.2	894.3	898.4	900.4	904.5	912.7	910.7	914.8	918.9	921.0
7.5°	888.1	886.1	892.2	894.3	900.4	908.6	921.0	929.2	933.3	941.5	937.4
10°	894.3	894.3	902.5	908.6	918.9	929.2	939.4	947.6	957.9	964.0	962.0
12.5°	904.5	902.5	916.8	925.1	939.4	949.7	957.9	962.0	970.2	978.4	976.3
15°	914.8	916.8	937.4	953.8	970.2	974.3	976.3	972.2	976.3	980.4	980.4
17.5°	935.3	937.4	959.9	978.4	992.7	988.6	978.4	968.1	968.1	970.2	972.2
20°	951.7	955.8	982.5	998.9	1007.1	990.7	974.3	962.0	955.8	957.9	955.8
22.5°	970.2	978.4	1005.0	1013.3	1000.9	980.4	959.9	943.5	943.5	945.6	945.6
25°	992.7	996.8	1015.3	1011.2	988.6	957.9	941.5	935.3	933.3	935.3	937.4
27.5°	1013.3	1015.3	1025.6	996.8	953.8	921.0	914.8	916.8	918.9	921.0	923.0
30°	1039.9	1044.0	1033.8	976.3	910.7	873.8	873.8	886.1	890.2	896.3	894.3
32.5°	1072.7	1076.8	1046.1	949.7	855.3	818.4	820.4	838.9	851.2	855.3	857.4
35°	1128.1	1119.9	1054.3	912.7	795.8	750.7	752.8	775.3	791.7	797.9	793.8
37.5°	1195.8	1193.7	1066.6	865.6	722.0	681.0	683.0	693.3	709.7	711.7	713.8
40°	1308.6	1292.2	1087.1	804.0	648.2	609.2	605.1	611.2	609.2	613.3	615.3
42.5°	1470.7	1427.6	1113.8	734.3	582.5	541.5	537.4	527.1	514.8	502.5	496.4
45°	1661.4	1593.7	1146.6	662.5	514.8	477.9	467.7	455.3	430.7	404.1	395.9
47.5°	1907.5	1778.3	1183.5	590.7	451.2	422.5	414.3	395.9	367.1	336.4	330.2
50°	2159.8	1995.7	1220.4	531.2	400.0	383.6	375.4	356.9	320.0	291.3	285.1
52.5°	2453.1	2211.1	1259.4	477.9	354.8	354.8	348.7	320.0	285.1	258.4	254.3
55°	2791.6	2432.6	1320.9	426.6	322.0	330.2	322.0	293.3	260.5	242.0	240.0
57.5°	3195.6	2713.6	1398.9	371.3	293.3	299.5	299.5	279.0	256.4	244.1	242.0
60°	3601.8	2998.7	1448.1	330.2	270.7	276.9	289.2	279.0	264.6	258.4	256.4
62.5°	3991.5	3290.0	1364.0	295.4	248.2	266.6	297.4	299.5	285.1	287.2	287.2
65°	4282.7	3511.5	1103.5	264.6	233.8	272.8	322.0	324.1	299.5	293.3	291.3
67.5°	4383.2	3573.0	742.5	244.1	225.6	276.9	350.7	342.5	299.5	287.2	281.0
70°	4192.5	3347.4	482.0	225.6	213.3	272.8	373.3	352.8	297.4	279.0	270.7
72.5°	3515.6	2855.2	322.0	209.2	201.0	268.7	387.7	352.8	291.3	264.6	256.4
75°	2440.8	1950.6	240.0	188.7	182.5	262.5	391.8	346.6	276.9	248.2	242.0
76°	1958.8	1462.4	217.4	180.5	174.3	258.4	389.7	340.5	266.6	240.0	233.8
77.5°	1236.8	841.0	182.5	166.1	162.0	250.2	381.5	326.1	252.3	225.6	219.5
80°	432.8	307.7	139.5	135.4	137.4	231.8	358.9	297.4	223.6	199.0	190.8
82.5°	172.3	141.5	104.6	104.6	108.7	199.0	324.1	262.5	194.9	164.1	151.8
85°	67.7	61.5	73.8	73.8	77.9	162.0	270.7	205.1	133.3	102.6	98.5
87.5°	20.5	28.7	32.8	34.9	36.9	82.0	153.8	90.2	59.5	43.1	34.9
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)