

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: P180188

Luminaire Tested: **ICM-E04-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180188
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11834 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

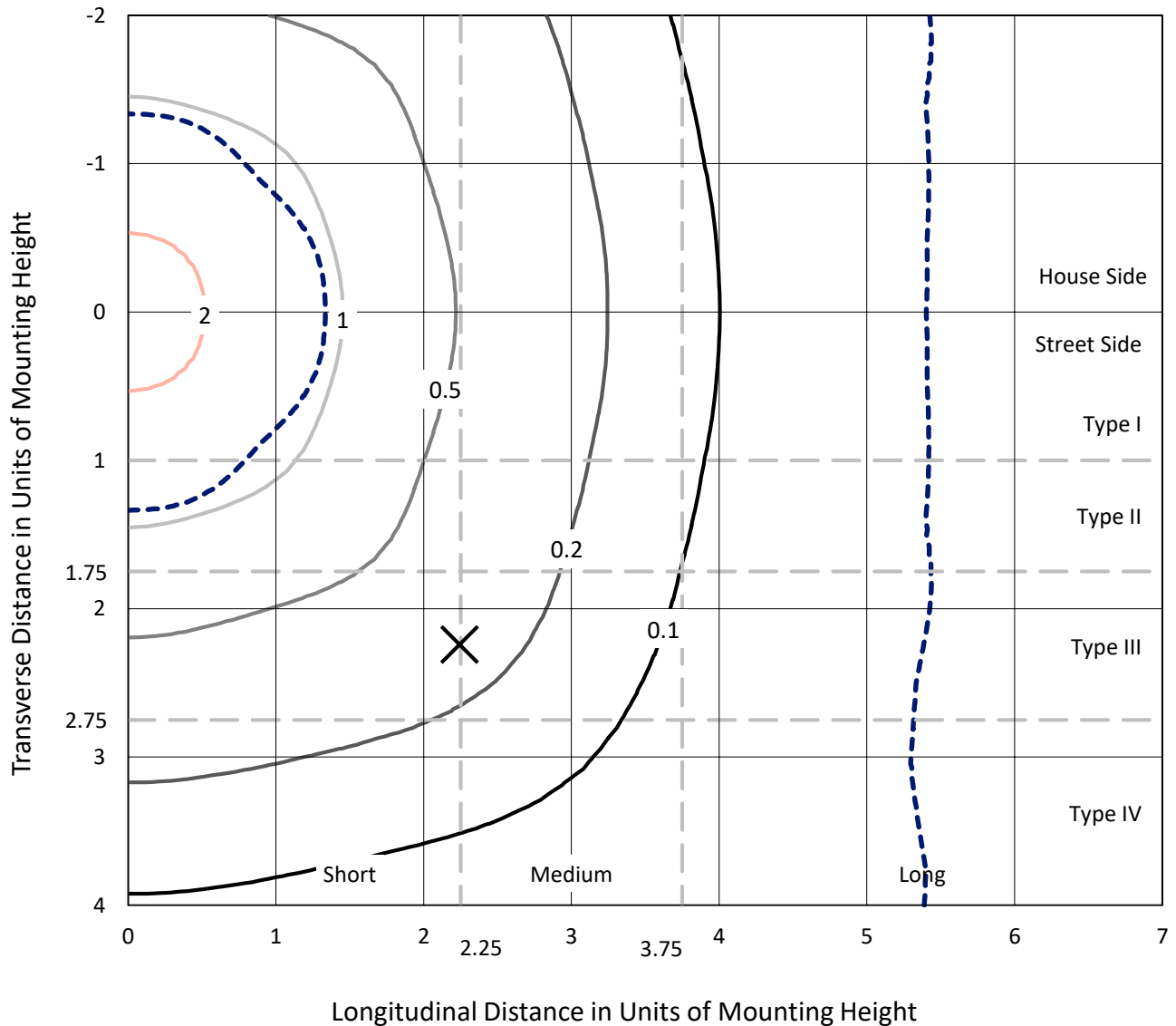
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180188
 CATALOG NUMBER: ICM-E04-LED-E1-5XQ

Iso-Footcandle Lines of Horizontal Illumination

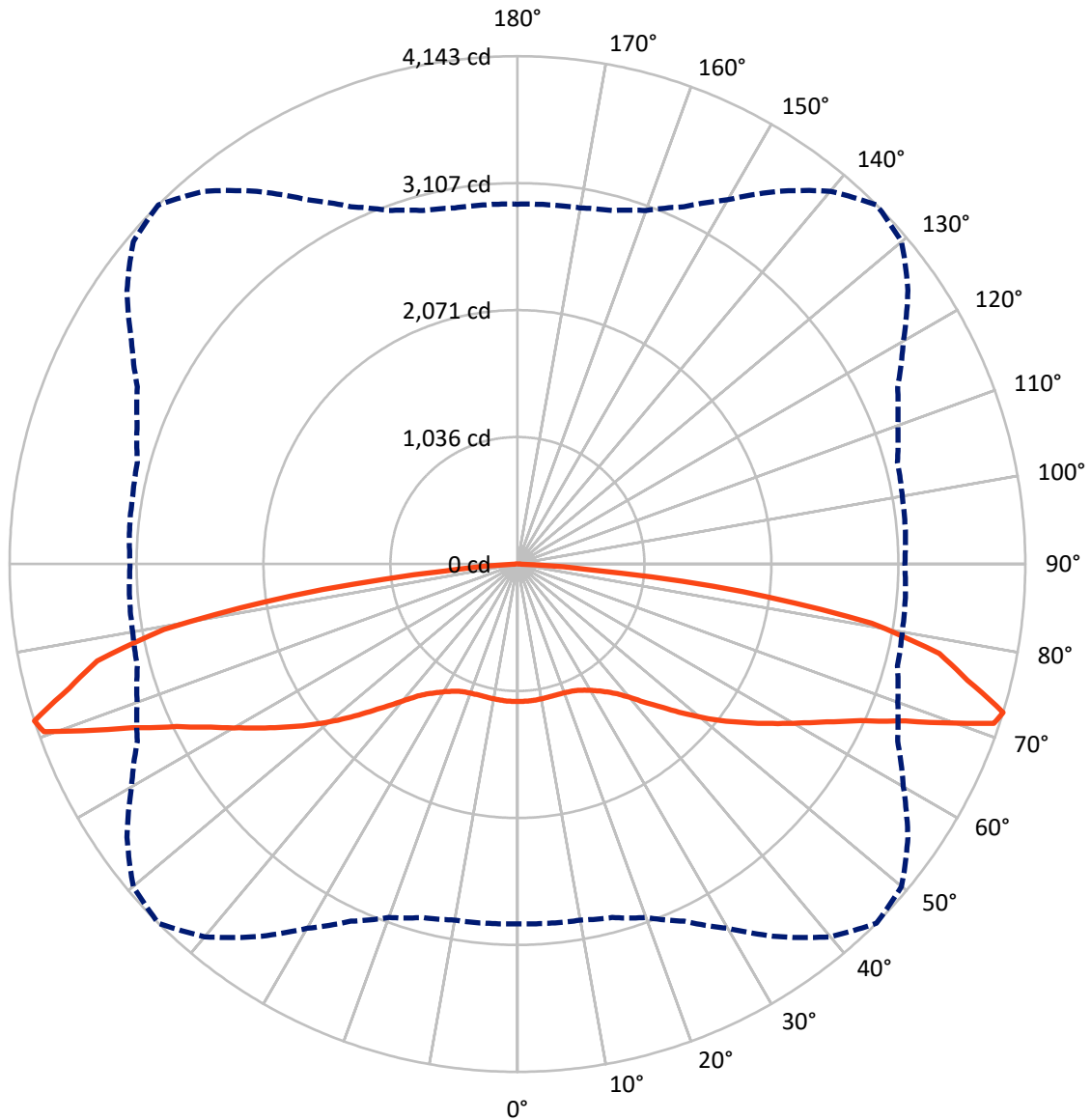
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P180188
CATALOG NUMBER: ICM-E04-LED-E1-5XQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180188

CATALOG NUMBER: ICM-E04-LED-E1-5XQ

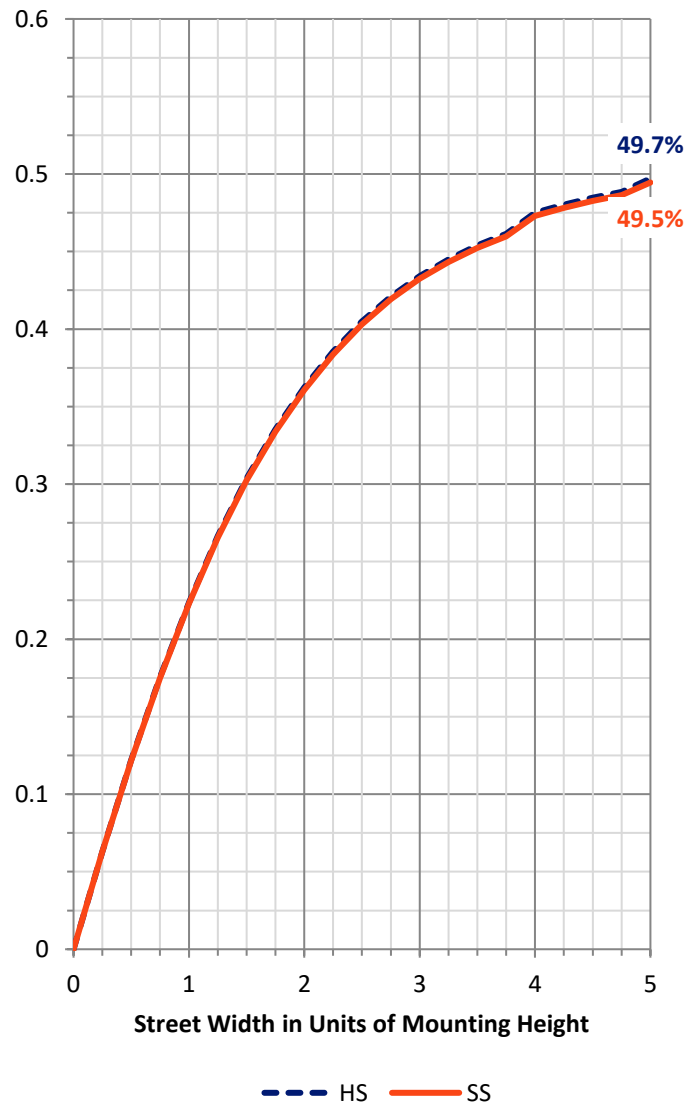
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5917.0	0.0	5917.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5917.0	0.0	5917.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11834.0	0.0	11834.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	0.9
10°-20°	316.1	2.7
20°-30°	529.3	4.5
30°-40°	807.0	6.8
40°-50°	1288.5	10.9
50°-60°	1981.2	16.7
60°-70°	2884.7	24.4
70°-80°	3249.6	27.5
80°-90°	670.8	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°	11834.0	100.0
0°-180°	11834.0	100.0



REPORT NUMBER: P180188

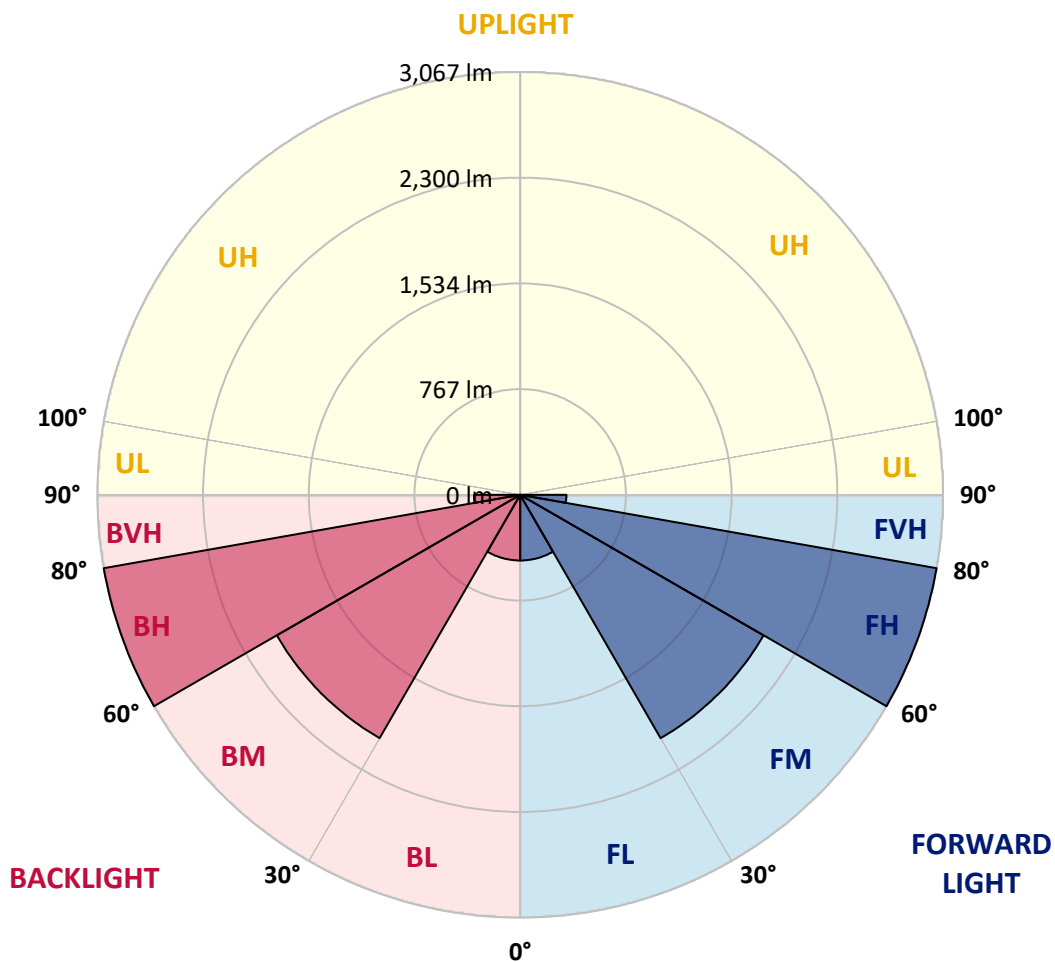
CATALOG NUMBER: ICM-E04-LED-E1-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.1	4.0			
FM	(30°-60°)	2038.3	17.2			
FH	(60°-80°)	3067.1	25.9			G2/5000
FVH	(80°-90°)	335.4	2.8			G3/500
BL	(0°-30°)	476.1	4.0	B1/500		
BM	(30°-60°)	2038.3	17.2	B2/2500		
BH	(60°-80°)	3067.1	25.9	B4/5000		G2/5000
BVH	(80°-90°)	335.4	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





REPORT NUMBER: P180188

CATALOG NUMBER: ICM-E04-LED-E1-5XQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1123.2	1123.7	1123.4	1122.8	1123.1	1122.8	1122.2	1121.9	1119.7	1120.9	1122.8
5°	1123.1	1122.5	1122.1	1121.9	1121.9	1122.8	1121.9	1120.9	1120.6	1121.2	1120.4
7.5°	1122.4	1121.3	1120.7	1120.3	1120.7	1120.9	1120.0	1118.7	1119.6	1118.7	1117.5
10°	1120.7	1119.6	1120.0	1118.7	1119.1	1118.7	1117.5	1116.6	1117.2	1116.3	1114.8
12.5°	1121.3	1119.6	1119.4	1118.7	1118.5	1118.1	1116.7	1115.1	1115.4	1114.7	1113.2
15°	1121.3	1120.3	1120.0	1118.8	1118.4	1117.9	1115.9	1115.4	1115.4	1114.4	1112.6
17.5°	1121.9	1121.2	1121.2	1119.7	1119.1	1118.8	1116.6	1115.6	1116.6	1114.8	1113.5
20°	1123.7	1123.1	1123.4	1122.4	1121.2	1121.3	1119.7	1119.1	1119.4	1119.1	1115.6
22.5°	1127.4	1127.4	1128.1	1127.8	1127.4	1127.7	1126.5	1126.5	1126.8	1126.9	1124.0
25°	1138.0	1137.7	1138.3	1138.3	1138.6	1140.8	1139.9	1139.5	1141.1	1141.0	1138.3
27.5°	1157.8	1157.2	1157.9	1158.4	1160.0	1162.8	1162.1	1163.2	1165.6	1164.9	1162.5
30°	1180.8	1180.2	1181.7	1183.6	1184.8	1189.2	1187.3	1191.9	1194.1	1196.0	1194.1
32.5°	1214.3	1214.2	1217.0	1218.2	1221.1	1225.4	1226.1	1229.8	1232.6	1235.7	1233.5
35°	1259.0	1258.2	1260.5	1262.7	1266.1	1270.1	1271.6	1276.7	1280.9	1283.1	1279.1
37.5°	1327.1	1323.7	1327.8	1328.9	1331.8	1332.8	1337.1	1343.3	1347.9	1347.3	1344.5
40°	1419.5	1419.0	1417.4	1415.5	1419.9	1421.4	1421.4	1429.8	1437.2	1436.0	1435.6
42.5°	1527.5	1524.7	1522.8	1522.8	1525.2	1526.0	1535.5	1541.7	1547.0	1548.2	1547.0
45°	1643.4	1640.7	1641.3	1640.0	1640.9	1644.9	1650.5	1662.1	1671.9	1672.3	1667.0
47.5°	1768.0	1759.4	1766.2	1756.7	1762.5	1765.6	1779.5	1796.3	1813.7	1816.8	1812.1
50°	1894.5	1893.7	1893.0	1891.2	1894.0	1900.8	1917.8	1944.2	1960.9	1972.1	1964.7
52.5°	2032.9	2028.3	2026.1	2023.0	2025.8	2039.1	2062.9	2086.0	2115.9	2128.8	2118.4
55°	2167.5	2165.9	2157.9	2157.5	2163.5	2184.2	2210.2	2238.4	2271.1	2285.3	2281.5
57.5°	2305.8	2296.8	2294.2	2290.5	2302.3	2321.9	2353.9	2404.7	2438.4	2454.6	2445.2
60°	2440.9	2434.1	2428.9	2427.5	2435.7	2462.9	2508.9	2569.9	2611.8	2632.9	2618.0
62.5°	2586.1	2581.8	2575.5	2568.4	2585.5	2620.5	2677.6	2745.1	2806.8	2832.9	2810.2
65°	2766.5	2757.5	2750.7	2741.7	2755.6	2799.6	2871.3	2966.5	3049.3	3079.7	3063.6
67.5°	2956.9	2948.6	2949.1	2943.6	2968.4	3029.5	3121.9	3251.2	3362.2	3414.0	3383.6
70°	3123.1	3127.7	3128.9	3151.6	3194.4	3287.5	3441.2	3643.7	3812.1	3891.2	3858.6
71°	3074.2	3084.4	3100.2	3123.7	3197.6	3307.6	3517.6	3762.8	3963.7	4097.7	4052.7
72.5°	2935.2	2941.4	2949.5	2985.5	3068.9	3214.6	3430.7	3711.0	3969.3	4142.6	4090.5
75°	2734.3	2740.2	2742.9	2768.1	2844.0	2971.2	3169.0	3417.7	3645.6	3793.1	3778.6
77.5°	2431.1	2431.9	2453.6	2492.5	2577.7	2723.1	2931.5	3189.5	3403.7	3518.4	3445.6
80°	1745.7	1734.0	1756.3	1806.2	1911.6	2078.5	2291.8	2586.4	2824.2	2931.5	2818.6
82.5°	664.2	700.2	756.8	839.4	875.1	1060.5	1259.5	1432.6	1632.8	1856.8	1800.7
85°	71.3	80.4	100.7	125.0	157.9	218.3	301.8	411.8	507.5	596.6	529.6
87.5°	26.6	27.3	30.4	35.1	35.7	37.2	39.7	46.1	43.1	37.2	30.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180188

CATALOG NUMBER: ICM-E04-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1121.2	1121.6	1121.2	1121.6	1121.6	1120.3	1120.6	1120.0
5°	1120.9	1120.0	1120.3	1120.6	1120.3	1120.9	1120.0	1120.6
7.5°	1119.4	1117.5	1118.1	1118.1	1117.5	1118.5	1117.8	1117.6
10°	1116.3	1113.9	1115.1	1114.4	1114.1	1114.4	1114.4	1114.4
12.5°	1113.5	1111.9	1112.3	1112.0	1111.6	1112.6	1112.3	1112.6
15°	1112.8	1110.4	1110.1	1109.4	1109.8	1110.4	1110.4	1111.3
17.5°	1112.3	1109.1	1108.8	1108.2	1108.6	1109.8	1110.1	1109.4
20°	1114.1	1111.6	1111.0	1110.4	1110.1	1111.6	1111.4	1111.3
22.5°	1122.8	1119.7	1119.4	1116.8	1115.9	1116.8	1116.3	1116.3
25°	1136.8	1133.0	1131.8	1128.4	1126.0	1125.9	1124.9	1124.3
27.5°	1161.9	1156.3	1155.0	1152.3	1148.8	1149.4	1147.6	1147.4
30°	1191.1	1186.1	1181.7	1177.7	1173.6	1172.1	1170.0	1169.7
32.5°	1229.1	1223.5	1218.3	1213.3	1207.7	1205.6	1201.9	1200.0
35°	1275.9	1268.5	1262.3	1259.0	1253.3	1250.5	1248.0	1250.8
37.5°	1341.4	1332.4	1329.3	1325.2	1321.6	1317.2	1318.1	1317.2
40°	1431.9	1423.9	1420.8	1413.7	1412.8	1407.7	1410.9	1407.7
42.5°	1543.9	1528.9	1526.9	1521.3	1519.4	1516.7	1517.9	1515.6
45°	1665.7	1652.4	1650.0	1640.9	1641.3	1634.8	1637.2	1637.2
47.5°	1802.8	1788.8	1777.4	1770.9	1768.4	1764.4	1766.5	1766.2
50°	1944.2	1925.2	1912.6	1899.8	1894.2	1895.8	1891.5	1899.0
52.5°	2096.1	2067.9	2049.9	2037.9	2027.3	2029.4	2030.1	2032.2
55°	2253.3	2217.3	2191.4	2175.5	2165.9	2166.5	2169.3	2171.7
57.5°	2411.5	2366.5	2331.2	2307.6	2301.4	2304.2	2304.2	2303.8
60°	2575.6	2521.6	2476.0	2449.3	2443.7	2442.2	2454.2	2450.2
62.5°	2751.6	2686.8	2639.7	2605.6	2597.6	2603.1	2614.0	2611.5
65°	2985.1	2895.6	2834.7	2800.9	2787.3	2792.9	2807.5	2806.8
67.5°	3286.3	3160.9	3080.7	3037.2	3027.4	3034.2	3042.2	3049.9
70°	3736.4	3557.5	3442.8	3348.9	3308.6	3300.9	3308.9	3309.1
71°	3894.9	3689.3	3506.7	3391.9	3325.9	3298.0	3300.2	3286.2
72.5°	3888.4	3635.0	3421.4	3301.4	3209.6	3187.3	3176.5	3159.7
75°	3626.3	3398.2	3212.7	3081.9	2993.5	2967.2	2947.9	2947.0
77.5°	3288.7	3120.4	2916.0	2777.4	2669.8	2626.1	2606.5	2606.0
80°	2643.7	2391.6	2242.2	2158.7	2028.8	1991.4	1951.6	1936.8
82.5°	1598.8	1249.3	1015.8	902.7	840.0	691.8	620.7	587.4
85°	372.5	264.6	182.3	119.7	86.2	68.6	52.7	46.5
87.5°	25.1	19.8	17.7	14.3	10.9	10.5	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)