

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: INVUE

Report Number: P180143

Luminaire Tested: **ICS-F03-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180143
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-5WQ
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7096.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 78.3
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

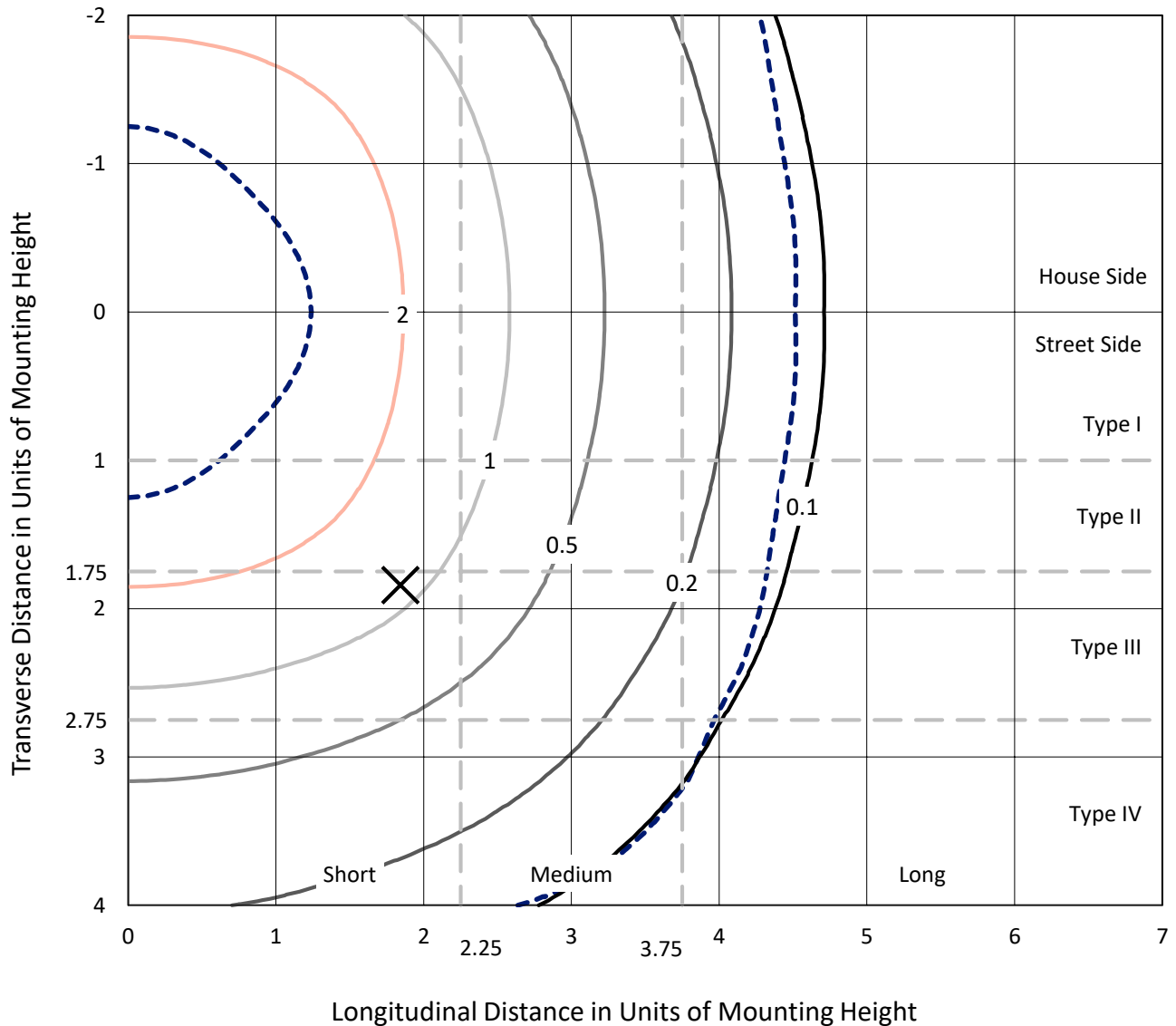


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Iso-Footcandle Lines of Horizontal Illumination

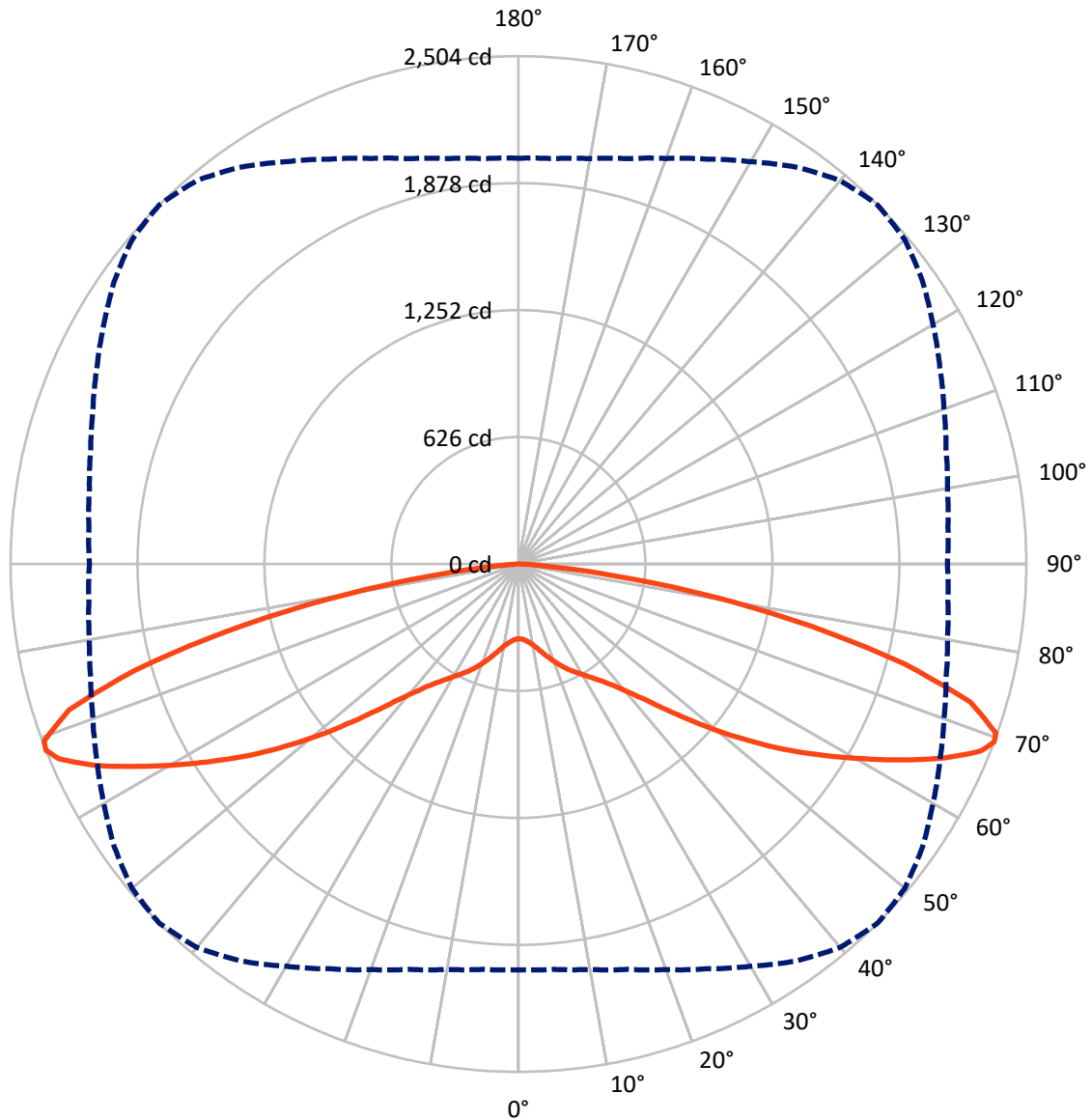
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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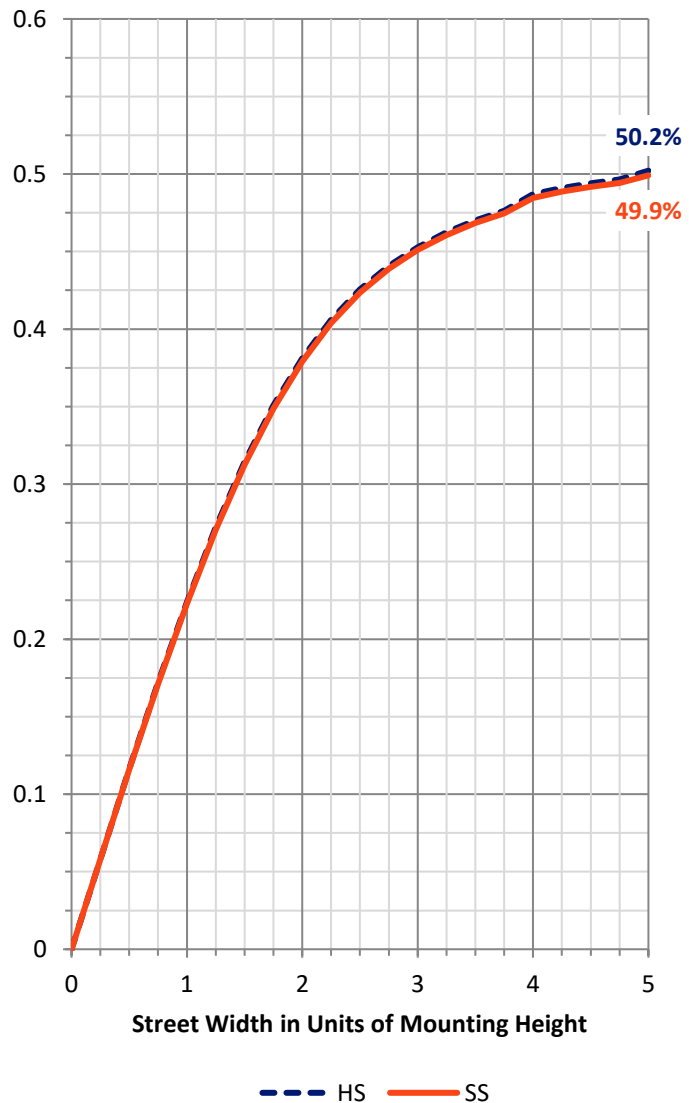
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3548.4	0.0	3548.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3548.4	0.0	3548.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7096.8	0.0	7096.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	0.5
10°-20°	130.7	1.8
20°-30°	264.6	3.7
30°-40°	443.6	6.3
40°-50°	782.5	11.0
50°-60°	1379.9	19.4
60°-70°	2106.8	29.7
70°-80°	1760.4	24.8
80°-90°	191.3	2.7
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°	7096.8	100.0
0°-180°	7096.8	100.0



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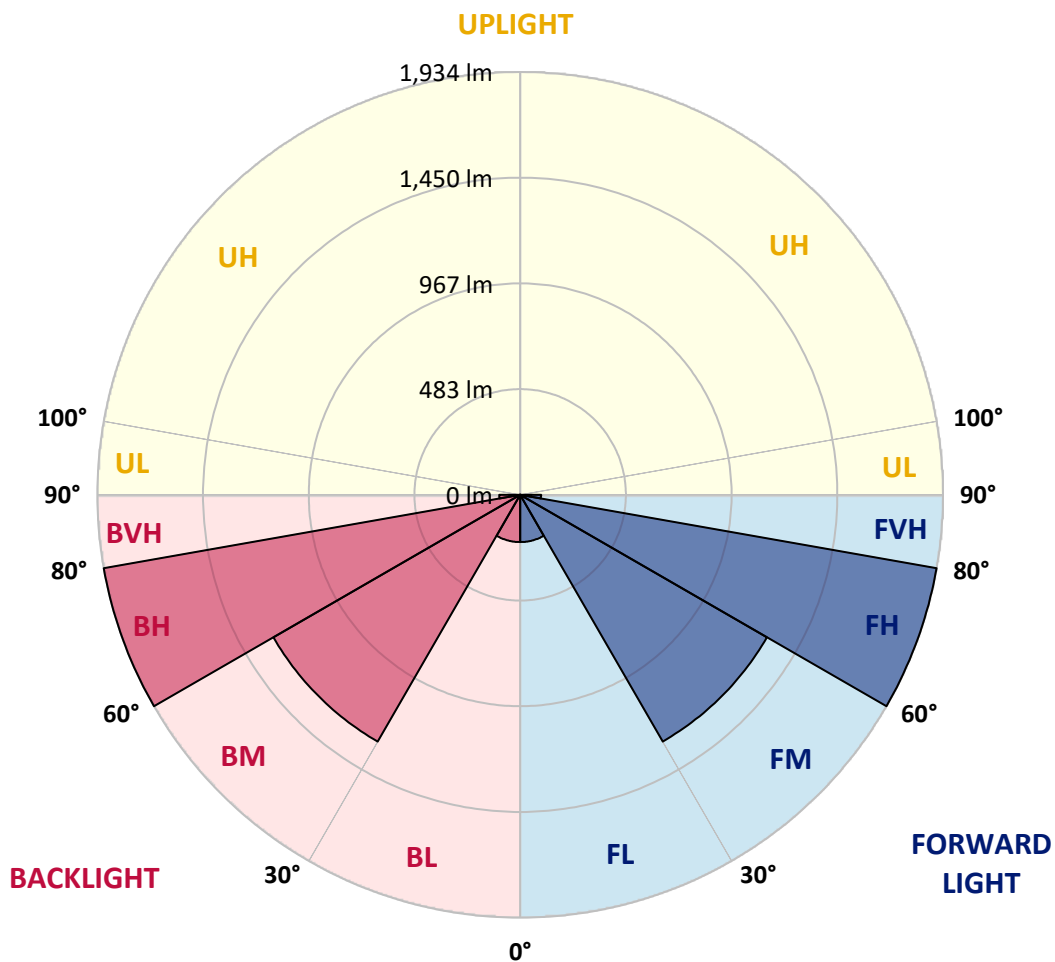
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.1	3.0			
FM (30°-60°)	1303.0	18.4			
FH (60°-80°)	1933.6	27.2			G2/5000
FVH (80°-90°)	95.6	1.3			G1/100
BL (0°-30°)	216.1	3.0	B1/500		
BM (30°-60°)	1303.0	18.4	B2/2500		
BH (60°-80°)	1933.6	27.2	B3/2500		G2/5000
BVH (80°-90°)	95.6	1.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5
2.5°	371.5	372.2	371.5	371.5	371.5	371.5	371.5	370.8	370.8	370.8	371.5
5°	378.9	379.7	378.9	379.7	379.7	379.7	379.7	378.9	378.9	378.9	378.9
7.5°	390.8	390.8	390.8	391.6	390.8	390.8	391.6	390.8	390.8	390.8	390.8
10°	407.9	407.2	407.2	407.2	407.2	407.2	407.9	407.9	407.9	407.2	407.2
12.5°	428.7	428.0	428.7	428.7	429.5	429.5	429.5	429.5	429.5	429.5	428.7
15°	454.0	454.0	454.0	454.7	456.2	456.2	455.5	456.2	456.2	456.2	456.2
17.5°	482.2	483.7	482.2	483.0	483.7	483.0	484.4	485.2	485.9	485.2	483.0
20°	511.2	511.9	511.9	511.9	511.9	513.4	514.2	514.2	516.4	515.7	514.9
22.5°	538.7	540.2	540.2	540.9	540.9	543.1	543.1	543.1	544.6	546.1	544.6
25°	567.7	566.9	566.9	568.4	569.1	572.1	572.1	573.6	575.8	576.6	575.1
27.5°	593.7	592.9	592.9	595.2	595.9	599.6	599.6	602.6	604.1	604.8	603.3
30°	621.2	621.2	620.4	622.6	624.9	627.8	629.3	632.3	634.5	635.3	633.8
32.5°	653.9	652.4	653.1	654.6	656.1	659.1	661.3	665.0	668.0	668.7	667.2
35°	691.0	688.8	689.5	691.0	693.2	697.7	701.4	703.6	708.1	709.6	706.6
37.5°	731.9	732.6	731.9	735.6	739.3	744.5	749.0	751.9	756.4	758.6	756.4
40°	789.8	787.6	789.8	793.5	799.5	806.2	815.1	817.3	821.8	826.2	821.0
42.5°	864.9	863.4	868.6	871.6	878.2	885.7	896.8	902.8	909.4	912.4	908.0
45°	962.9	962.9	968.9	969.6	980.0	989.7	1005.3	1012.7	1025.4	1025.4	1025.4
47.5°	1071.4	1075.9	1079.6	1087.0	1094.5	1112.3	1127.9	1144.2	1156.1	1157.6	1155.4
50°	1183.6	1188.1	1199.2	1209.6	1226.0	1248.3	1265.4	1286.9	1297.3	1306.2	1303.2
52.5°	1307.7	1308.4	1321.8	1335.2	1359.0	1383.5	1411.0	1433.3	1451.8	1460.0	1453.3
55°	1443.7	1445.2	1457.0	1471.2	1497.9	1526.1	1560.3	1583.4	1607.1	1622.0	1610.9
57.5°	1590.8	1591.5	1603.4	1620.5	1652.5	1680.7	1713.4	1746.1	1768.4	1781.7	1774.3
60°	1753.5	1757.2	1766.1	1787.7	1818.2	1847.9	1880.6	1909.5	1935.5	1949.7	1942.2
62.5°	1927.4	1931.1	1943.7	1960.8	1987.6	2020.3	2051.5	2088.6	2110.2	2125.8	2114.6
65°	2044.0	2050.7	2070.8	2093.8	2133.2	2175.5	2211.9	2262.5	2288.5	2307.1	2296.7
67.5°	2051.5	2055.2	2079.7	2114.6	2167.4	2231.3	2305.6	2384.3	2435.6	2460.1	2442.3
69°	2000.9	2006.1	2029.9	2069.3	2128.0	2202.3	2290.7	2388.8	2467.5	2504.0	2486.9
70°	1943.7	1954.9	1980.9	2024.0	2081.2	2159.2	2250.6	2355.4	2447.5	2497.3	2484.6
72.5°	1823.4	1826.3	1843.4	1877.6	1921.4	1986.1	2072.3	2171.1	2258.8	2330.1	2340.5
75°	1618.3	1627.9	1640.6	1663.6	1685.9	1732.7	1790.7	1858.3	1909.5	1964.5	1966.8
77.5°	1223.0	1252.0	1261.6	1266.8	1276.5	1313.6	1364.2	1422.9	1465.2	1474.1	1472.7
80°	549.1	587.7	596.6	639.0	665.0	726.7	803.9	893.8	954.0	960.7	944.4
82.5°	107.7	115.2	134.5	167.9	228.8	265.3	315.8	378.9	436.9	470.3	450.3
85°	35.7	37.9	43.8	48.3	55.7	63.2	76.5	95.1	118.1	130.8	116.7
87.5°	14.1	14.1	16.3	17.8	19.3	19.3	19.3	17.8	17.1	14.1	12.6
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°	368.5	368.5	368.5	368.5	368.5	368.5	368.5	368.5
2.5°	370.8	370.8	370.8	370.8	370.8	370.8	370.8	370.8
5°	378.9	378.2	378.2	377.5	377.5	377.5	377.5	377.5
7.5°	390.1	389.3	388.6	389.3	388.6	388.6	388.6	388.6
10°	407.2	405.7	404.9	404.2	404.2	404.2	403.5	403.5
12.5°	427.2	427.2	426.5	425.7	424.3	425.0	424.3	422.8
15°	454.7	453.2	452.5	451.8	450.3	450.3	450.3	449.5
17.5°	482.2	480.7	480.7	478.5	477.8	477.8	477.8	478.5
20°	512.7	510.4	509.0	507.5	506.0	506.7	505.2	506.7
22.5°	543.1	540.2	538.7	536.5	534.2	534.2	533.5	532.0
25°	572.9	569.1	567.7	565.4	562.5	562.5	561.0	559.5
27.5°	601.1	597.4	595.9	591.4	588.5	587.7	586.2	585.5
30°	632.3	627.8	625.6	621.2	616.7	616.0	613.7	613.7
32.5°	665.0	660.5	659.1	652.4	648.7	648.7	647.2	645.7
35°	705.9	699.2	697.7	691.0	685.8	685.8	684.3	685.1
37.5°	754.2	749.0	743.8	738.6	732.6	731.9	730.4	728.9
40°	818.8	812.9	806.9	799.5	794.3	792.8	790.6	789.8
42.5°	905.0	899.0	887.2	881.2	876.0	871.6	870.8	870.1
45°	1015.0	1007.5	999.4	988.2	981.5	971.9	970.4	966.7
47.5°	1147.2	1133.1	1119.0	1109.3	1098.9	1087.8	1085.5	1079.6
50°	1287.6	1276.5	1252.7	1237.1	1220.8	1209.6	1202.2	1200.0
52.5°	1438.5	1417.7	1393.9	1373.1	1349.3	1334.5	1321.1	1317.4
55°	1596.0	1566.3	1536.6	1512.0	1488.3	1470.4	1457.8	1451.8
57.5°	1753.5	1720.8	1688.1	1661.4	1641.3	1618.3	1605.7	1602.7
60°	1917.7	1886.5	1853.1	1826.3	1801.8	1781.7	1774.3	1760.2
62.5°	2091.6	2058.9	2027.7	2001.7	1970.5	1956.4	1943.7	1935.5
65°	2262.5	2224.6	2185.2	2157.7	2126.5	2106.4	2090.8	2079.7
67.5°	2394.7	2337.5	2284.8	2238.7	2196.3	2165.1	2145.1	2134.7
69°	2431.9	2360.6	2292.9	2232.8	2183.0	2148.1	2125.8	2115.4
70°	2427.4	2348.7	2274.4	2208.2	2154.0	2116.8	2095.3	2076.0
72.5°	2290.0	2217.9	2135.4	2063.3	2014.3	1978.6	1957.1	1946.7
75°	1954.1	1905.8	1846.4	1790.7	1755.0	1734.2	1707.4	1708.2
77.5°	1422.9	1424.4	1384.2	1327.0	1286.9	1279.5	1267.6	1255.7
80°	882.7	812.1	766.0	704.4	659.1	619.7	602.6	565.4
82.5°	407.2	318.0	246.7	186.5	143.4	112.2	98.1	80.2
85°	90.6	69.1	57.2	46.1	39.4	36.4	29.7	27.5
87.5°	12.6	11.1	10.4	9.7	8.2	5.9	4.5	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)