

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: P594365

Luminaire Tested: **ISC-PA1F-727-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1F-727-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9701 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

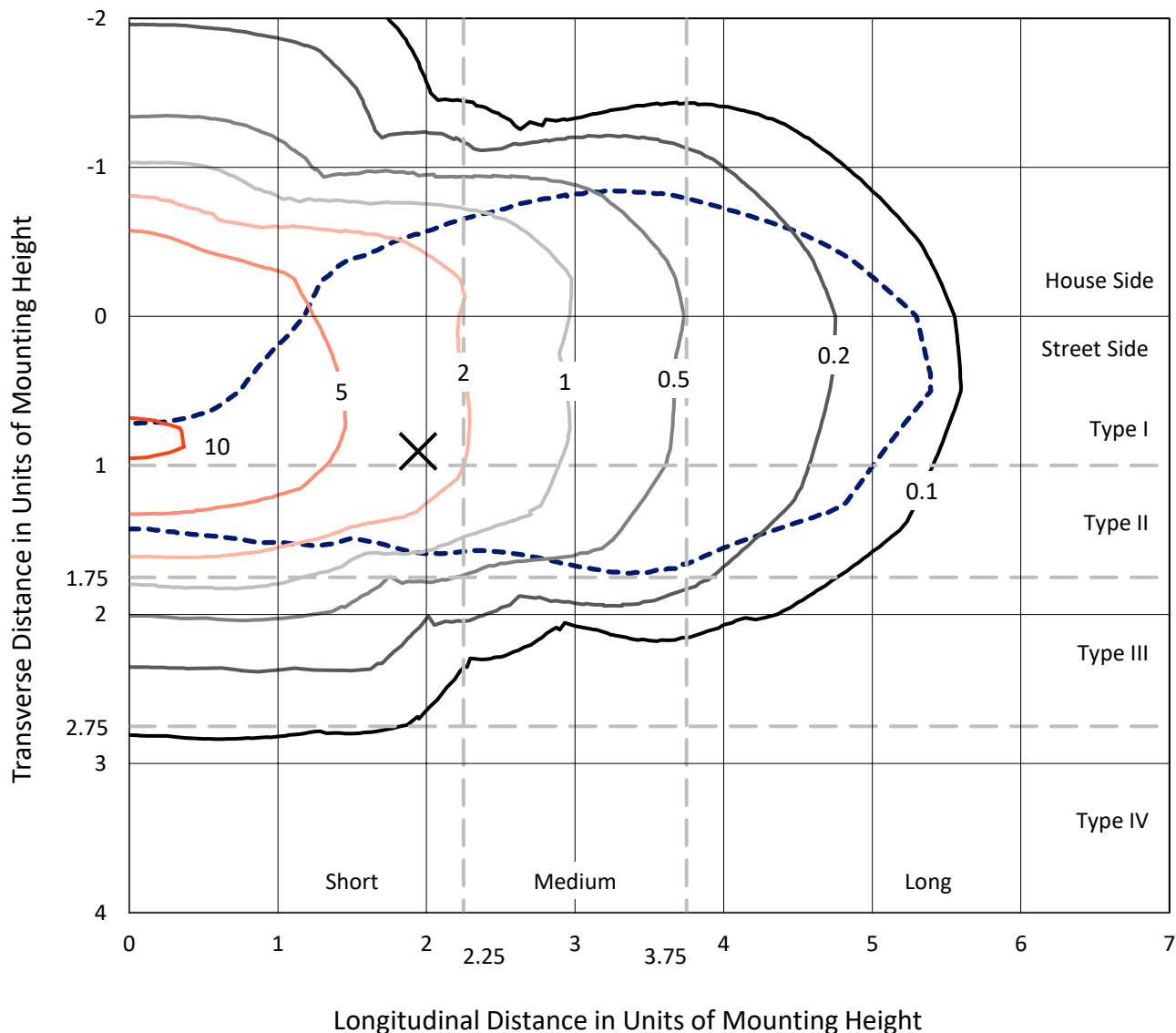
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

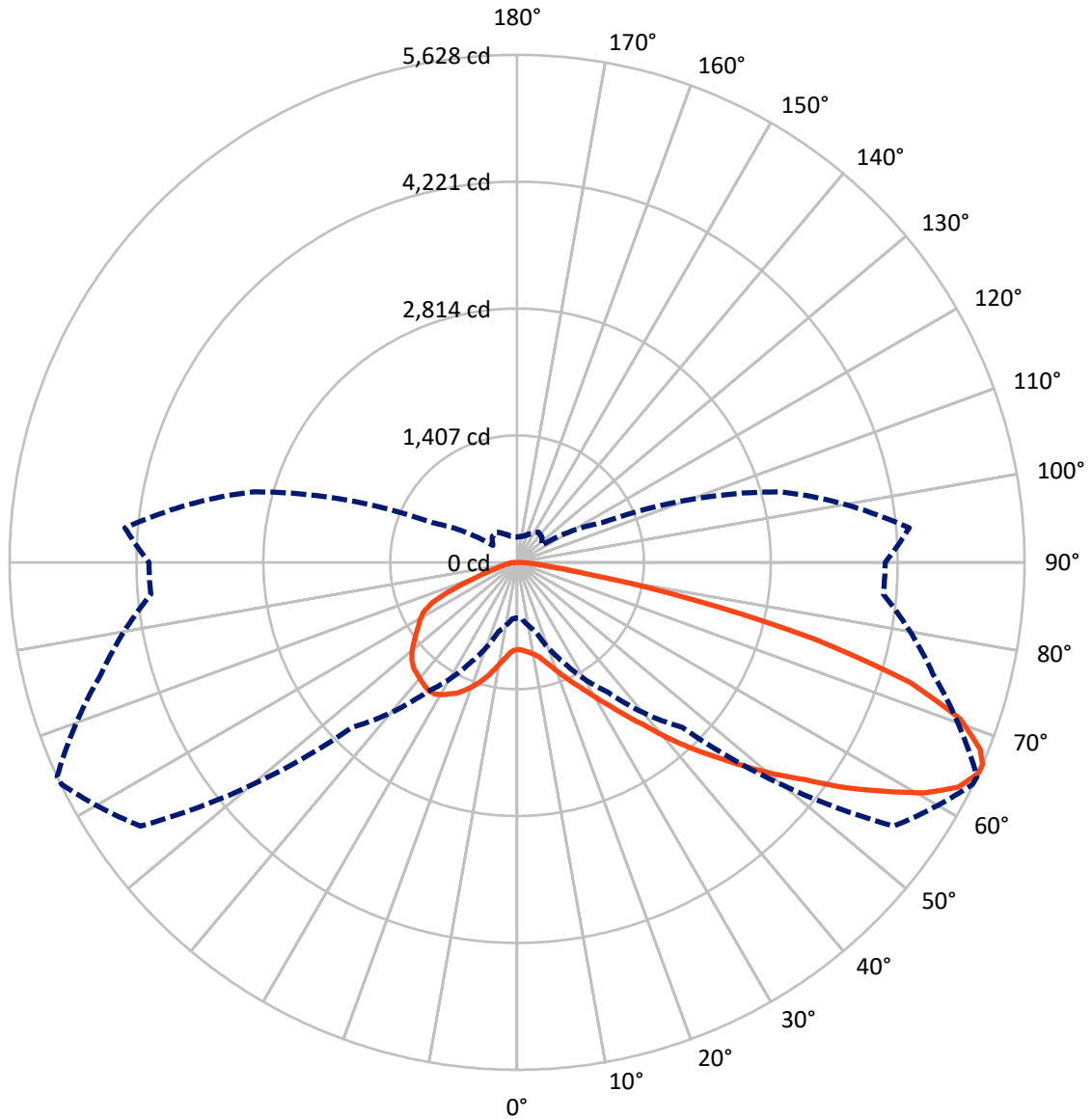
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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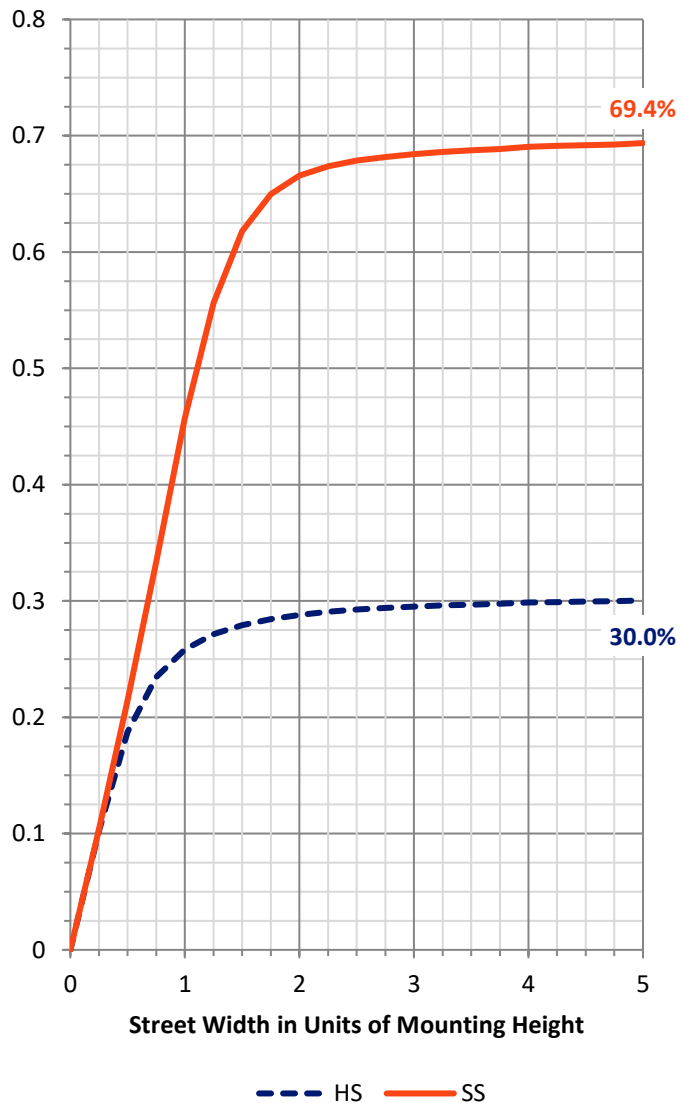
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2945.6	0.0	2945.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	6755.4	0.0	6755.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	9701.0	0.0	9701.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	1.0
10°-20°	343.8	3.5
20°-30°	673.3	6.9
30°-40°	1100.3	11.3
40°-50°	1746.4	18.0
50°-60°	2246.1	23.2
60°-70°	2025.6	20.9
70°-80°	1256.3	13.0
80°-90°	210.5	2.2
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°	9701.0	100.0
0°-180°	9701.0	100.0

**Coefficient of Utilization**



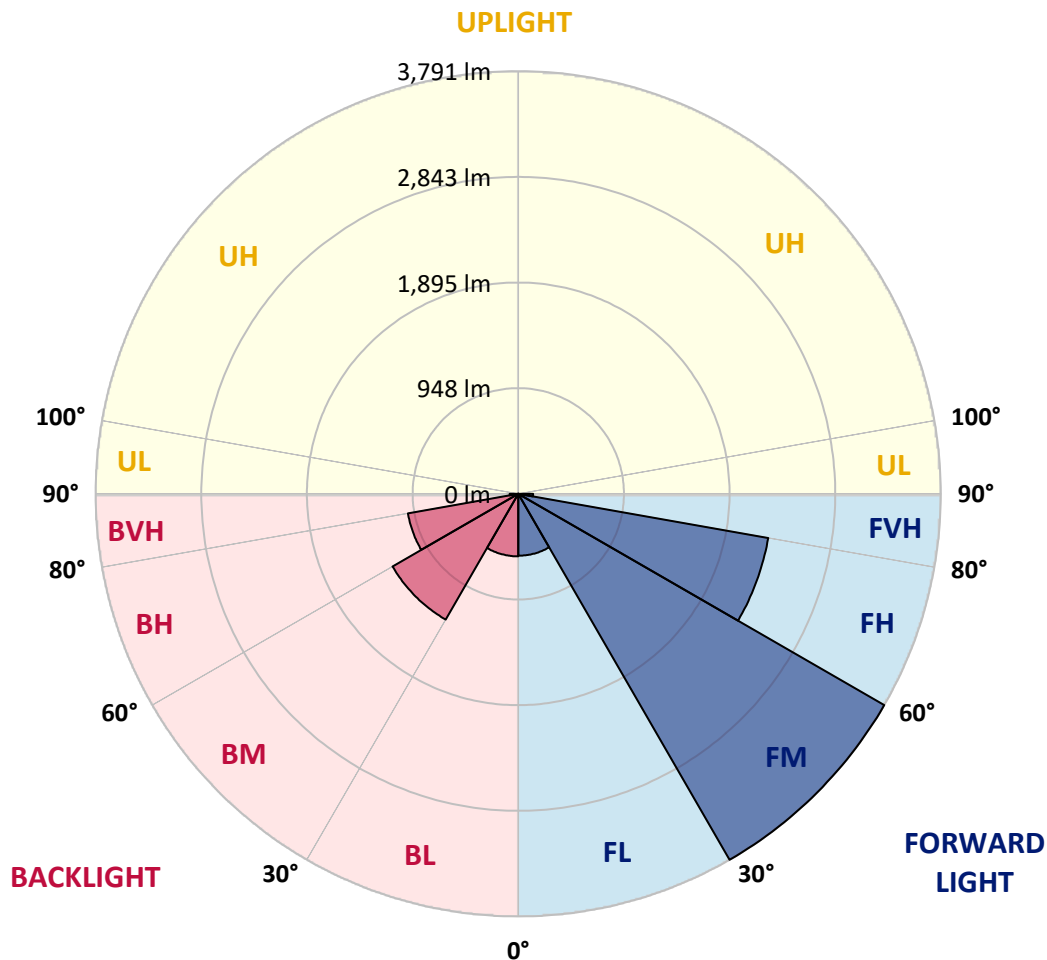
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.8	5.7			
FM (30°-60°)	3790.6	39.1			
FH (60°-80°)	2276.8	23.5			G2/5000
FVH (80°-90°)	133.2	1.4			G2/225
BL (0°-30°)	561.0	5.8	B2/1000		
BM (30°-60°)	1302.2	13.4	B2/2500		
BH (60°-80°)	1005.1	10.4	B3/2500		G3/2500
BVH (80°-90°)	77.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0
2.5°	969.3	971.7	974.0	969.3	974.0	976.4	971.7	971.7	974.0	969.3	969.3
5°	962.3	964.6	969.3	971.7	981.1	985.8	988.1	988.1	990.5	988.1	990.5
7.5°	943.4	943.4	952.8	957.5	971.7	988.1	997.5	1011.7	1011.7	1014.0	1021.1
10°	962.3	962.3	969.3	976.4	988.1	1002.2	1016.4	1032.8	1037.5	1054.0	1063.4
12.5°	990.5	995.2	1004.6	1014.0	1028.1	1044.6	1056.4	1072.8	1075.2	1091.7	1110.5
15°	1037.5	1042.2	1047.0	1058.7	1077.5	1098.7	1119.9	1131.6	1136.4	1145.8	1159.9
17.5°	1108.1	1112.8	1115.2	1122.2	1136.4	1164.6	1195.2	1204.6	1209.3	1209.3	1221.1
20°	1228.1	1225.8	1221.1	1206.9	1206.9	1232.8	1275.2	1291.6	1296.3	1286.9	1279.9
22.5°	1366.9	1364.6	1345.7	1329.3	1317.5	1322.2	1364.6	1392.8	1390.4	1371.6	1343.4
25°	1548.1	1552.8	1522.2	1479.8	1444.6	1435.1	1461.0	1489.3	1494.0	1458.7	1411.6
27.5°	1764.5	1757.5	1741.0	1672.8	1604.5	1562.2	1576.3	1606.9	1609.2	1571.6	1496.3
30°	2018.6	2006.9	1964.5	1893.9	1788.1	1729.2	1717.5	1743.3	1750.4	1686.9	1578.7
32.5°	2300.9	2289.2	2235.1	2126.8	2011.6	1912.7	1875.1	1910.4	1905.7	1832.8	1682.2
35°	2642.1	2639.7	2540.9	2406.8	2260.9	2129.2	2077.4	2077.4	2091.5	1983.3	1813.9
37.5°	3098.5	3117.3	2971.5	2762.1	2557.4	2380.9	2293.9	2289.2	2291.5	2173.9	1962.1
40°	3510.2	3503.2	3418.5	3223.2	2924.4	2698.5	2569.1	2540.9	2548.0	2397.4	2155.1
42.5°	3747.8	3754.9	3733.7	3649.0	3387.9	3103.2	2882.1	2806.8	2809.1	2620.9	2338.6
45°	3896.1	3903.1	3900.8	3943.1	3839.6	3571.4	3256.1	3082.0	3072.6	2875.0	2555.0
47.5°	3980.8	3985.5	4016.1	4103.1	4187.8	4126.6	3670.2	3387.9	3369.1	3112.6	2771.5
50°	3886.7	3889.0	4011.3	4218.4	4425.4	4611.3	4093.7	3691.4	3686.7	3376.1	2983.2
52.5°	3392.6	3434.9	3705.5	4138.4	4601.9	4954.8	4583.1	4049.0	4009.0	3625.5	3195.0
55°	2769.1	2787.9	3098.5	3649.0	4568.9	5166.5	4952.4	4434.8	4406.6	3903.1	3402.0
57.5°	2162.1	2181.0	2550.3	3009.1	4065.5	5154.8	5213.6	4851.3	4787.7	4145.5	3609.0
60°	1395.1	1454.0	1882.2	2446.8	3291.4	4797.2	5345.3	5251.2	5192.4	4385.4	3785.5
62.5°	948.1	957.5	1225.8	1813.9	2463.3	3898.4	5335.9	5498.3	5488.8	4625.4	3961.9
65°	616.4	630.5	792.9	1228.1	1762.2	2588.0	5100.6	5618.2	5627.7	4773.6	4077.2
66°	522.3	531.7	656.4	1032.8	1543.4	2051.6	4893.6	5608.8	5627.7	4841.9	4112.5
67.5°	454.1	461.1	524.7	762.3	1261.0	1475.1	4354.8	5484.1	5538.3	4905.4	4157.2
70°	390.5	400.0	458.8	519.9	901.1	861.1	2757.4	5164.2	5218.3	4936.0	4185.4
72.5°	322.3	329.4	388.2	470.5	654.0	578.8	1216.3	4420.7	4557.2	4823.0	4140.7
75°	254.1	258.8	312.9	392.9	501.1	451.7	529.4	3242.0	3413.8	4251.3	3966.6
77.5°	197.6	200.0	242.3	305.9	458.8	350.6	327.0	1578.7	1997.4	3284.4	3493.8
80°	136.5	141.2	178.8	230.6	336.4	277.6	218.8	616.4	783.4	2181.0	2649.1
82.5°	89.4	91.8	122.3	174.1	223.5	265.9	143.5	298.8	329.4	1004.6	1148.1
85°	61.2	61.2	87.0	108.2	152.9	176.5	94.1	157.6	171.7	381.1	138.8
87.5°	30.6	30.6	42.3	56.5	72.9	68.2	56.5	56.5	56.5	124.7	40.0
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°	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0
2.5°	971.7	971.7	974.0	976.4	978.7	978.7	981.1	981.1	978.7	981.1	983.4
5°	992.8	995.2	999.9	1007.0	1018.7	1030.5	1042.2	1049.3	1056.4	1058.7	1054.0
7.5°	1025.8	1030.5	1047.0	1065.8	1084.6	1112.8	1129.3	1138.7	1143.4	1148.1	1143.4
10°	1068.1	1077.5	1101.1	1134.0	1166.9	1202.2	1221.1	1235.2	1237.5	1242.2	1237.5
12.5°	1117.5	1134.0	1169.3	1216.3	1256.3	1291.6	1305.7	1296.3	1275.2	1265.8	1263.4
15°	1176.3	1192.8	1242.2	1301.0	1348.1	1364.6	1343.4	1312.8	1289.3	1286.9	1284.6
17.5°	1228.1	1251.6	1319.9	1381.0	1425.7	1409.3	1352.8	1334.0	1326.9	1336.3	1334.0
20°	1294.0	1312.8	1381.0	1456.3	1479.8	1416.3	1376.3	1364.6	1357.5	1357.5	1352.8
22.5°	1348.1	1362.2	1444.6	1526.9	1512.8	1421.0	1392.8	1369.3	1345.7	1343.4	1336.3
25°	1411.6	1416.3	1503.4	1592.8	1517.5	1425.7	1376.3	1336.3	1312.8	1305.7	1308.1
27.5°	1470.4	1482.2	1557.5	1637.5	1505.7	1399.9	1319.9	1268.1	1232.8	1230.5	1230.5
30°	1545.7	1545.7	1614.0	1686.9	1479.8	1334.0	1228.1	1152.8	1124.6	1122.2	1117.5
32.5°	1630.4	1616.3	1682.2	1722.2	1423.4	1244.6	1103.4	1018.7	974.0	964.6	957.5
35°	1748.1	1717.5	1764.5	1729.2	1366.9	1117.5	945.8	849.3	816.4	802.3	802.3
37.5°	1884.5	1839.8	1889.2	1708.1	1279.9	969.3	781.1	708.2	672.9	651.7	658.8
40°	2044.5	1988.0	2016.3	1684.5	1185.8	804.6	644.6	599.9	557.6	529.4	529.4
42.5°	2232.7	2138.6	2159.8	1661.0	1051.7	661.1	557.6	527.0	494.1	465.8	472.9
45°	2413.9	2322.1	2300.9	1637.5	910.5	564.6	522.3	501.1	470.5	437.6	437.6
47.5°	2623.3	2505.6	2425.6	1595.1	771.7	534.1	531.7	501.1	442.3	395.3	390.5
50°	2820.9	2712.7	2538.6	1531.6	694.0	559.9	529.4	456.4	400.0	369.4	367.0
52.5°	3030.3	2917.3	2630.3	1454.0	654.0	548.2	487.0	418.8	376.4	345.8	338.8
55°	3237.3	3178.5	2712.7	1378.7	590.5	510.5	451.7	395.3	350.6	322.3	317.6
57.5°	3472.6	3449.1	2783.2	1303.4	491.7	463.5	425.8	378.8	336.4	315.3	312.9
60°	3677.3	3759.6	2867.9	1246.9	418.8	428.2	414.1	376.4	345.8	322.3	322.3
62.5°	3893.7	4058.4	2943.2	1174.0	364.7	407.0	416.4	374.1	334.1	312.9	312.9
65°	4081.9	4364.3	3020.9	1039.9	327.0	390.5	409.4	348.2	301.1	284.7	280.0
66°	4161.9	4451.3	3044.4	957.5	312.9	378.8	397.6	334.1	287.0	272.9	270.6
67.5°	4256.0	4587.8	3072.6	781.1	291.7	352.9	371.7	312.9	263.5	254.1	249.4
70°	4387.8	4616.0	3056.2	510.5	254.1	303.5	331.7	280.0	235.3	228.2	221.2
72.5°	4401.9	4423.1	2891.5	322.3	221.2	261.1	291.7	251.7	207.0	200.0	195.3
75°	4169.0	3919.6	2446.8	230.6	195.3	230.6	256.4	218.8	171.7	162.3	157.6
77.5°	3559.6	3110.3	1759.8	171.7	169.4	197.6	214.1	190.6	143.5	136.5	134.1
80°	2498.6	2110.4	882.3	129.4	134.1	164.7	178.8	160.0	120.0	110.6	105.9
82.5°	1011.7	896.4	303.5	96.5	101.2	124.7	152.9	131.8	91.8	80.0	70.6
85°	115.3	195.3	131.8	65.9	68.2	84.7	103.5	80.0	54.1	44.7	37.6
87.5°	23.5	42.3	47.1	25.9	23.5	32.9	47.1	28.2	18.8	7.1	9.4
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)