

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: P200044

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T4FT-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7962.8 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

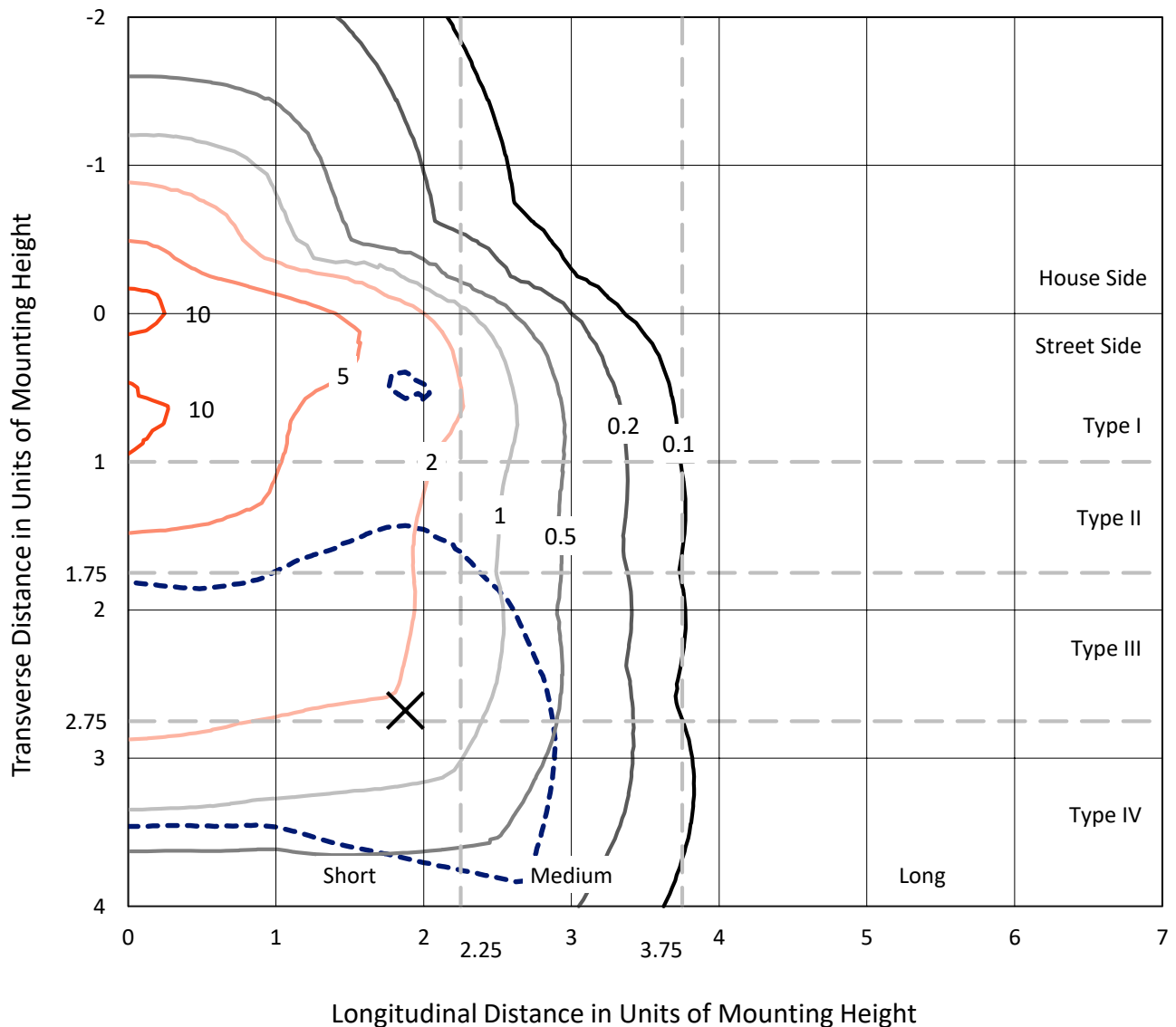
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

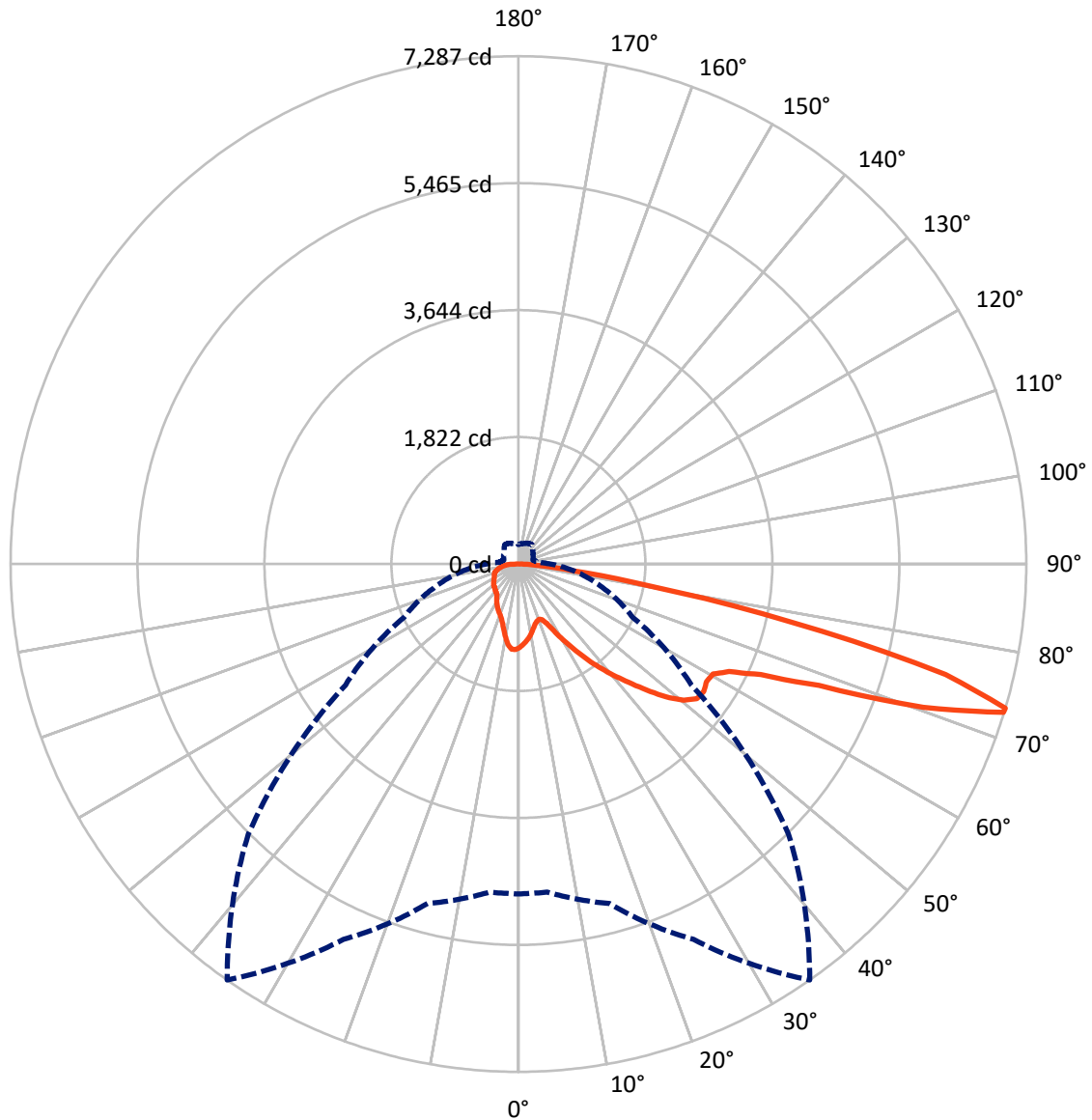
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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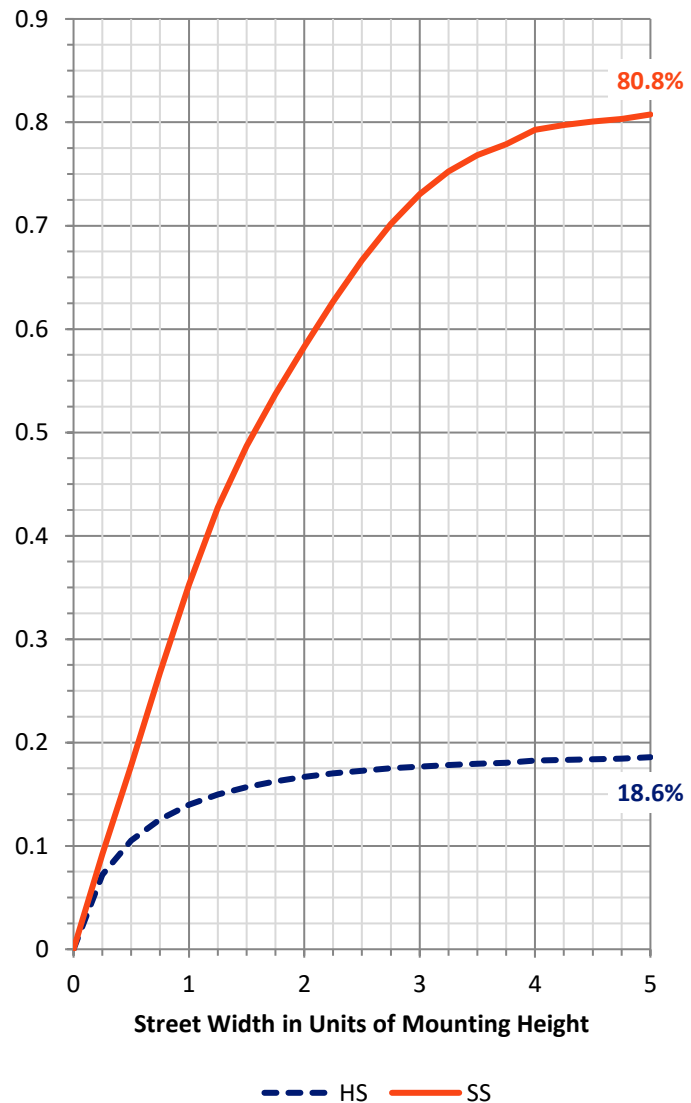
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.7	0.0	1518.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6444.1	0.0	6444.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	7962.8	0.0	7962.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.4
10°-20°	271.5	3.4
20°-30°	439.0	5.5
30°-40°	736.1	9.2
40°-50°	1134.7	14.3
50°-60°	1522.4	19.1
60°-70°	2028.1	25.5
70°-80°	1546.8	19.4
80°-90°	175.3	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°	7962.8	100.0
0°-180°	7962.8	100.0



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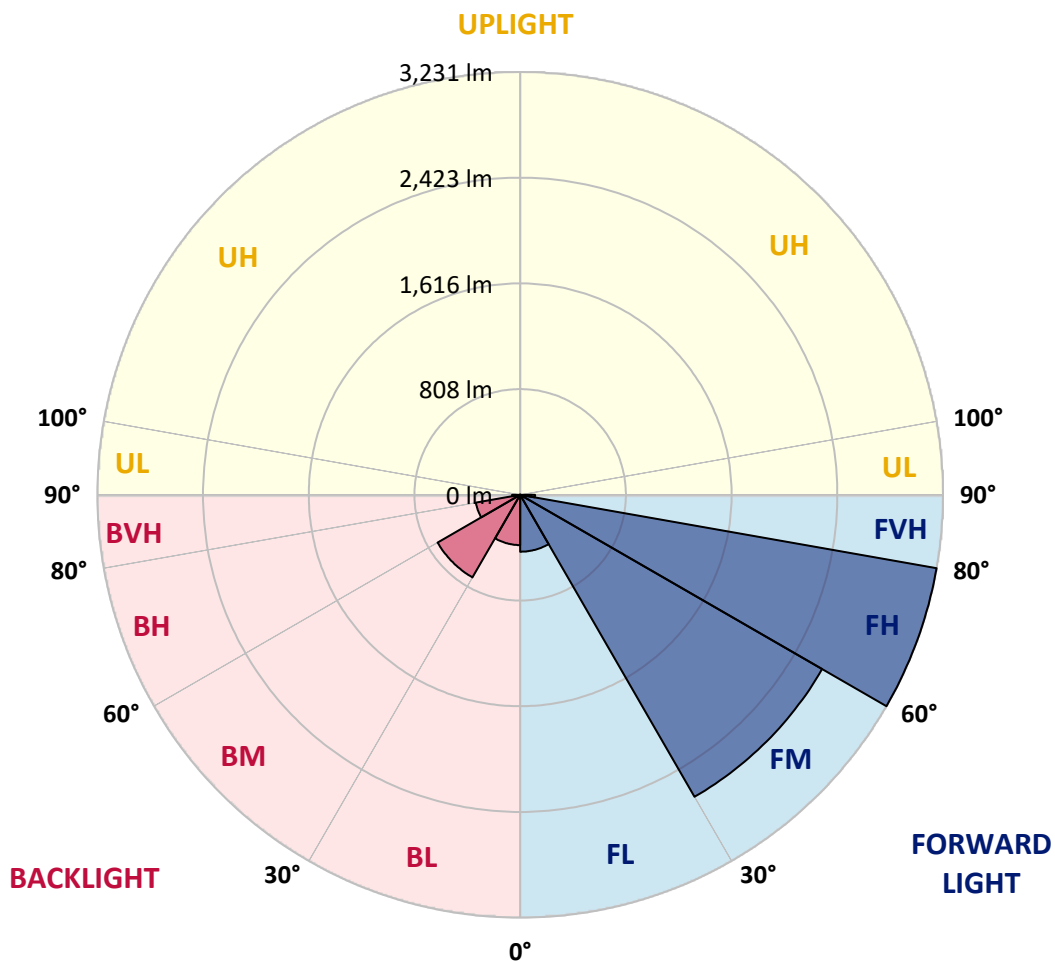
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.0	5.5			
FM (30°-60°)	2664.4	33.5			
FH (60°-80°)	3231.3	40.6			G2/5000
FVH (80°-90°)	113.3	1.4			G2/225
BL (0°-30°)	384.3	4.8	B1/500		
BM (30°-60°)	728.8	9.2	B1/1000		
BH (60°-80°)	343.6	4.3	B1/500		G1/500
BVH (80°-90°)	62.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1154.5	1156.7	1154.0	1157.5	1163.2	1169.3	1173.6	1179.7	1186.5	1196.1	1198.3
5°	1100.1	1103.5	1103.5	1109.6	1120.8	1130.8	1139.9	1149.9	1164.3	1180.8	1187.3
7.5°	1040.4	1042.4	1045.8	1055.0	1071.1	1085.2	1098.2	1114.2	1134.1	1156.0	1167.4
10°	968.6	971.2	976.6	989.6	1011.4	1030.9	1049.7	1071.9	1097.1	1124.2	1138.7
12.5°	917.8	917.0	919.3	928.8	948.0	971.7	998.7	1027.0	1058.0	1089.8	1107.4
15°	900.6	896.4	887.5	885.2	895.6	919.3	950.5	985.4	1022.4	1060.7	1082.5
17.5°	911.2	904.0	879.9	862.3	860.8	878.8	912.0	951.0	993.8	1040.4	1067.6
20°	978.5	961.3	902.1	861.2	847.0	855.8	884.9	926.2	976.6	1038.5	1073.4
22.5°	1139.5	1114.2	988.5	912.5	864.6	853.9	875.7	919.6	978.5	1062.2	1106.6
25°	1373.9	1338.0	1136.9	1040.0	941.4	884.5	889.5	934.5	1005.6	1117.2	1170.8
27.5°	1559.0	1535.6	1330.7	1220.2	1081.3	967.1	934.1	972.0	1061.1	1207.6	1262.3
30°	1669.2	1655.0	1538.0	1424.4	1260.0	1098.6	1019.8	1042.4	1147.9	1332.6	1377.8
32.5°	1796.9	1788.5	1731.1	1626.7	1452.7	1271.4	1155.5	1147.5	1264.1	1482.8	1503.5
35°	1929.1	1926.5	1892.8	1817.8	1659.5	1499.4	1335.7	1281.4	1390.8	1638.9	1625.9
37.5°	2052.2	2047.6	2028.2	1984.5	1876.0	1744.1	1519.2	1418.6	1527.2	1788.0	1730.3
40°	2279.0	2243.1	2176.1	2143.2	2094.7	1950.2	1664.9	1546.8	1668.7	1930.3	1820.6
42.5°	2555.5	2497.0	2372.3	2327.2	2320.3	2112.6	1764.3	1671.0	1811.4	2071.3	1909.2
45°	2773.1	2718.1	2610.5	2553.6	2578.8	2259.9	1864.2	1803.8	1958.2	2219.4	2000.6
47.5°	3005.1	2918.8	2776.5	2793.8	2848.7	2399.2	1965.8	1946.4	2119.2	2384.9	2114.1
50°	3013.6	2947.4	2885.1	2987.9	3073.6	2527.1	2093.2	2095.8	2316.1	2593.4	2265.3
52.5°	2838.8	2824.7	2923.7	3085.5	3209.0	2628.6	2238.0	2250.3	2568.1	2832.6	2431.2
55°	2777.7	2761.6	2875.9	3051.4	3227.3	2712.3	2395.3	2417.5	2872.9	3085.1	2592.9
57.5°	2926.7	2891.2	2898.8	3035.3	3182.6	2804.0	2566.6	2611.3	3204.0	3305.7	2696.9
60°	3343.6	3267.5	3122.9	3119.5	3206.6	2941.7	2764.7	2819.3	3548.2	3411.3	2656.4
62.5°	3928.2	3852.2	3581.4	3405.2	3392.2	3168.8	3007.8	3022.3	3746.9	3268.3	2409.0
65°	4561.1	4493.1	4190.5	3941.6	3821.6	3545.1	3290.5	3113.1	3682.0	2874.7	1976.2
67.5°	5329.3	5256.3	4996.2	4766.4	4650.9	4152.3	3488.8	3026.2	3269.4	2227.0	1420.6
70°	5866.5	5792.0	5689.4	5875.8	6158.3	5028.3	3514.6	2673.2	2442.0	1480.3	855.1
72.5°	5165.7	5130.9	5317.8	6102.1	7279.1	5559.8	3176.8	1946.4	1418.3	785.8	494.8
73°	4732.8	4725.1	5044.1	5943.3	7287.1	5478.0	3028.8	1809.2	1216.4	695.2	452.4
75°	2137.1	2198.8	2897.7	4539.7	6331.1	4514.0	2131.7	1037.8	687.1	480.3	341.4
77.5°	513.5	535.0	906.7	2155.9	3998.3	2690.1	965.9	513.2	439.3	339.1	249.3
80°	218.7	225.9	349.1	796.5	1882.4	1083.3	445.1	343.7	304.0	236.6	174.7
82.5°	121.6	129.3	198.1	361.3	759.8	369.4	271.5	239.4	200.0	142.6	113.5
85°	68.9	72.9	115.9	201.9	322.0	148.4	162.5	159.1	112.7	73.4	55.8
87.5°	32.4	35.2	55.8	93.6	126.2	58.1	82.6	91.0	70.7	44.7	29.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1201.1	1208.0	1215.9	1220.2	1224.0	1228.6	1233.2	1233.2	1234.0	1234.3
5°	1192.7	1206.8	1219.5	1224.8	1225.9	1225.9	1224.8	1218.7	1213.4	1215.6
7.5°	1175.1	1195.8	1206.4	1204.5	1190.0	1173.1	1159.0	1141.8	1133.0	1131.5
10°	1149.9	1173.6	1175.4	1156.3	1120.4	1084.4	1054.6	1025.5	1011.7	1008.4
12.5°	1121.9	1143.7	1131.5	1092.0	1034.3	981.9	944.1	914.7	901.7	898.2
15°	1099.3	1114.2	1083.3	1021.3	948.7	893.3	861.9	840.1	830.9	828.3
17.5°	1087.4	1090.5	1033.9	950.2	873.0	826.8	807.2	796.9	793.4	791.6
20°	1093.2	1071.9	986.9	884.1	811.0	778.6	774.0	771.3	770.5	769.4
22.5°	1121.9	1066.1	943.7	821.4	756.7	742.6	746.5	746.0	745.2	744.5
25°	1173.1	1071.1	901.7	761.7	711.3	708.2	715.1	715.1	712.1	712.1
27.5°	1240.8	1081.3	854.6	705.2	670.0	670.3	675.7	674.1	670.8	668.4
30°	1323.4	1087.9	799.6	654.3	631.3	629.8	631.3	624.9	614.5	613.7
32.5°	1408.0	1079.8	735.8	609.1	590.4	586.9	585.8	576.7	564.8	561.4
35°	1484.4	1050.4	670.8	573.2	551.4	543.8	549.1	546.1	535.4	532.6
37.5°	1540.2	995.7	612.2	541.5	523.5	521.6	525.0	526.2	513.5	510.9
40°	1577.7	921.6	562.1	514.7	518.1	510.9	499.5	491.3	487.6	486.4
42.5°	1608.0	844.3	520.1	502.0	519.3	498.2	473.4	460.4	467.3	470.4
45°	1642.7	768.9	484.9	486.4	513.5	483.7	455.4	442.8	445.4	446.3
47.5°	1690.6	677.2	447.0	461.2	494.4	473.7	444.3	426.3	413.8	408.0
50°	1756.7	568.5	407.6	432.8	475.8	466.5	427.1	408.0	384.7	379.3
52.5°	1802.6	467.3	375.1	409.1	458.9	452.0	413.3	388.5	364.1	359.5
55°	1777.7	388.1	346.8	382.7	436.7	434.0	401.8	368.6	349.5	345.7
57.5°	1653.4	338.0	325.0	358.0	409.5	418.7	386.6	351.9	338.0	335.3
60°	1416.3	306.7	311.3	341.1	387.4	403.3	371.3	342.6	333.5	331.5
62.5°	1098.9	285.6	300.9	328.9	370.2	392.7	362.8	341.4	338.0	335.8
65°	787.3	268.8	289.9	316.7	354.4	382.7	359.8	339.9	340.7	338.8
67.5°	535.0	253.9	276.4	302.8	339.1	374.0	355.6	334.6	344.1	341.9
70°	374.3	239.4	260.8	285.2	320.0	361.7	348.0	326.5	325.8	316.7
72.5°	292.2	220.2	239.4	260.8	295.5	344.5	332.7	308.5	296.0	286.4
73°	278.7	215.7	234.1	255.4	290.2	340.4	328.5	303.6	289.4	280.7
75°	230.5	195.8	212.6	231.7	267.2	320.4	307.8	281.1	263.1	257.8
77.5°	181.3	167.5	183.5	200.7	235.6	291.4	277.2	251.7	241.7	237.1
80°	134.2	138.8	153.0	168.3	204.2	260.4	247.8	222.2	266.5	255.4
82.5°	94.4	105.1	118.1	131.8	171.3	230.2	214.9	188.5	195.0	162.1
85°	55.8	68.9	81.1	92.9	123.5	190.7	177.4	150.2	123.1	117.4
87.5°	32.4	38.2	41.6	53.9	84.9	143.7	125.0	111.2	63.8	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)