

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: P594729

Luminaire Tested: **ISS-PA1D-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594729
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: ISS-PA1D-740-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8467 lumens
Efficiency: N/A
Efficacy: 134.4 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

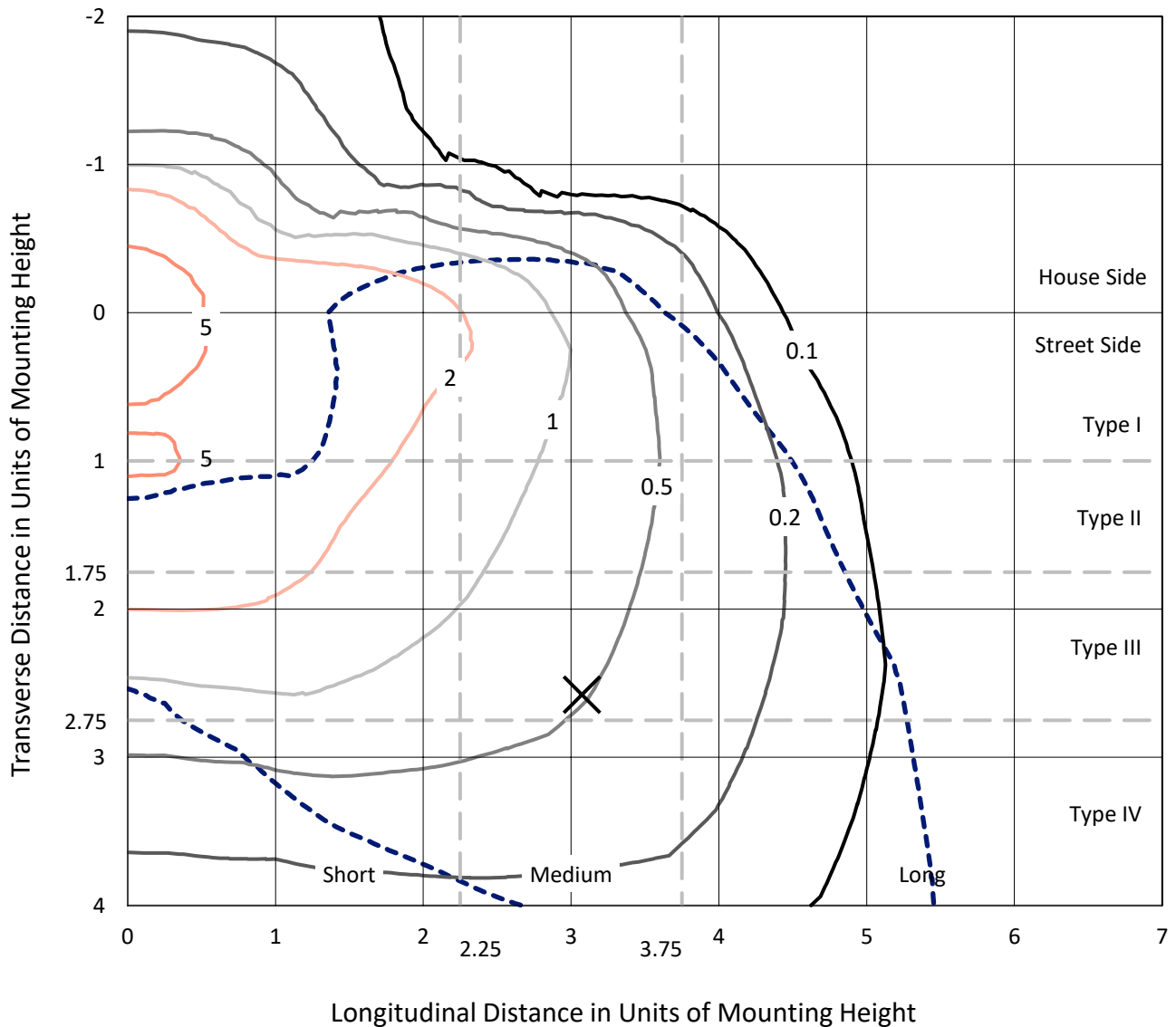
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

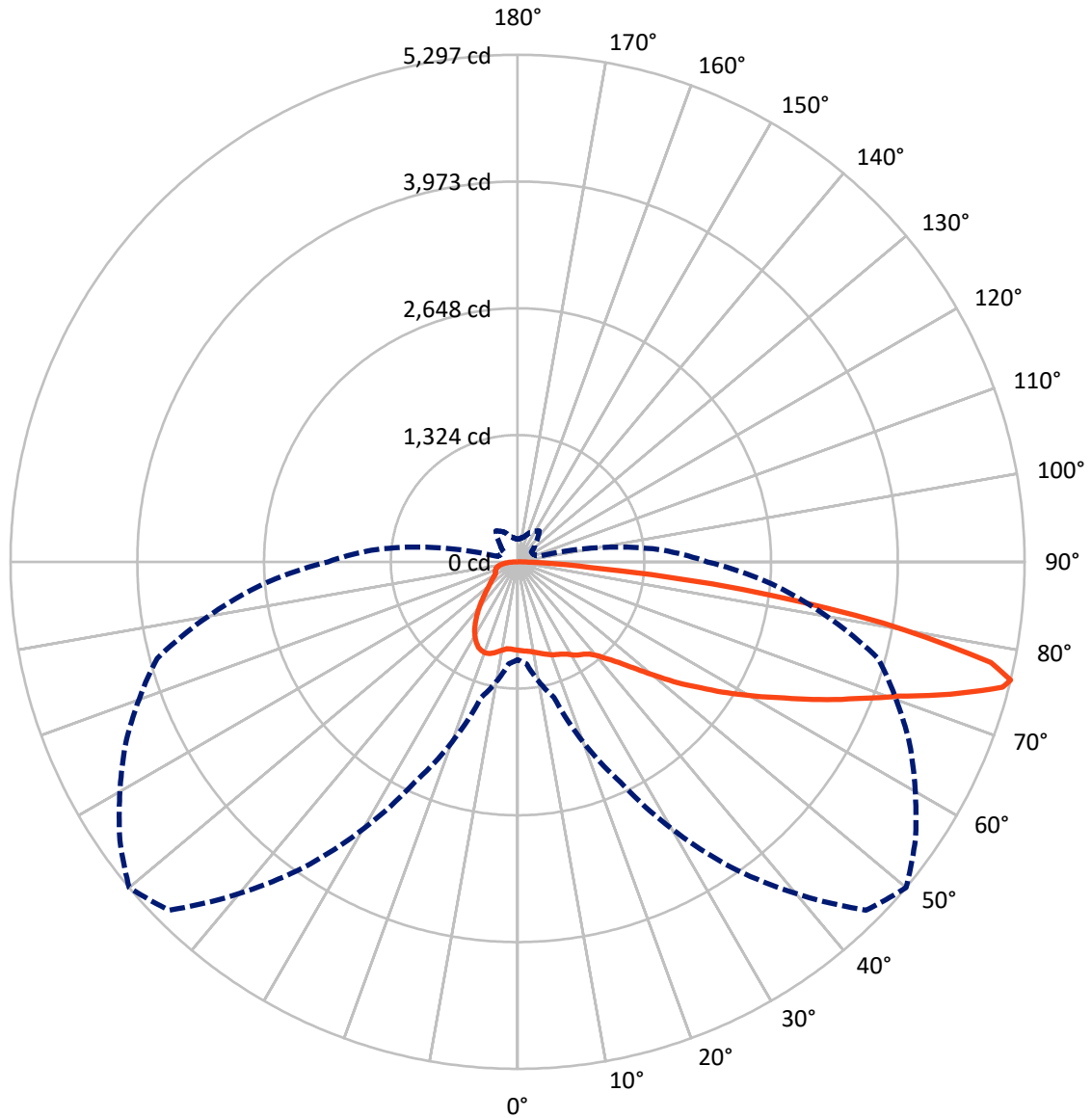
× Max cd
 - - - 1/2 Max cd



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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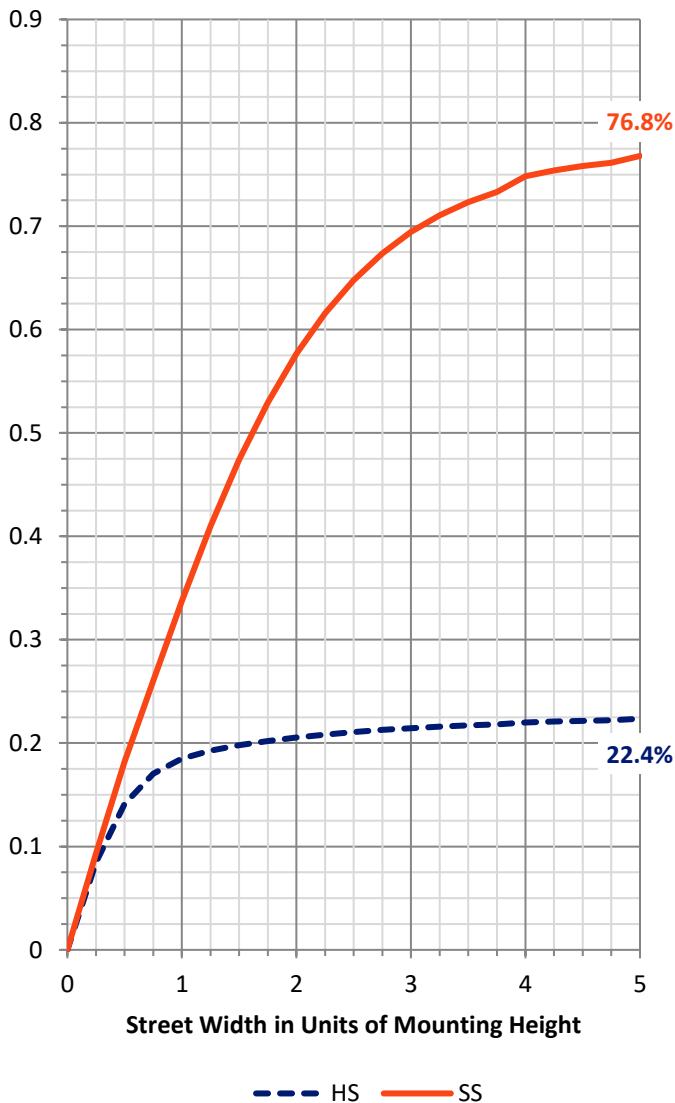
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.9	0.0	1936.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6530.1	0.0	6530.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	8467.0	0.0	8467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	1.1
10°-20°	281.7	3.3
20°-30°	475.9	5.6
30°-40°	652.4	7.7
40°-50°	960.8	11.3
50°-60°	1511.4	17.9
60°-70°	2175.5	25.7
70°-80°	1978.1	23.4
80°-90°	341.5	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°	8467.0	100.0
0°-180°	8467.0	100.0

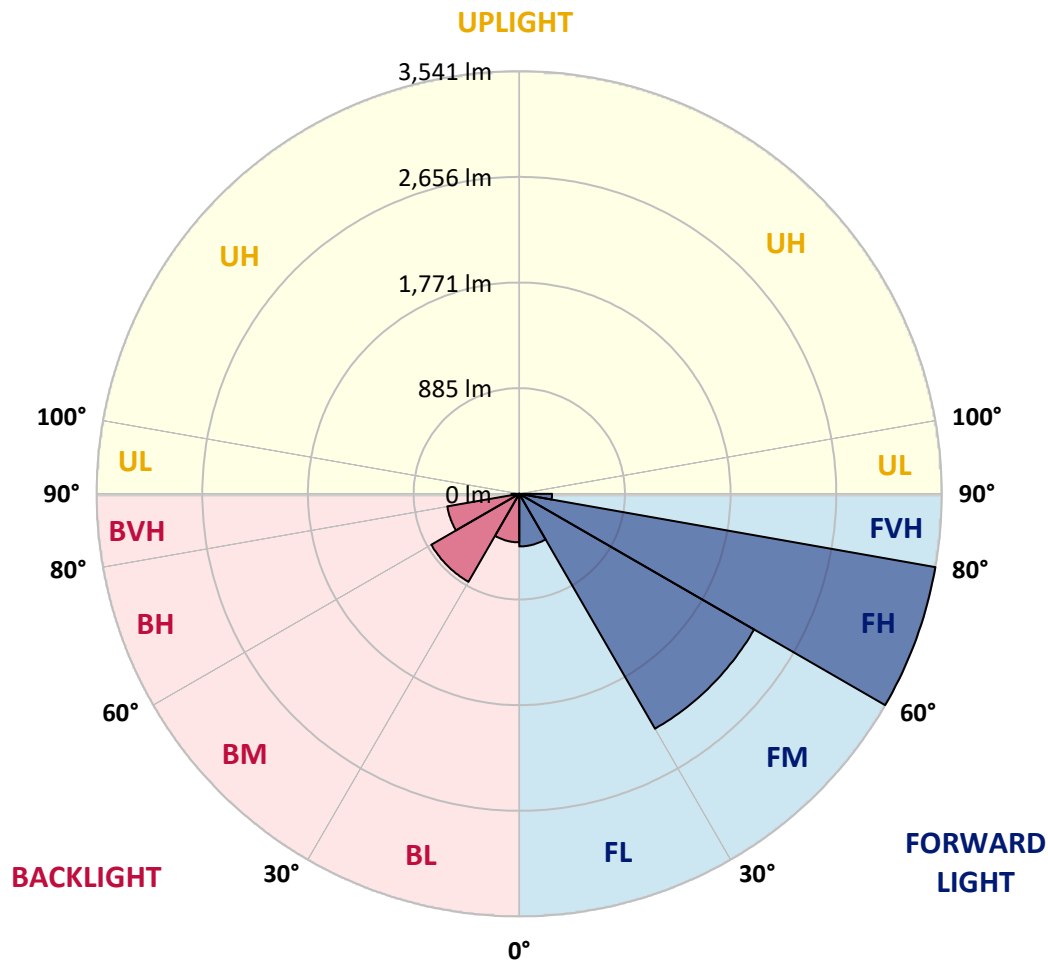


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.7	5.2			
FM (30°-60°)	2273.2	26.8			
FH (60°-80°)	3541.3	41.8			G2/5000
FVH (80°-90°)	274.9	3.2			G3/500
BL (0°-30°)	406.6	4.8	B1/500		
BM (30°-60°)	851.3	10.1	B1/1000		
BH (60°-80°)	612.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	66.6	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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	943.6	943.6	945.7	941.5	941.5	931.2	931.2	929.1	925.0	922.9	918.7
5°	978.9	978.9	972.7	962.3	956.1	943.6	937.4	933.3	925.0	914.6	904.2
7.5°	1016.2	1012.1	1007.9	991.3	978.9	956.1	945.7	939.5	922.9	908.4	902.1
10°	1055.6	1049.4	1039.0	1018.3	999.6	972.7	960.2	951.9	933.3	920.8	906.3
12.5°	1078.4	1078.4	1066.0	1041.1	1016.2	983.0	976.8	966.4	947.8	931.2	916.7
15°	1101.2	1103.3	1090.9	1061.8	1032.8	1007.9	997.5	991.3	970.6	945.7	927.0
17.5°	1124.1	1122.0	1109.5	1076.4	1045.2	1022.4	1016.2	1007.9	987.2	964.4	945.7
20°	1140.6	1136.5	1132.3	1090.9	1059.8	1045.2	1036.9	1030.7	1010.0	985.1	960.2
22.5°	1144.8	1148.9	1144.8	1095.0	1070.1	1053.5	1051.5	1045.2	1028.7	1005.8	981.0
25°	1146.9	1148.9	1155.2	1107.5	1084.6	1072.2	1068.1	1063.9	1051.5	1032.8	999.6
27.5°	1157.2	1159.3	1159.3	1115.8	1103.3	1095.0	1090.9	1090.9	1084.6	1061.8	1028.7
30°	1159.3	1161.4	1165.5	1136.5	1132.3	1126.1	1128.2	1126.1	1115.8	1090.9	1053.5
32.5°	1173.8	1175.9	1186.3	1148.9	1153.1	1159.3	1161.4	1159.3	1138.6	1117.8	1086.7
35°	1221.5	1219.5	1227.7	1180.0	1175.9	1178.0	1184.2	1182.1	1173.8	1155.2	1134.4
37.5°	1375.0	1375.0	1352.2	1252.6	1221.5	1217.4	1221.5	1231.9	1234.0	1217.4	1200.8
40°	1644.6	1630.1	1617.6	1402.0	1302.4	1277.5	1290.0	1296.2	1312.8	1312.8	1312.8
42.5°	1922.5	1924.6	1920.4	1634.2	1447.6	1385.4	1387.4	1402.0	1437.2	1443.4	1462.1
45°	2169.3	2183.8	2214.9	1903.8	1661.2	1522.2	1507.7	1522.2	1572.0	1613.5	1661.2
47.5°	2362.2	2345.6	2414.0	2185.9	1905.9	1708.9	1671.6	1675.7	1744.1	1810.5	1885.2
50°	2528.1	2532.2	2563.3	2474.2	2214.9	1920.4	1870.7	1862.4	1959.8	2030.3	2156.9
52.5°	2714.7	2702.3	2747.9	2727.2	2515.6	2179.7	2100.9	2076.0	2181.7	2281.3	2418.2
55°	2803.9	2816.4	2909.7	2961.5	2799.8	2411.9	2324.8	2333.1	2445.1	2550.9	2741.7
57.5°	2961.5	2974.0	3081.8	3189.7	3052.8	2658.7	2582.0	2582.0	2708.5	2826.7	3121.2
60°	3177.2	3179.3	3289.2	3475.8	3274.7	2897.2	2847.5	2845.4	2982.3	3119.1	3569.2
62.5°	3272.6	3297.5	3461.3	3704.0	3565.0	3189.7	3131.6	3148.2	3270.5	3430.2	4069.0
65°	3144.0	3197.9	3540.1	3857.4	3824.3	3494.5	3471.7	3494.5	3569.2	3741.3	4597.8
67.5°	2718.9	2791.5	3395.0	3961.1	4031.7	3847.1	3813.9	3809.7	3857.4	4050.3	4931.7
70°	2499.0	2542.6	3011.3	4000.5	4197.6	4203.8	4203.8	4176.8	4170.6	4311.6	4962.8
72.5°	2057.3	2102.9	2540.5	3780.7	4355.2	4680.8	4728.5	4628.9	4475.5	4446.4	4442.3
75°	1466.2	1499.4	1876.9	2974.0	4154.0	5139.1	5234.5	5041.6	4614.4	4151.9	3239.4
76°	1022.4	1070.1	1466.2	2540.5	3901.0	5147.4	5296.7	5072.7	4521.1	3898.9	2669.1
77.5°	518.5	535.1	848.2	1706.8	3264.3	4911.0	5056.2	4805.2	4114.6	3150.2	1694.4
80°	197.0	203.2	302.8	622.2	1791.8	3813.9	3869.9	3531.8	2723.0	1346.0	609.7
82.5°	103.7	107.8	170.1	306.9	736.2	2096.7	2366.3	1970.2	1068.1	404.4	178.4
85°	51.8	56.0	99.5	186.7	365.0	655.4	759.0	717.6	354.6	153.5	66.4
87.5°	20.7	24.9	49.8	83.0	147.2	128.6	143.1	184.6	114.1	72.6	22.8
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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	918.7	916.7	918.7	916.7	918.7	918.7	920.8	916.7	916.7	920.8	914.6
5°	904.2	902.1	904.2	908.4	910.4	914.6	922.9	920.8	925.0	929.1	931.2
7.5°	898.0	895.9	902.1	904.2	910.4	918.7	931.2	939.5	943.6	951.9	947.8
10°	904.2	904.2	912.5	918.7	929.1	939.5	949.8	958.1	968.5	974.7	972.7
12.5°	914.6	912.5	927.0	935.3	949.8	960.2	968.5	972.7	981.0	989.2	987.2
15°	925.0	927.0	947.8	964.4	981.0	985.1	987.2	983.0	987.2	991.3	991.3
17.5°	945.7	947.8	970.6	989.2	1003.8	999.6	989.2	978.9	978.9	981.0	983.0
20°	962.3	966.4	993.4	1010.0	1018.3	1001.7	985.1	972.7	966.4	968.5	966.4
22.5°	981.0	989.2	1016.2	1024.5	1012.1	991.3	970.6	954.0	954.0	956.1	956.1
25°	1003.8	1007.9	1026.6	1022.4	999.6	968.5	951.9	945.7	943.6	945.7	947.8
27.5°	1024.5	1026.6	1036.9	1007.9	964.4	931.2	925.0	927.0	929.1	931.2	933.3
30°	1051.5	1055.6	1045.2	987.2	920.8	883.5	883.5	895.9	900.1	906.3	904.2
32.5°	1084.6	1088.8	1057.7	960.2	864.8	827.5	829.6	848.2	860.7	864.8	866.9
35°	1140.6	1132.3	1066.0	922.9	804.7	759.0	761.1	783.9	800.5	806.7	802.6
37.5°	1209.1	1207.0	1078.4	875.2	730.0	688.5	690.6	701.0	717.6	719.6	721.7
40°	1323.1	1306.6	1099.2	813.0	655.4	615.9	611.8	618.0	615.9	620.1	622.2
42.5°	1487.0	1443.4	1126.1	742.5	589.0	547.5	543.4	533.0	520.5	508.1	501.9
45°	1679.9	1611.4	1159.3	669.9	520.5	483.2	472.8	460.4	435.5	408.6	400.3
47.5°	1928.7	1798.1	1196.6	597.3	456.3	427.2	418.9	400.3	371.2	340.1	333.9
50°	2183.8	2017.9	1234.0	537.1	404.4	387.8	379.5	360.9	323.5	294.5	288.3
52.5°	2480.4	2235.7	1273.4	483.2	358.8	358.8	352.6	323.5	288.3	261.3	257.2
55°	2822.6	2459.6	1335.6	431.4	325.6	333.9	325.6	296.6	263.4	244.7	242.6
57.5°	3231.1	2743.8	1414.4	375.4	296.6	302.8	302.8	282.0	259.2	246.8	244.7
60°	3641.8	3032.0	1464.2	333.9	273.8	280.0	292.4	282.0	267.5	261.3	259.2
62.5°	4035.8	3326.5	1379.1	298.6	250.9	269.6	300.7	302.8	288.3	290.3	290.3
65°	4330.3	3550.5	1115.8	267.5	236.4	275.8	325.6	327.7	302.8	296.6	294.5
67.5°	4431.9	3612.7	750.8	246.8	228.1	280.0	354.6	346.3	302.8	290.3	284.1
70°	4239.0	3384.6	487.4	228.1	215.7	275.8	377.4	356.7	300.7	282.0	273.8
72.5°	3554.7	2886.9	325.6	211.5	203.2	271.7	392.0	356.7	294.5	267.5	259.2
75°	2467.9	1972.3	242.6	190.8	184.6	265.5	396.1	350.5	280.0	250.9	244.7
76°	1980.6	1478.7	219.8	182.5	176.3	261.3	394.0	344.3	269.6	242.6	236.4
77.5°	1250.6	850.3	184.6	168.0	163.8	253.0	385.7	329.7	255.1	228.1	221.9
80°	437.6	311.1	141.0	136.9	139.0	234.4	362.9	300.7	226.1	201.2	192.9
82.5°	174.2	143.1	105.8	105.8	109.9	201.2	327.7	265.5	197.0	165.9	153.5
85°	68.4	62.2	74.7	74.7	78.8	163.8	273.8	207.4	134.8	103.7	99.5
87.5°	20.7	29.0	33.2	35.3	37.3	83.0	155.5	91.3	60.1	43.6	35.3
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)