

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: P594149

Luminaire Tested: **ISC-PA1C-740-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594149  
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-PA1C-740-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6920 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

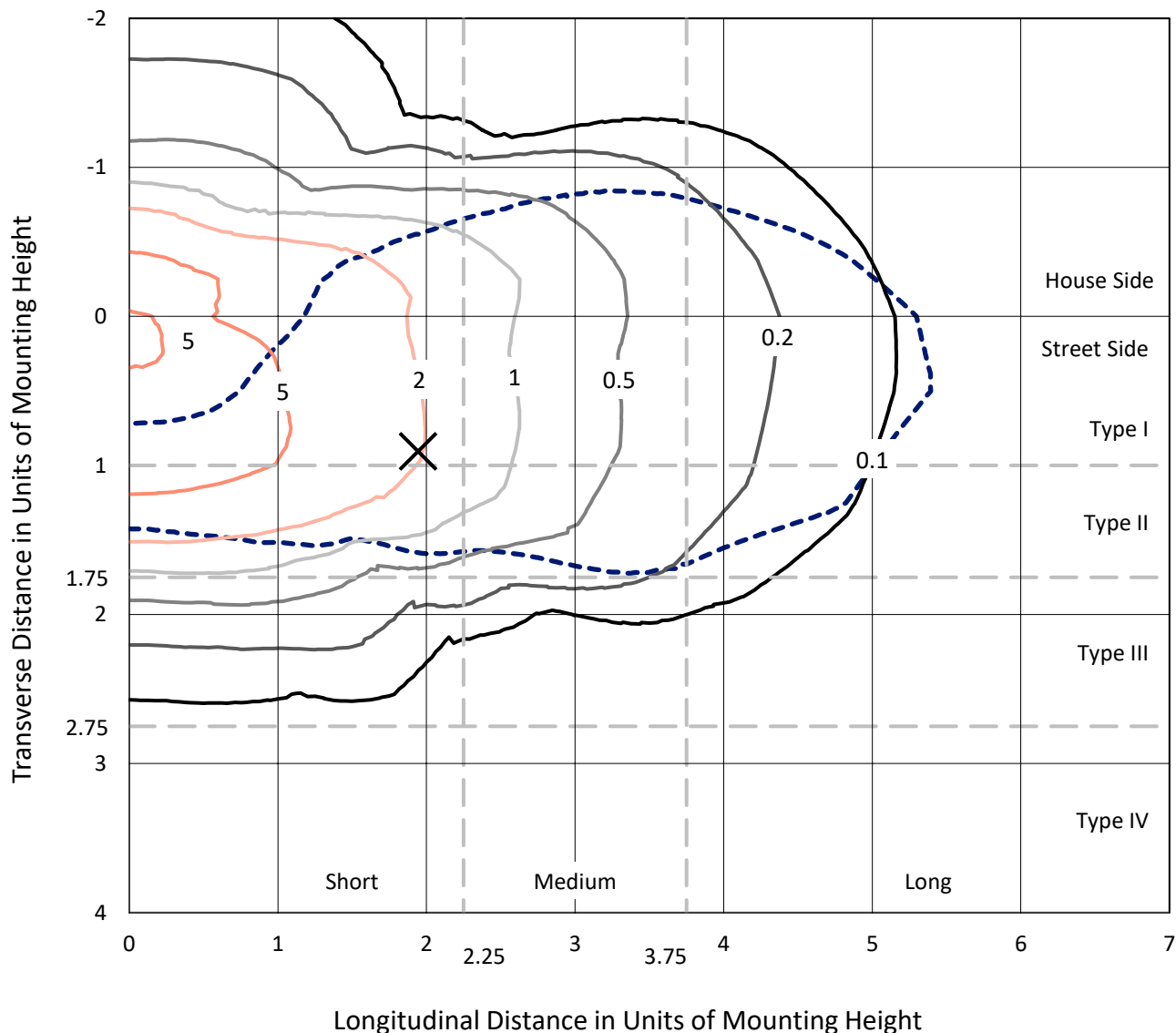
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

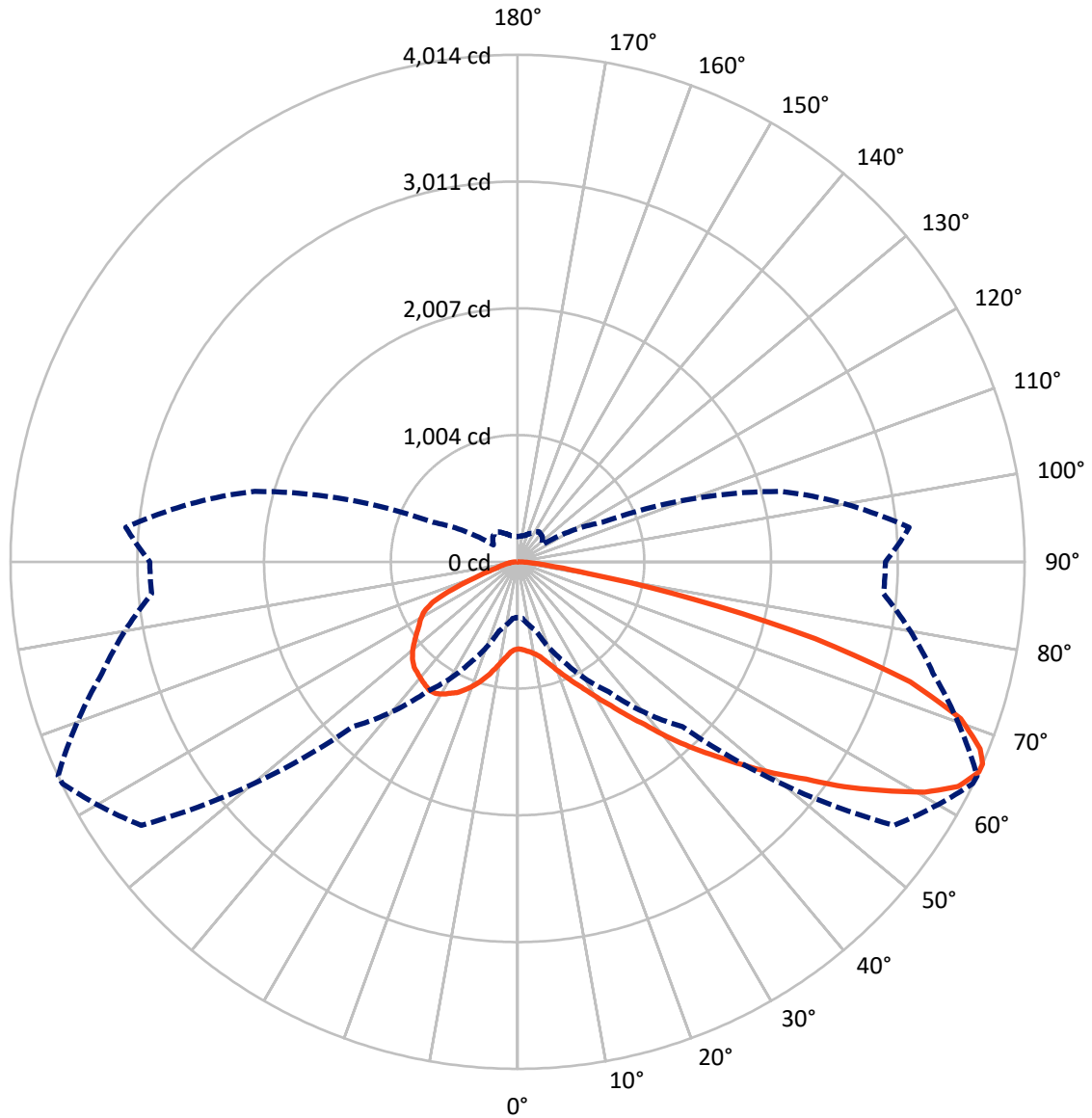
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 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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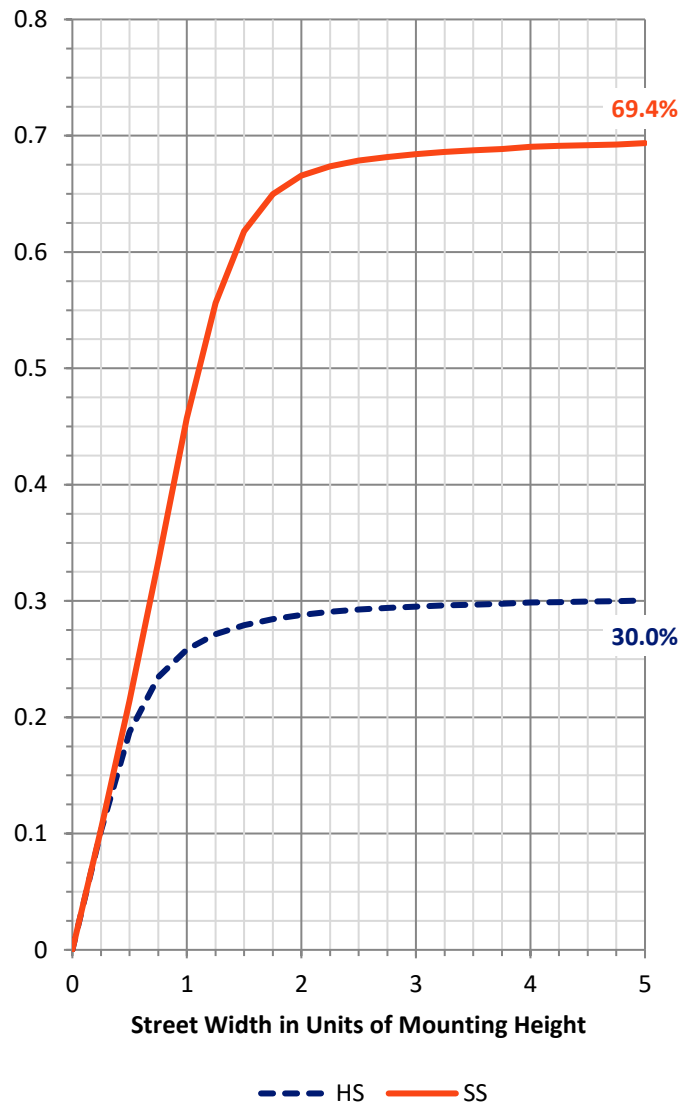
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2101.2	0.0	2101.2
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4818.8	0.0	4818.8
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6920.0	0.0	6920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	245.3	3.5
20°-30°	480.3	6.9
30°-40°	784.9	11.3
40°-50°	1245.8	18.0
50°-60°	1602.2	23.2
60°-70°	1444.9	20.9
70°-80°	896.2	13.0
80°-90°	150.2	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°	6920.0	100.0
0°-180°	6920.0	100.0

**Coefficient of Utilization**



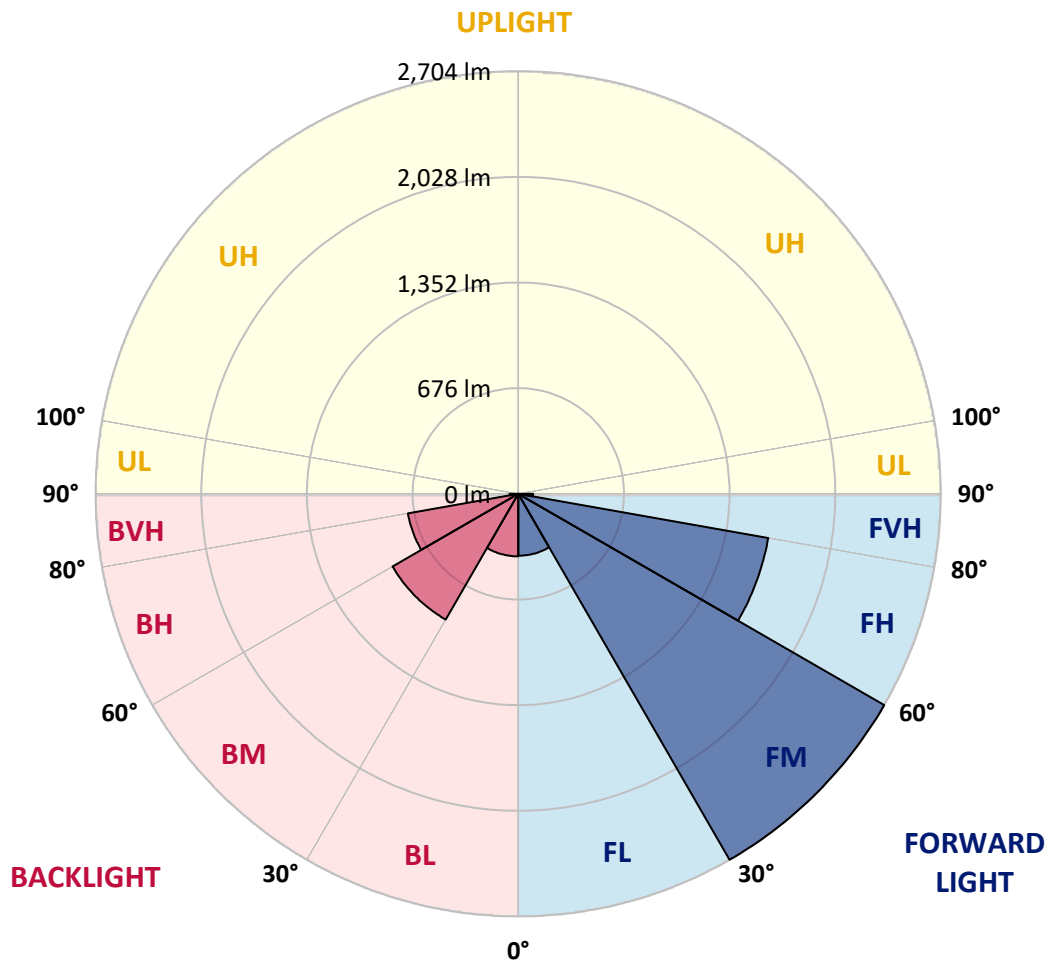
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.7	5.7			
FM (30°-60°)	2704.0	39.1			
FH (60°-80°)	1624.1	23.5			G1/1800
FVH (80°-90°)	95.0	1.4			G1/100
BL (0°-30°)	400.2	5.8	B1/500		
BM (30°-60°)	928.9	13.4	B1/1000		
BH (60°-80°)	716.9	10.4	B2/1000		G2/1000
BVH (80°-90°)	55.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8
2.5°	691.4	693.1	694.8	691.4	694.8	696.5	693.1	693.1	694.8	691.4	691.4
5°	686.4	688.1	691.4	693.1	699.8	703.2	704.9	704.9	706.5	704.9	706.5
7.5°	673.0	673.0	679.7	683.0	693.1	704.9	711.6	721.6	721.6	723.3	728.4
10°	686.4	686.4	691.4	696.5	704.9	714.9	725.0	736.8	740.1	751.9	758.6
12.5°	706.5	709.9	716.6	723.3	733.4	745.1	753.5	765.3	767.0	778.7	792.1
15°	740.1	743.5	746.8	755.2	768.6	783.7	798.8	807.2	810.6	817.3	827.4
17.5°	790.5	793.8	795.5	800.5	810.6	830.7	852.5	859.3	862.6	862.6	871.0
20°	876.0	874.4	871.0	860.9	860.9	879.4	909.6	921.4	924.7	918.0	913.0
22.5°	975.1	973.4	960.0	948.2	939.8	943.2	973.4	993.5	991.8	978.4	958.3
25°	1104.3	1107.6	1085.8	1055.6	1030.4	1023.7	1042.2	1062.3	1065.7	1040.5	1006.9
27.5°	1258.7	1253.7	1241.9	1193.2	1144.6	1114.4	1124.4	1146.2	1147.9	1121.1	1067.4
30°	1439.9	1431.5	1401.3	1351.0	1275.5	1233.5	1225.1	1243.6	1248.6	1203.3	1126.1
32.5°	1641.3	1632.9	1594.3	1517.1	1434.9	1364.4	1337.6	1362.7	1359.4	1307.4	1199.9
35°	1884.7	1883.0	1812.5	1716.8	1612.8	1518.8	1481.9	1481.9	1492.0	1414.8	1293.9
37.5°	2210.3	2223.7	2119.6	1970.3	1824.3	1698.4	1636.3	1632.9	1634.6	1550.7	1399.7
40°	2503.9	2498.9	2438.5	2299.2	2086.1	1924.9	1832.6	1812.5	1817.5	1710.1	1537.3
42.5°	2673.4	2678.5	2663.4	2603.0	2416.7	2213.6	2055.9	2002.1	2003.8	1869.6	1668.2
45°	2779.2	2784.2	2782.5	2812.7	2738.9	2547.6	2322.7	2198.5	2191.8	2050.8	1822.6
47.5°	2839.6	2842.9	2864.8	2926.9	2987.3	2943.6	2618.1	2416.7	2403.2	2220.3	1977.0
50°	2772.5	2774.1	2861.4	3009.1	3156.8	3289.4	2920.1	2633.2	2629.8	2408.3	2128.0
52.5°	2420.0	2450.2	2643.2	2952.0	3282.6	3534.4	3269.2	2888.3	2859.7	2586.2	2279.1
55°	1975.3	1988.7	2210.3	2603.0	3259.2	3685.4	3532.7	3163.5	3143.4	2784.2	2426.7
57.5°	1542.3	1555.7	1819.2	2146.5	2900.0	3677.0	3719.0	3460.5	3415.2	2957.1	2574.4
60°	995.2	1037.2	1342.6	1745.4	2347.9	3421.9	3813.0	3745.8	3703.9	3128.3	2700.3
62.5°	676.3	683.0	874.4	1293.9	1757.1	2780.9	3806.3	3922.1	3915.3	3299.4	2826.2
65°	439.7	449.8	565.6	876.0	1257.0	1846.1	3638.4	4007.7	4014.4	3405.2	2908.4
66°	372.6	379.3	468.2	736.8	1100.9	1463.4	3490.8	4000.9	4014.4	3453.8	2933.6
67.5°	323.9	328.9	374.2	543.8	899.5	1052.3	3106.4	3912.0	3950.6	3499.1	2965.5
70°	278.6	285.3	327.3	370.9	642.8	614.2	1966.9	3683.8	3722.4	3521.0	2985.6
72.5°	229.9	235.0	276.9	335.6	466.6	412.8	867.7	3153.4	3250.8	3440.4	2953.7
75°	181.3	184.6	223.2	280.3	357.5	322.2	377.6	2312.6	2435.1	3032.6	2829.5
77.5°	141.0	142.7	172.9	218.2	327.3	250.1	233.3	1126.1	1424.8	2342.8	2492.2
80°	97.3	100.7	127.5	164.5	240.0	198.0	156.1	439.7	558.9	1555.7	1889.7
82.5°	63.8	65.5	87.3	124.2	159.4	189.6	102.4	213.1	235.0	716.6	819.0
85°	43.6	43.6	62.1	77.2	109.1	125.9	67.1	112.4	122.5	271.9	99.0
87.5°	21.8	21.8	30.2	40.3	52.0	48.7	40.3	40.3	40.3	88.9	28.5
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°	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8
2.5°	693.1	693.1	694.8	696.5	698.2	698.2	699.8	699.8	698.2	699.8	701.5
5°	708.2	709.9	713.3	718.3	726.7	735.1	743.5	748.5	753.5	755.2	751.9
7.5°	731.7	735.1	746.8	760.2	773.7	793.8	805.6	812.3	815.6	819.0	815.6
10°	761.9	768.6	785.4	808.9	832.4	857.6	871.0	881.1	882.8	886.1	882.8
12.5°	797.2	808.9	834.1	867.7	896.2	921.4	931.4	924.7	909.6	902.9	901.2
15°	839.1	850.9	886.1	928.1	961.6	973.4	958.3	936.5	919.7	918.0	916.3
17.5°	876.0	892.8	941.5	985.1	1017.0	1005.3	965.0	951.6	946.5	953.2	951.6
20°	923.0	936.5	985.1	1038.8	1055.6	1010.3	981.8	973.4	968.3	968.3	965.0
22.5°	961.6	971.7	1030.4	1089.2	1079.1	1013.7	993.5	976.7	960.0	958.3	953.2
25°	1006.9	1010.3	1072.4	1136.2	1082.5	1017.0	981.8	953.2	936.5	931.4	933.1
27.5°	1048.9	1057.3	1111.0	1168.1	1074.1	998.6	941.5	904.6	879.4	877.7	877.7
30°	1102.6	1102.6	1151.3	1203.3	1055.6	951.6	876.0	822.3	802.2	800.5	797.2
32.5°	1163.0	1153.0	1199.9	1228.5	1015.3	887.8	787.1	726.7	694.8	688.1	683.0
35°	1246.9	1225.1	1258.7	1233.5	975.1	797.2	674.7	605.8	582.4	572.3	572.3
37.5°	1344.3	1312.4	1347.6	1218.4	913.0	691.4	557.2	505.2	480.0	464.9	469.9
40°	1458.4	1418.1	1438.3	1201.6	845.8	574.0	459.8	428.0	397.7	377.6	377.6
42.5°	1592.7	1525.5	1540.6	1184.8	750.2	471.6	397.7	375.9	352.4	332.3	337.3
45°	1721.9	1656.4	1641.3	1168.1	649.5	402.8	372.6	357.5	335.6	312.2	312.2
47.5°	1871.2	1787.3	1730.3	1137.9	550.5	381.0	379.3	357.5	315.5	281.9	278.6
50°	2012.2	1935.0	1810.8	1092.5	495.1	399.4	377.6	325.6	285.3	263.5	261.8
52.5°	2161.6	2081.0	1876.3	1037.2	466.6	391.0	347.4	298.7	268.5	246.7	241.7
55°	2309.3	2267.3	1935.0	983.5	421.2	364.2	322.2	281.9	250.1	229.9	226.6
57.5°	2477.1	2460.3	1985.4	929.7	350.8	330.6	303.8	270.2	240.0	224.9	223.2
60°	2623.1	2681.8	2045.8	889.5	298.7	305.4	295.4	268.5	246.7	229.9	229.9
62.5°	2777.5	2895.0	2099.5	837.4	260.1	290.3	297.0	266.8	238.3	223.2	223.2
65°	2911.8	3113.1	2154.9	741.8	233.3	278.6	292.0	248.4	214.8	203.1	199.7
66°	2968.8	3175.2	2171.7	683.0	223.2	270.2	283.6	238.3	204.7	194.7	193.0
67.5°	3035.9	3272.6	2191.8	557.2	208.1	251.7	265.2	223.2	188.0	181.3	177.9
70°	3129.9	3292.7	2180.0	364.2	181.3	216.5	236.6	199.7	167.8	162.8	157.8
72.5°	3140.0	3155.1	2062.6	229.9	157.8	186.3	208.1	179.6	147.7	142.7	139.3
75°	2973.9	2796.0	1745.4	164.5	139.3	164.5	182.9	156.1	122.5	115.8	112.4
77.5°	2539.2	2218.6	1255.3	122.5	120.8	141.0	152.7	135.9	102.4	97.3	95.7
80°	1782.3	1505.4	629.3	92.3	95.7	117.5	127.5	114.1	85.6	78.9	75.5
82.5°	721.6	639.4	216.5	68.8	72.2	88.9	109.1	94.0	65.5	57.1	50.3
85°	82.2	139.3	94.0	47.0	48.7	60.4	73.8	57.1	38.6	31.9	26.9
87.5°	16.8	30.2	33.6	18.5	16.8	23.5	33.6	20.1	13.4	5.0	6.7
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)