

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: STREETWORKS

Report Number: P148513

Luminaire Tested: **TMU-F04-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148513
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F04-LED-E-U-5XQ-8030
Description: TALON MEDIUM LED AREA LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8863.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

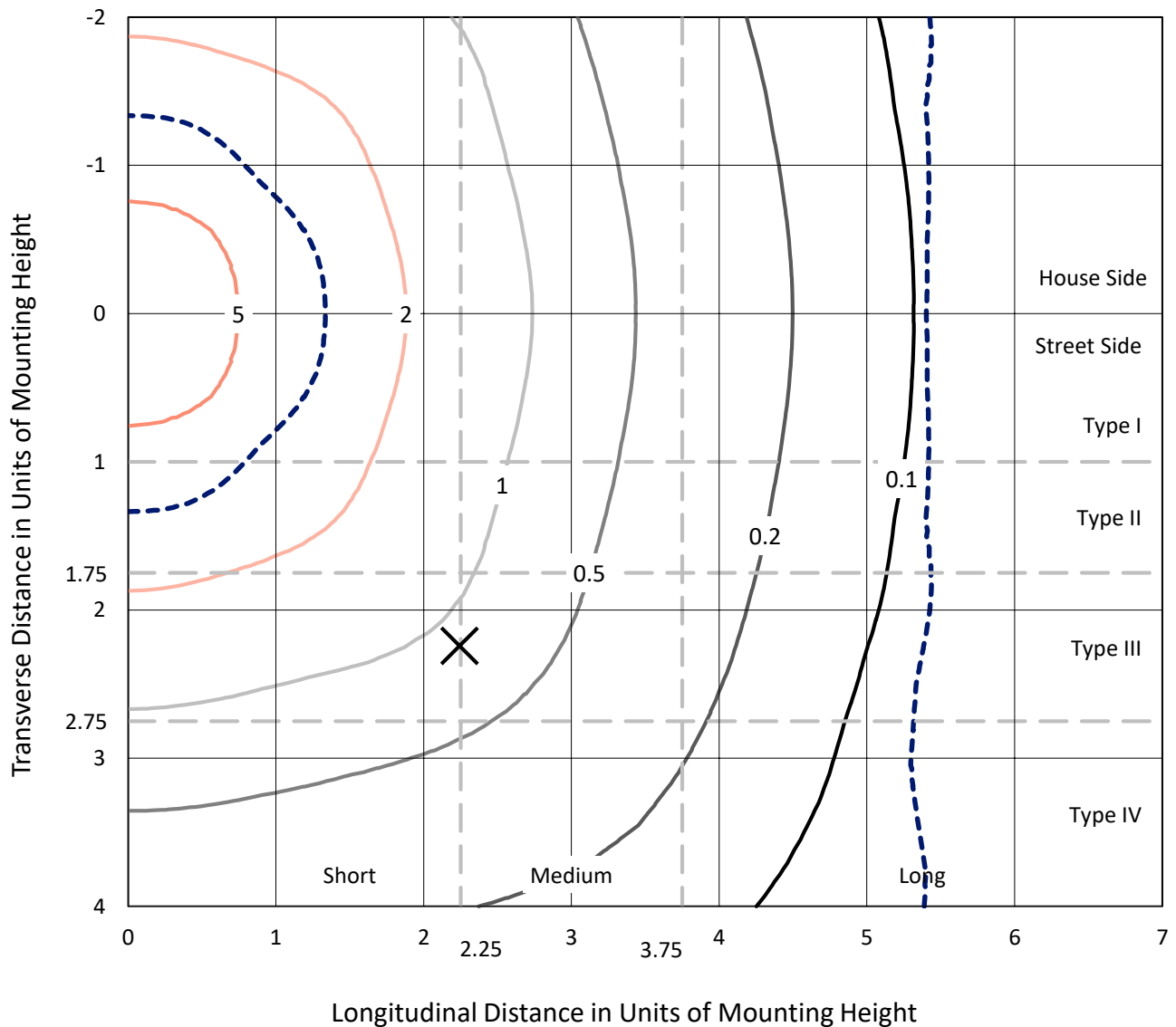
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

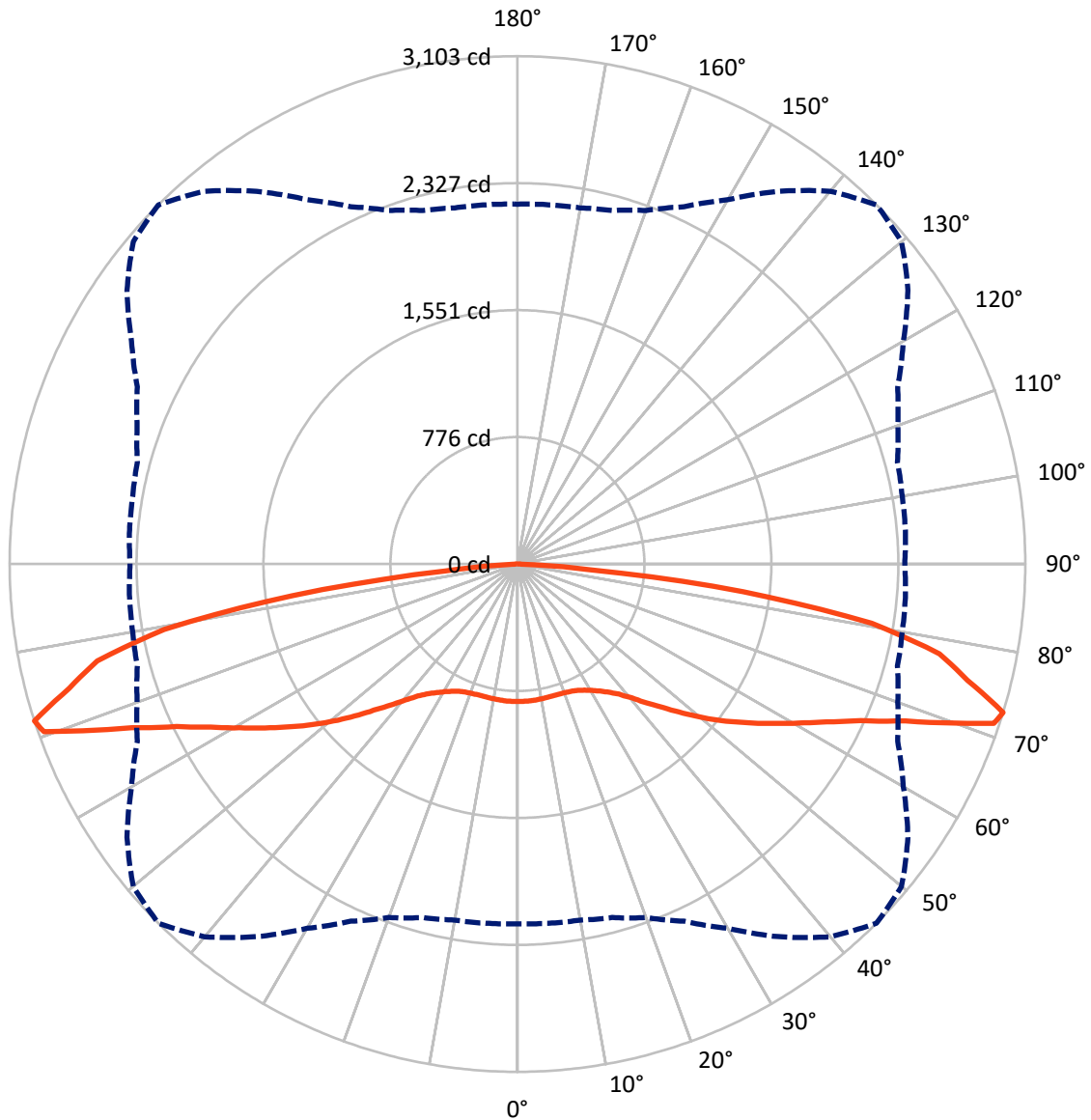
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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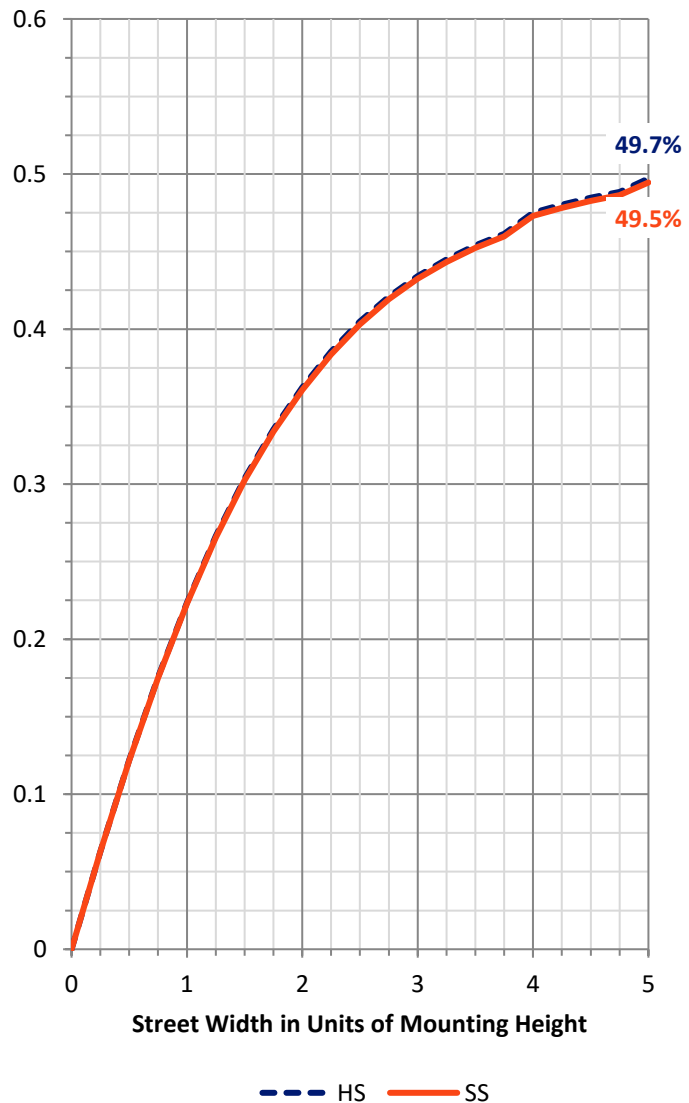
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4431.8	0.0	4431.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4431.8	0.0	4431.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	8863.5	0.0	8863.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	0.9
10°-20°	236.8	2.7
20°-30°	396.5	4.5
30°-40°	604.4	6.8
40°-50°	965.1	10.9
50°-60°	1483.9	16.7
60°-70°	2160.6	24.4
70°-80°	2433.9	27.5
80°-90°	502.4	5.7
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°	8863.5	100.0
0°-180°	8863.5	100.0

Coefficient of Utilization



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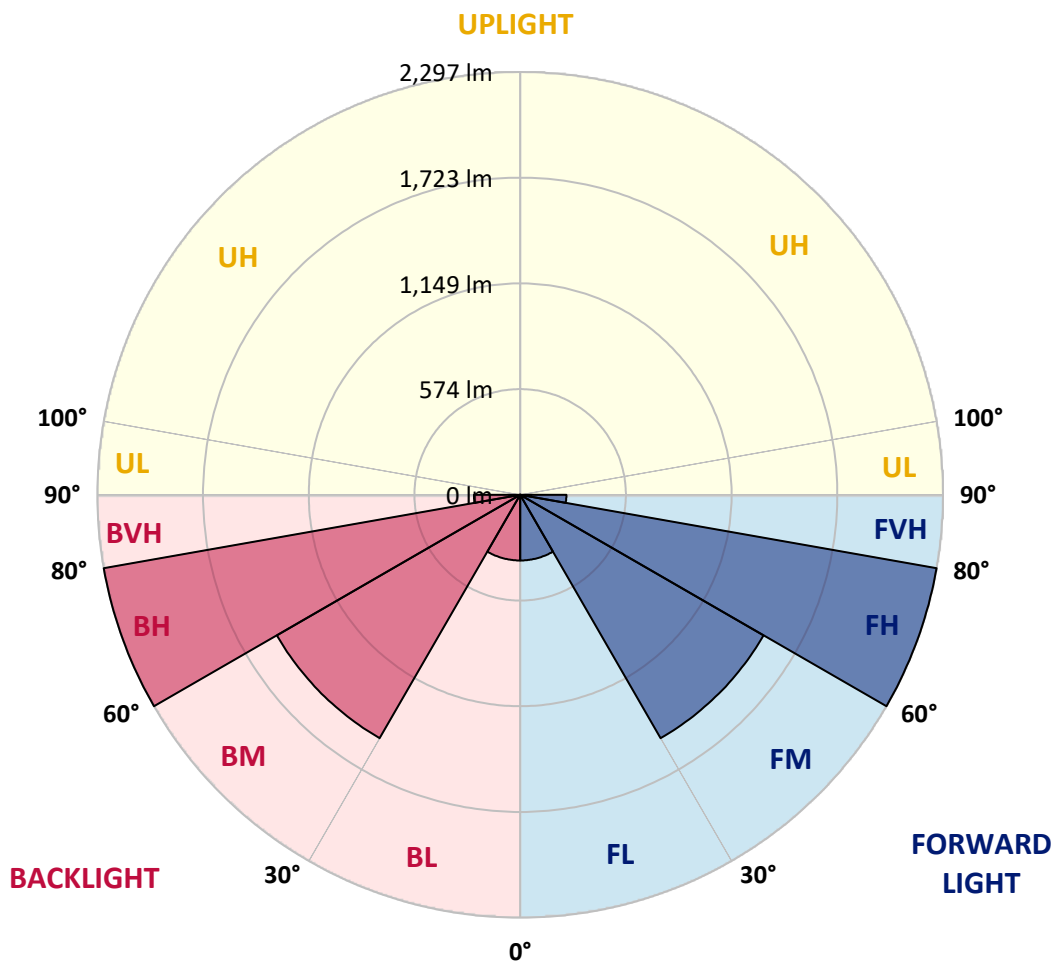
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.6	4.0			
FM	(30°-60°)	1526.7	17.2			
FH	(60°-80°)	2297.2	25.9			G2/5000
FVH	(80°-90°)	251.2	2.8			G3/500
BL	(0°-30°)	356.6	4.0	B1/500		
BM	(30°-60°)	1526.7	17.2	B2/2500		
BH	(60°-80°)	2297.2	25.9	B3/2500		G2/5000
BVH	(80°-90°)	251.2	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8
2.5°	841.2	841.6	841.4	841.0	841.2	841.0	840.5	840.3	838.6	839.6	841.0
5°	841.2	840.8	840.5	840.3	840.3	841.0	840.3	839.6	839.4	839.8	839.1
7.5°	840.7	839.8	839.3	839.1	839.3	839.6	838.9	838.0	838.6	837.9	837.0
10°	839.4	838.6	838.8	838.0	838.2	838.0	837.0	836.3	836.8	836.1	834.9
12.5°	839.8	838.6	838.4	838.0	837.7	837.5	836.4	835.2	835.4	834.9	833.8
15°	839.8	839.1	838.8	838.0	837.7	837.2	835.9	835.4	835.4	834.7	833.3
17.5°	840.2	839.8	839.8	838.6	838.2	837.9	836.3	835.6	836.3	835.0	834.0
20°	841.7	841.2	841.4	840.7	839.8	839.8	838.6	838.2	838.4	838.2	835.6
22.5°	844.4	844.4	844.9	844.7	844.4	844.7	843.8	843.8	844.0	844.0	841.9
25°	852.4	852.1	852.6	852.6	852.8	854.4	853.7	853.5	854.7	854.6	852.6
27.5°	867.2	866.7	867.2	867.7	868.8	870.9	870.4	871.1	873.0	872.6	870.7
30°	884.4	883.9	885.1	886.5	887.4	890.6	889.2	892.8	894.4	895.8	894.4
32.5°	909.4	909.5	911.6	912.5	914.6	917.8	918.3	921.1	923.2	925.5	923.9
35°	942.9	942.4	944.1	945.7	948.3	951.3	952.4	956.2	959.4	961.0	958.0
37.5°	994.0	991.4	994.4	995.4	997.5	998.2	1001.4	1006.1	1009.6	1009.1	1007.0
40°	1063.2	1062.8	1061.6	1060.2	1063.4	1064.6	1064.6	1070.9	1076.4	1075.5	1075.3
42.5°	1144.0	1142.0	1140.6	1140.6	1142.4	1142.8	1150.1	1154.7	1158.7	1159.6	1158.7
45°	1230.8	1228.8	1229.3	1228.4	1229.0	1232.1	1236.2	1244.8	1252.2	1252.5	1248.5
47.5°	1324.2	1317.8	1322.9	1315.7	1320.1	1322.4	1332.8	1345.4	1358.4	1360.7	1357.2
50°	1419.0	1418.3	1417.8	1416.5	1418.6	1423.7	1436.4	1456.2	1468.7	1477.1	1471.5
52.5°	1522.6	1519.1	1517.5	1515.1	1517.2	1527.2	1545.1	1562.3	1584.8	1594.4	1586.7
55°	1623.4	1622.2	1616.2	1616.0	1620.4	1635.9	1655.4	1676.6	1701.0	1711.6	1708.8
57.5°	1727.0	1720.2	1718.4	1715.6	1724.4	1739.0	1763.0	1801.1	1826.4	1838.4	1831.5
60°	1828.2	1823.2	1819.2	1818.2	1824.3	1844.7	1879.1	1924.8	1956.2	1972.0	1960.8
62.5°	1937.0	1933.7	1929.0	1923.7	1936.4	1962.7	2005.4	2056.1	2102.3	2121.8	2104.9
65°	2072.0	2065.4	2060.2	2053.5	2064.0	2097.0	2150.6	2221.9	2283.9	2306.7	2294.6
67.5°	2214.7	2208.4	2208.9	2204.7	2223.3	2269.0	2338.2	2435.1	2518.2	2557.0	2534.2
70°	2339.1	2342.6	2343.6	2360.5	2392.6	2462.2	2577.4	2729.1	2855.2	2914.4	2890.1
71°	2302.4	2310.1	2322.0	2339.6	2394.9	2477.4	2634.6	2818.3	2968.8	3069.1	3035.4
72.5°	2198.4	2203.1	2209.1	2236.0	2298.6	2407.7	2569.5	2779.5	2973.0	3102.8	3063.8
75°	2048.0	2052.4	2054.5	2073.2	2130.2	2225.4	2373.5	2559.8	2730.5	2841.0	2830.2
77.5°	1820.8	1821.5	1837.8	1866.8	1930.6	2039.6	2195.6	2388.9	2549.4	2635.3	2580.7
80°	1307.6	1298.7	1315.4	1352.8	1431.8	1556.8	1716.5	1937.2	2115.3	2195.6	2111.1
82.5°	497.5	524.4	566.9	628.7	655.4	794.3	943.4	1073.0	1223.0	1390.7	1348.6
85°	53.4	60.2	75.5	93.6	118.2	163.5	226.0	308.4	380.2	446.9	396.7
87.5°	20.0	20.4	22.8	26.2	26.7	27.9	29.7	34.6	32.3	27.9	22.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	839.8	839.8	839.8	839.8	839.8	839.8	839.8	839.8
2.5°	839.8	840.0	839.8	840.0	840.0	839.1	839.3	838.8
5°	839.6	838.8	839.1	839.3	839.1	839.6	838.9	839.4
7.5°	838.4	837.0	837.5	837.5	837.0	837.7	837.2	837.0
10°	836.1	834.2	835.1	834.7	834.5	834.7	834.7	834.7
12.5°	834.0	832.8	833.0	832.8	832.6	833.3	833.1	833.3
15°	833.5	831.7	831.4	831.0	831.2	831.7	831.7	832.4
17.5°	833.1	830.8	830.5	830.0	830.3	831.2	831.4	831.0
20°	834.5	832.6	832.2	831.7	831.4	832.6	832.4	832.4
22.5°	841.0	838.6	838.4	836.6	835.9	836.6	836.1	836.1
25°	851.4	848.6	847.7	845.2	843.3	843.3	842.6	842.1
27.5°	870.2	866.0	865.1	863.0	860.4	860.9	859.5	859.3
30°	892.0	888.3	885.1	882.1	879.0	877.9	876.2	876.0
32.5°	920.6	916.4	912.4	908.8	904.6	903.0	900.2	898.8
35°	955.7	950.1	945.5	942.9	938.7	936.6	934.8	936.9
37.5°	1004.7	998.0	995.6	992.6	989.8	986.6	987.3	986.6
40°	1072.5	1066.5	1064.2	1058.8	1058.1	1054.4	1056.7	1054.4
42.5°	1156.4	1145.2	1143.6	1139.4	1138.0	1135.9	1136.8	1135.2
45°	1247.6	1237.6	1235.8	1229.0	1229.2	1224.4	1226.2	1226.2
47.5°	1350.3	1339.8	1331.2	1326.4	1324.5	1321.5	1323.1	1322.9
50°	1456.2	1442.0	1432.5	1423.0	1418.8	1420.0	1416.7	1422.3
52.5°	1570.0	1548.8	1535.4	1526.3	1518.4	1520.0	1520.5	1522.2
55°	1687.7	1660.8	1641.3	1629.4	1622.2	1622.7	1624.8	1626.6
57.5°	1806.2	1772.5	1746.0	1728.4	1723.7	1725.8	1725.8	1725.6
60°	1929.0	1888.6	1854.5	1834.5	1830.3	1829.2	1838.2	1835.2
62.5°	2060.9	2012.4	1977.1	1951.6	1945.5	1949.7	1957.8	1956.0
65°	2235.8	2168.7	2123.2	2097.9	2087.6	2091.8	2102.8	2102.2
67.5°	2461.4	2367.5	2307.3	2274.9	2267.4	2272.5	2278.6	2284.4
70°	2798.6	2664.6	2578.6	2508.2	2478.0	2472.2	2478.3	2478.6
71°	2917.2	2763.2	2626.5	2540.6	2491.1	2470.2	2471.8	2461.4
72.5°	2912.4	2722.6	2562.6	2472.7	2404.0	2387.2	2379.1	2366.6
75°	2716.1	2545.2	2406.3	2308.3	2242.1	2222.4	2208.0	2207.2
77.5°	2463.2	2337.0	2184.0	2080.2	1999.6	1966.9	1952.2	1951.8
80°	1980.1	1791.3	1679.4	1616.9	1519.6	1491.5	1461.8	1450.6
82.5°	1197.4	935.7	760.8	676.1	629.2	518.1	465.0	439.8
85°	279.0	198.1	136.6	89.6	64.6	51.3	39.5	34.8
87.5°	18.8	14.9	13.2	10.7	8.1	7.9	4.9	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)