

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: P180033

Luminaire Tested: **ICS-F02-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180033
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F02-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4790.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

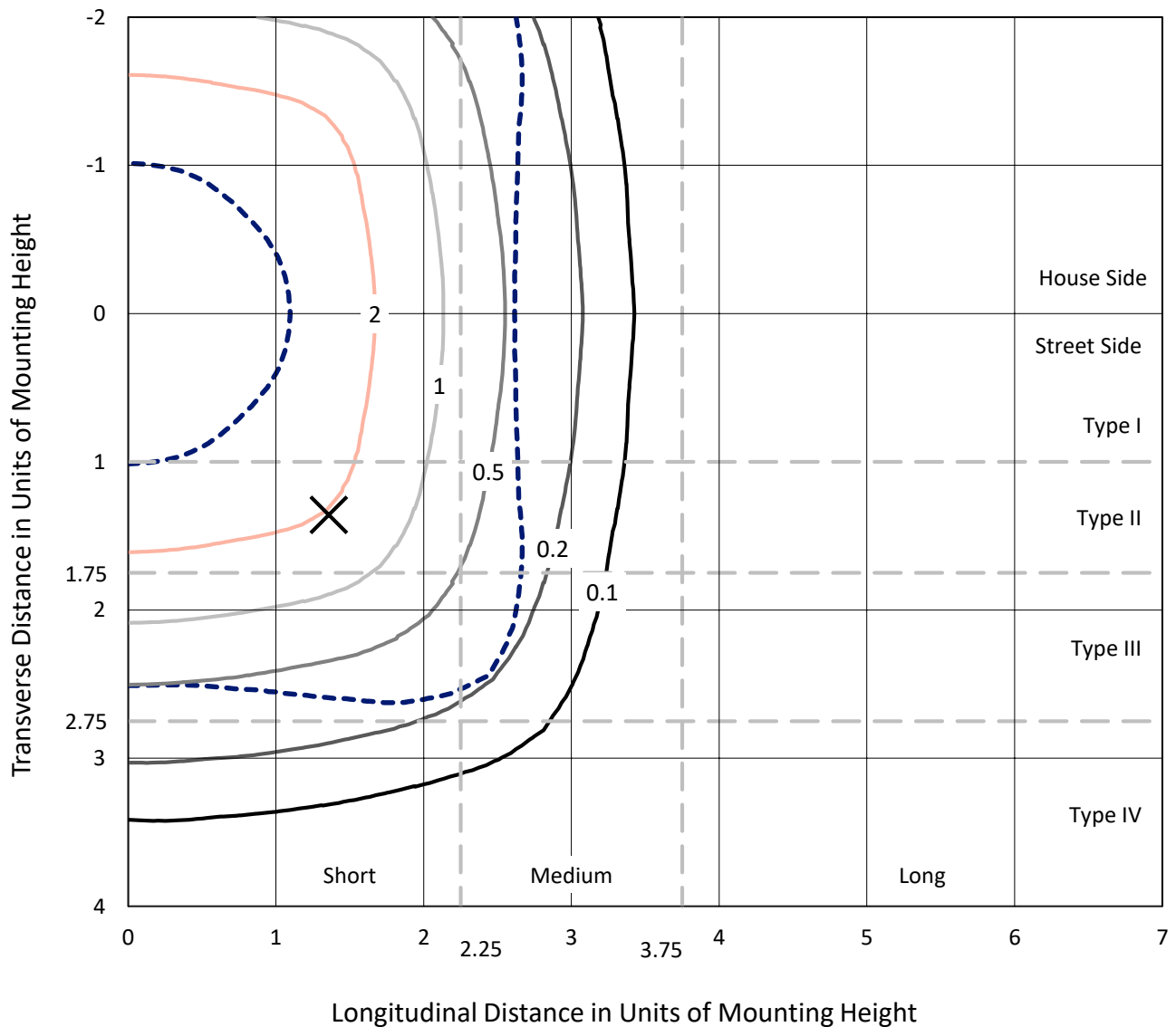
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

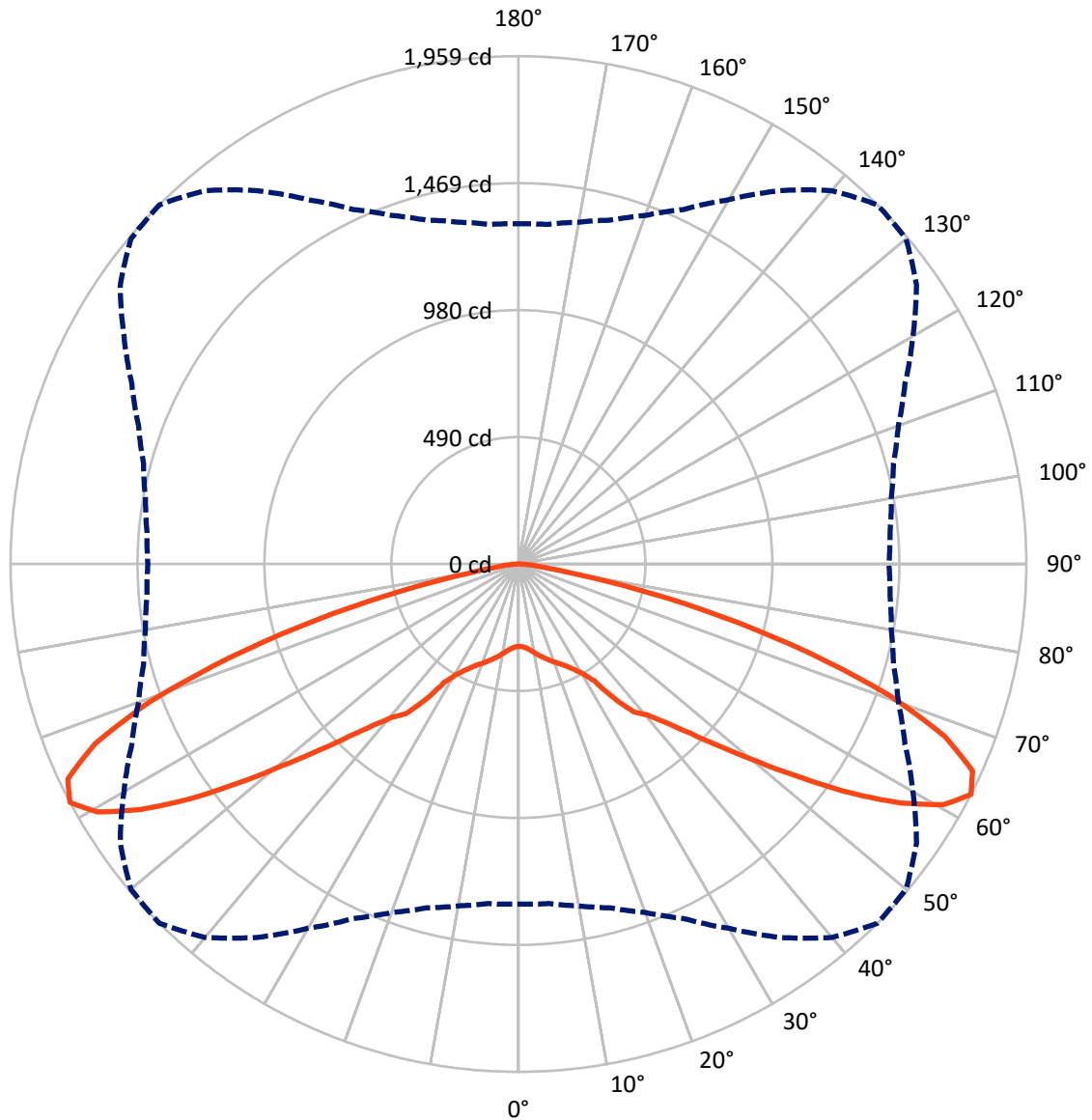
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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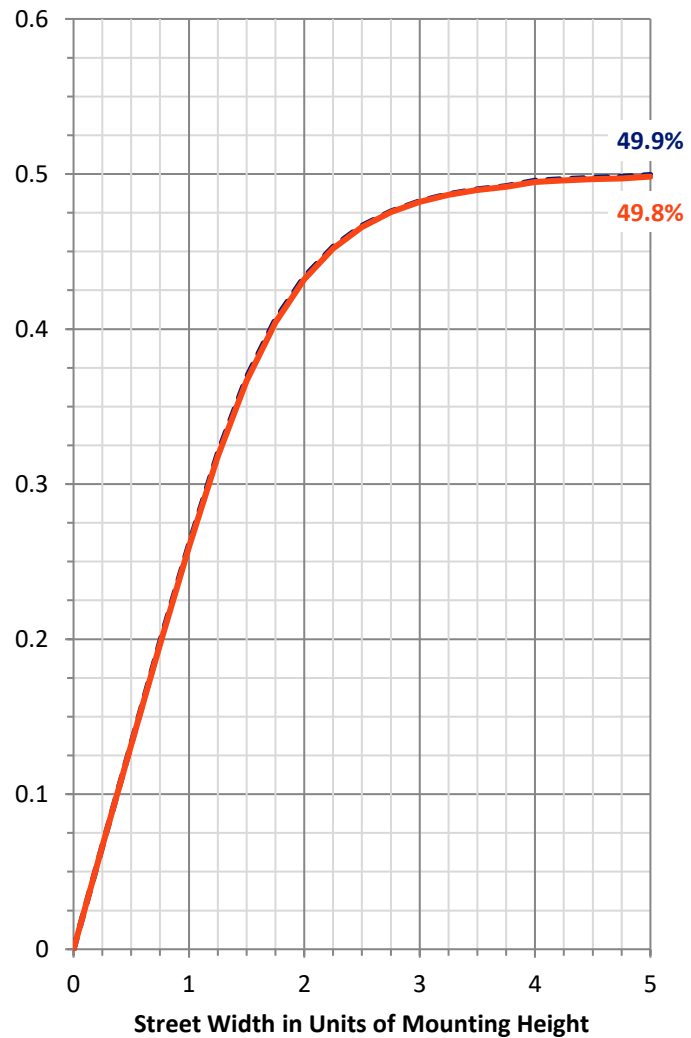
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.3	0.0	2395.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2395.3	0.0	2395.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4790.6	0.0	4790.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.7
10°-20°	107.7	2.2
20°-30°	208.3	4.3
30°-40°	403.3	8.4
40°-50°	728.2	15.2
50°-60°	1266.2	26.4
60°-70°	1437.5	30.0
70°-80°	557.3	11.6
80°-90°	50.3	1.0
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°	4790.6	100.0
0°-180°	4790.6	100.0



--- HS — SS

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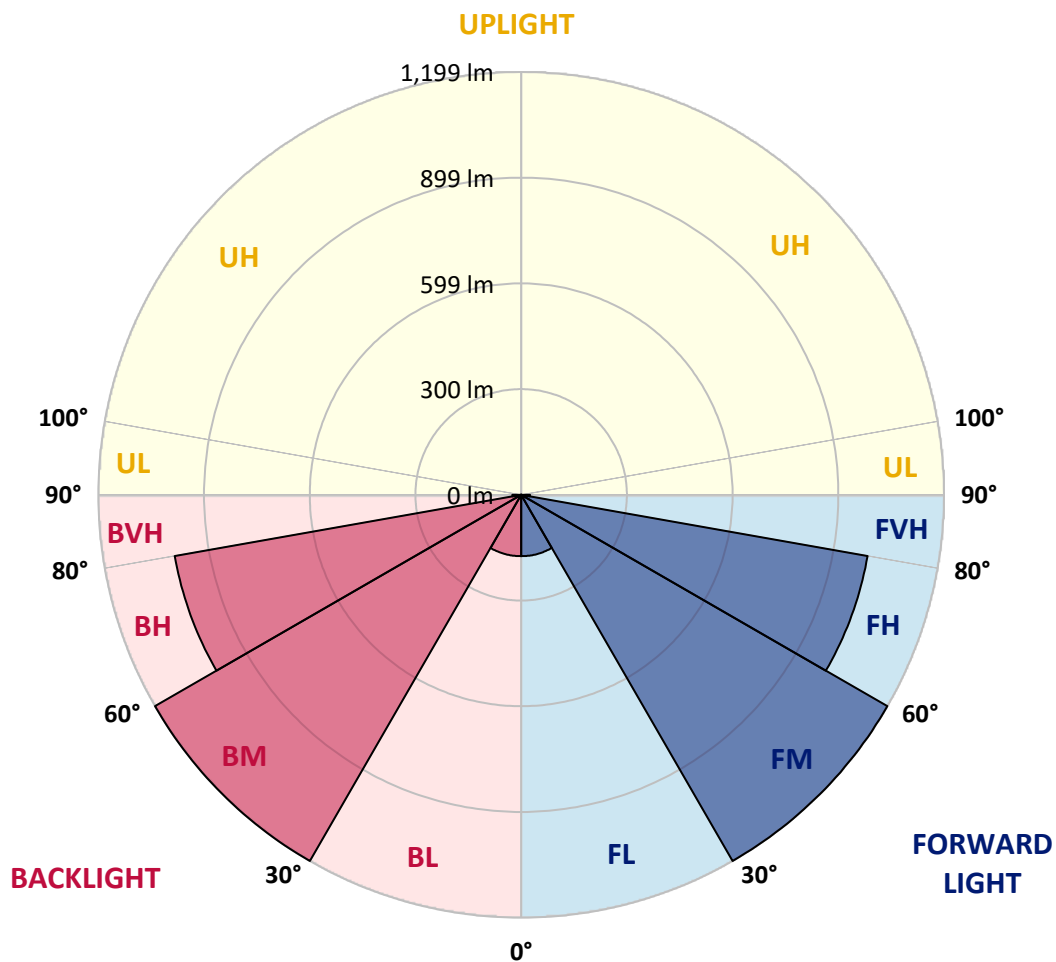
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.9	3.6			
FM (30°-60°)	1198.8	25.0			
FH (60°-80°)	997.4	20.8			G1/1800
FVH (80°-90°)	25.1	0.5			G1/100
BL (0°-30°)	173.9	3.6	B1/500		
BM (30°-60°)	1198.8	25.0	B2/2500		
BH (60°-80°)	997.4	20.8	B2/1000		G1/1800
BVH (80°-90°)	25.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	320.0	321.0	320.8	320.2	320.2	320.2	320.0	319.2	319.0	319.5	320.0
5°	327.4	327.4	327.4	327.4	327.0	327.0	326.5	326.0	326.2	325.7	325.5
7.5°	338.8	338.0	338.0	337.8	337.8	337.3	336.6	335.6	335.8	335.6	335.4
10°	352.2	352.4	351.6	352.4	351.2	351.0	350.0	349.4	349.2	348.4	348.5
12.5°	368.3	367.6	367.6	367.0	366.6	366.0	364.6	364.4	363.4	362.8	362.1
15°	383.4	383.2	382.2	381.2	380.9	380.4	378.7	377.7	377.4	376.2	375.2
17.5°	398.5	398.0	396.8	396.3	395.3	394.5	393.0	391.5	390.8	390.4	389.1
20°	414.6	414.1	412.8	411.8	410.6	409.6	407.4	406.2	405.4	404.6	403.7
22.5°	434.6	433.7	431.7	430.0	427.2	426.2	423.2	421.5	420.3	419.3	418.8
25°	456.4	456.7	454.0	451.8	448.6	445.8	442.1	440.1	438.9	437.9	437.6
27.5°	483.7	484.0	481.5	478.2	473.3	470.3	465.4	462.9	462.2	461.2	460.9
30°	526.8	524.6	520.4	515.2	510.7	504.2	497.1	494.6	492.1	491.4	491.4
32.5°	606.0	604.8	601.4	588.4	582.5	569.2	556.5	549.4	541.2	537.2	534.8
35°	661.6	661.0	658.3	653.8	650.2	647.4	640.0	638.8	637.3	637.2	639.2
37.5°	702.4	699.4	699.0	699.6	698.7	699.2	705.2	713.3	720.2	723.7	723.2
40°	762.8	758.6	761.1	759.3	757.2	756.6	758.6	761.8	765.1	765.1	764.3
42.5°	841.8	843.8	844.8	837.6	832.9	831.7	836.4	835.4	838.6	837.4	834.2
45°	959.2	958.0	956.2	947.6	940.2	934.2	935.4	933.7	934.0	932.0	929.5
47.5°	1077.6	1081.8	1074.6	1070.4	1062.0	1057.8	1061.2	1058.3	1064.0	1053.6	1048.6
50°	1192.6	1195.5	1193.0	1187.0	1187.0	1193.1	1197.2	1202.7	1210.6	1198.7	1180.9
52.5°	1286.6	1289.2	1292.8	1297.8	1310.0	1322.6	1340.4	1359.4	1374.6	1372.3	1352.0
55°	1344.1	1347.1	1353.3	1370.4	1392.2	1425.4	1465.7	1510.0	1544.7	1561.6	1546.7
57.5°	1363.4	1365.6	1382.5	1403.0	1437.0	1486.2	1553.9	1630.4	1697.0	1739.4	1732.7
60°	1358.9	1359.0	1376.0	1404.2	1451.8	1517.2	1612.8	1718.8	1820.8	1884.3	1874.9
62.5°	1312.2	1314.6	1339.2	1373.1	1430.6	1508.8	1622.7	1758.2	1880.4	1959.1	1951.4
65°	1209.6	1211.4	1237.8	1278.2	1342.4	1435.0	1559.6	1709.6	1849.6	1925.4	1911.0
67.5°	1044.0	1045.6	1067.2	1112.8	1180.6	1277.4	1412.0	1577.1	1714.2	1774.0	1731.0
70°	830.4	835.4	849.2	897.6	949.0	1044.0	1167.8	1333.0	1462.2	1519.0	1471.4
72.5°	566.0	578.6	595.4	638.2	687.6	766.3	864.9	1004.0	1107.8	1173.5	1131.2
75°	318.8	336.6	341.8	374.2	414.8	477.0	549.1	648.9	753.6	806.9	755.9
77.5°	137.7	152.4	158.8	173.8	205.6	231.6	275.4	342.8	423.8	461.2	400.0
80°	67.9	71.3	74.0	78.8	87.7	96.1	116.9	146.4	179.5	188.0	149.6
82.5°	52.5	55.0	59.7	63.4	65.6	67.8	69.8	73.8	77.0	78.8	74.3
85°	37.0	40.1	45.3	49.5	52.0	53.8	55.5	56.8	53.8	49.0	51.5
87.5°	9.7	12.6	17.6	19.0	21.6	22.8	22.3	23.0	20.8	15.1	16.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0
2.5°	319.8	319.4	319.8	319.8	319.8	319.5	319.5	319.5
5°	325.4	325.4	325.7	325.2	325.2	325.4	325.2	324.9
7.5°	335.1	334.8	334.8	334.6	334.8	334.6	334.6	334.4
10°	348.0	347.5	347.7	347.0	347.0	346.8	346.8	346.7
12.5°	361.8	361.1	361.4	360.6	359.4	359.6	359.8	359.6
15°	375.2	374.5	373.8	373.2	372.5	372.8	372.8	372.5
17.5°	388.8	387.4	387.2	386.4	386.1	386.1	386.2	386.4
20°	403.0	402.0	401.7	401.0	400.8	401.5	401.7	401.2
22.5°	418.0	417.6	418.1	417.6	418.3	418.8	419.0	418.6
25°	437.1	436.6	437.4	439.2	440.1	440.6	441.8	441.3
27.5°	461.6	461.2	462.9	465.4	466.8	469.3	470.6	471.1
30°	493.4	495.6	496.6	501.6	502.6	506.5	506.5	508.2
32.5°	539.4	543.7	551.0	558.8	569.4	577.1	577.0	581.0
35°	640.5	642.2	648.0	649.2	651.4	653.8	651.3	653.4
37.5°	718.0	710.3	704.8	697.2	692.5	692.5	693.0	692.5
40°	757.6	754.7	752.2	745.8	744.8	744.5	744.5	745.5
42.5°	828.4	821.3	817.3	811.9	810.1	809.7	809.4	809.9
45°	920.6	909.0	898.3	892.8	888.2	883.7	885.2	885.2
47.5°	1027.8	1009.8	992.4	983.0	974.8	971.2	968.6	967.9
50°	1158.4	1133.1	1110.8	1093.2	1081.4	1081.0	1082.4	1074.4
52.5°	1318.4	1278.4	1250.8	1227.0	1215.8	1214.6	1210.6	1206.2
55°	1495.7	1448.4	1402.6	1377.1	1362.4	1354.5	1349.8	1342.4
57.5°	1678.4	1614.8	1548.9	1508.0	1482.3	1464.5	1455.1	1450.9
60°	1819.4	1732.4	1645.5	1579.9	1537.1	1510.6	1494.2	1487.5
62.5°	1874.9	1757.0	1645.6	1559.4	1497.4	1460.8	1438.7	1429.1
65°	1808.8	1669.0	1542.2	1447.2	1378.0	1337.2	1313.2	1302.7
67.5°	1624.0	1500.6	1362.6	1268.0	1197.0	1156.6	1130.6	1122.9
70°	1361.4	1235.4	1103.6	1019.2	955.8	922.8	895.8	892.6
72.5°	1023.1	914.4	801.4	731.7	680.6	626.1	612.2	619.2
75°	655.8	554.0	453.4	390.6	344.0	292.0	272.0	276.9
77.5°	310.6	240.5	173.6	134.2	112.7	96.4	92.1	89.7
80°	115.2	93.4	82.4	78.2	75.2	72.6	70.6	68.4
82.5°	74.6	72.8	70.6	69.8	67.6	64.2	57.8	55.0
85°	55.8	55.8	52.8	53.0	51.3	46.8	40.8	37.6
87.5°	16.4	14.6	13.4	12.4	12.2	10.9	7.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)