

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: P677142

Luminaire Tested: **CCW-SA-1E-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677142
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

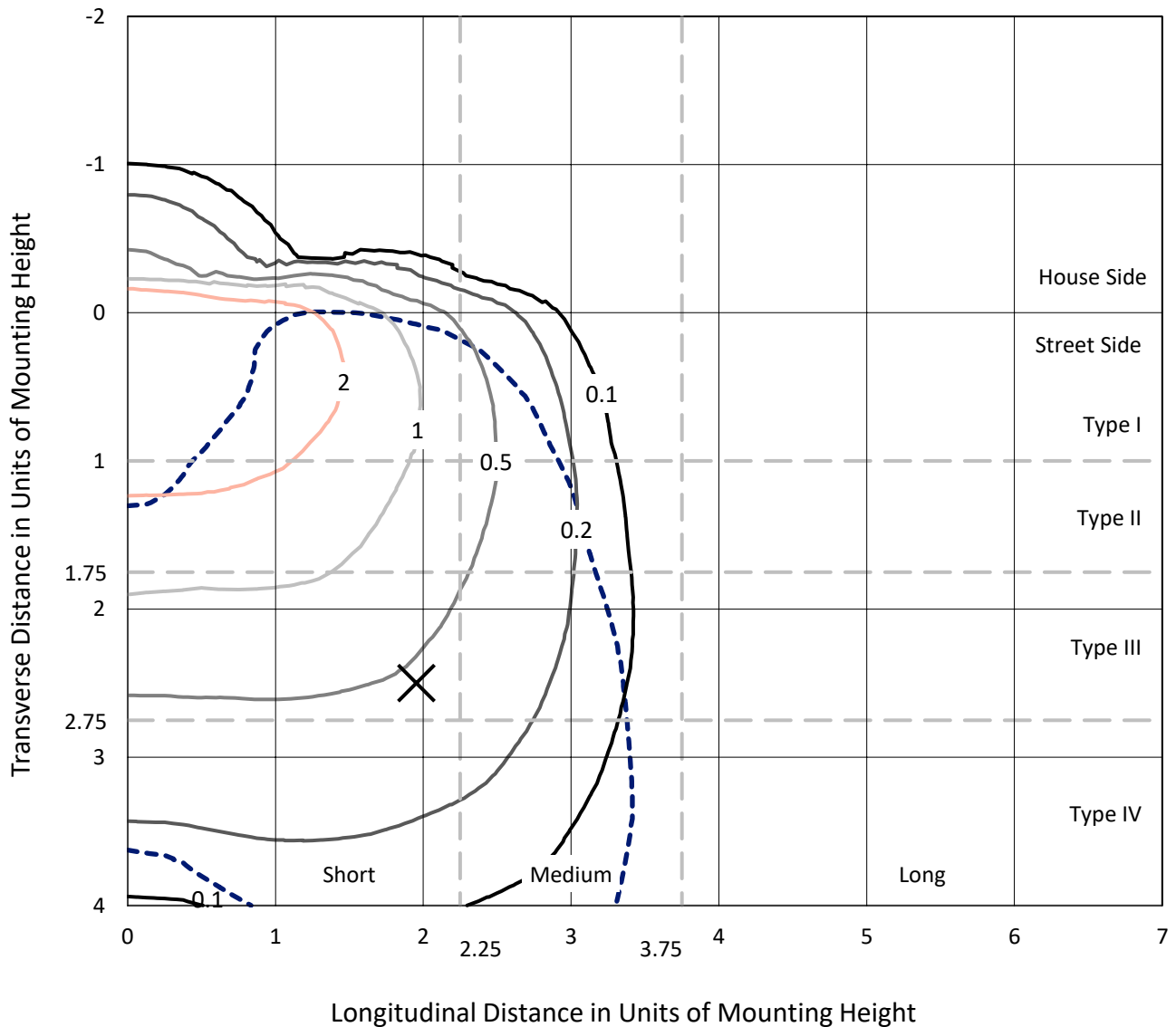
Lumens per Lamp: N/A
Luminaire Lumens: 5647.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
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

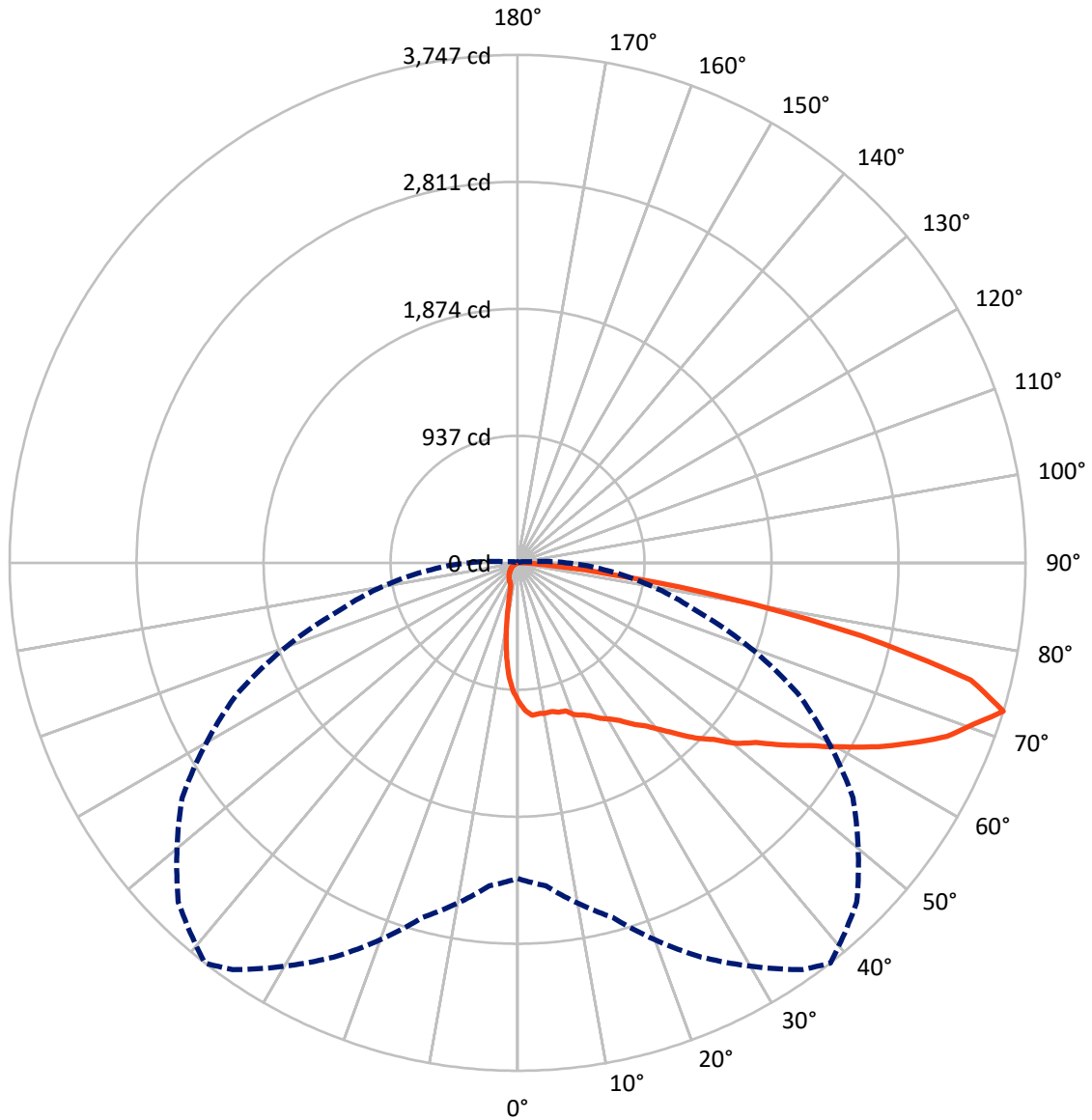
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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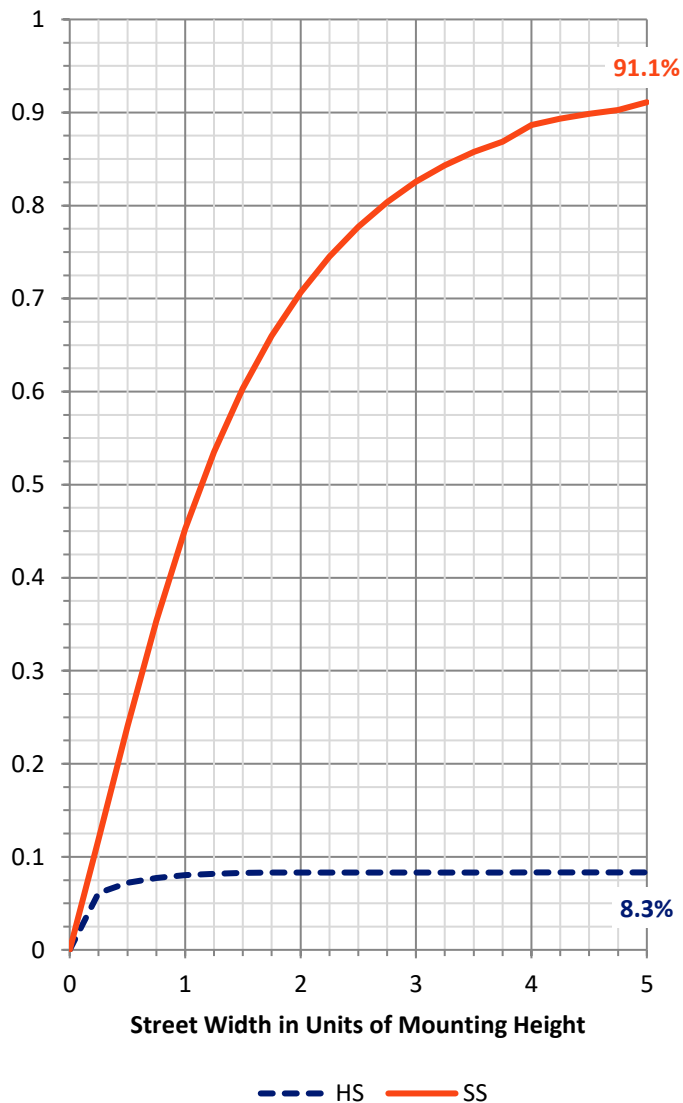
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.0	0.0	473.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5174.6	0.0	5174.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	5647.6	0.0	5647.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.6
10°-20°	218.9	3.9
20°-30°	350.9	6.2
30°-40°	529.7	9.4
40°-50°	806.2	14.3
50°-60°	1135.1	20.1
60°-70°	1386.5	24.6
70°-80°	1006.8	17.8
80°-90°	124.0	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°	5647.6	100.0
0°-180°	5647.6	100.0

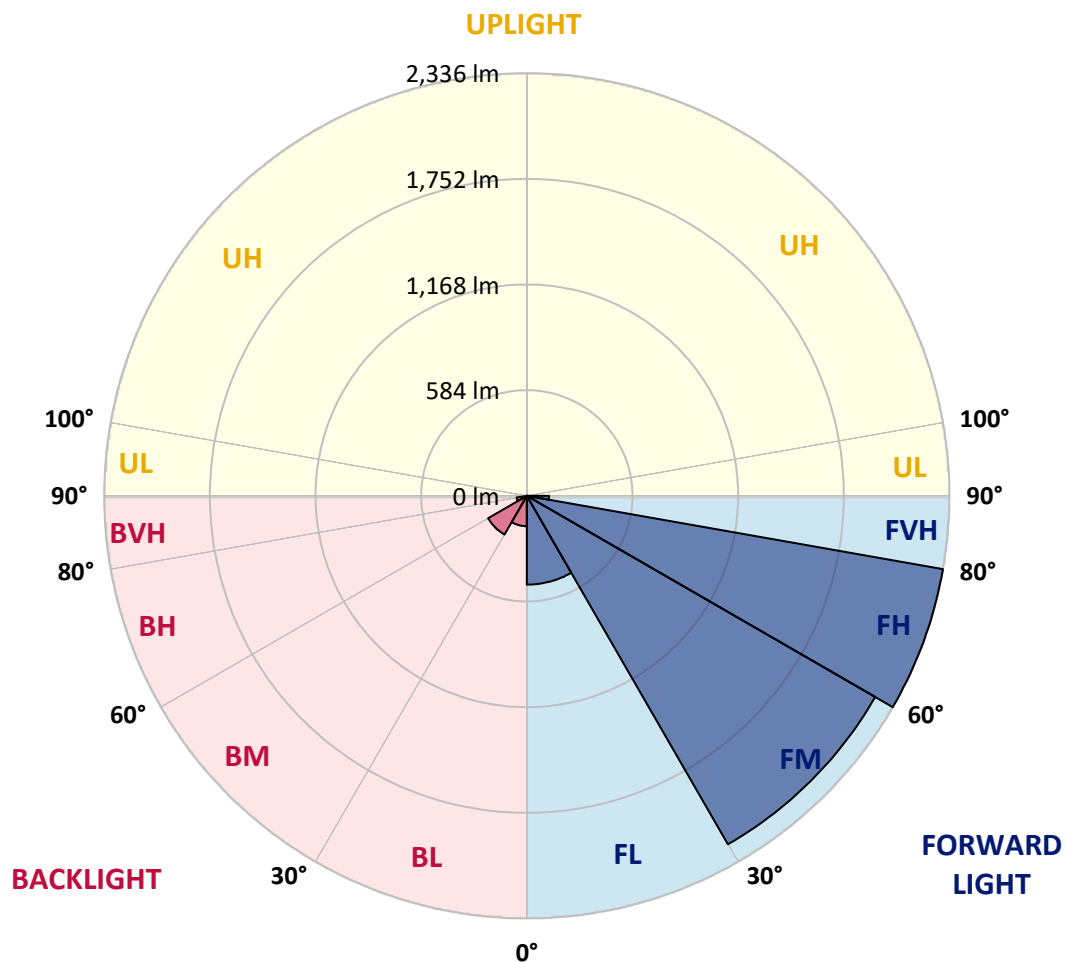


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.2	8.7			
FM (30°-60°)	2224.0	39.4			
FH (60°-80°)	2336.0	41.4			G2/5000
FVH (80°-90°)	123.3	2.2			G2/225
BL (0°-30°)	167.9	3.0	B1/500		
BM (30°-60°)	247.1	4.4	B1/1000		
BH (60°-80°)	57.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1122.0	1122.0	1132.6	1122.0	1118.0	1092.8	1094.2	1080.9	1067.7	1049.1	1031.9
5°	1135.2	1144.5	1151.1	1141.8	1127.3	1129.9	1139.2	1114.0	1078.3	1055.7	1017.3
7.5°	1129.9	1149.8	1144.5	1139.2	1129.9	1123.3	1110.1	1099.5	1082.2	1061.0	1016.0
10°	1125.9	1132.6	1133.9	1129.9	1110.1	1128.6	1114.0	1096.8	1075.6	1050.4	994.8
12.5°	1111.4	1111.4	1123.3	1114.0	1116.7	1125.9	1119.3	1115.4	1092.8	1071.6	1022.6
15°	1095.5	1100.8	1119.3	1133.9	1147.1	1143.2	1139.2	1127.3	1107.4	1083.6	1031.9
17.5°	1099.5	1102.1	1131.2	1157.7	1151.1	1148.5	1169.7	1144.5	1124.6	1098.1	1039.8
20°	1114.0	1122.0	1155.1	1189.5	1196.2	1196.2	1188.2	1173.6	1145.8	1110.1	1054.4
22.5°	1128.6	1131.2	1185.6	1229.3	1235.9	1218.7	1225.3	1182.9	1156.4	1136.5	1069.0
25°	1184.2	1178.9	1237.2	1271.7	1267.7	1250.5	1243.8	1206.8	1196.2	1160.4	1100.8
27.5°	1259.7	1237.2	1294.2	1315.4	1294.2	1299.5	1280.9	1241.2	1218.7	1197.5	1115.4
30°	1306.1	1319.3	1349.8	1371.0	1335.2	1336.6	1327.3	1283.6	1249.1	1254.4	1164.4
32.5°	1377.6	1386.9	1409.4	1418.7	1390.9	1388.2	1379.0	1344.5	1319.3	1314.0	1230.6
35°	1454.5	1471.7	1473.0	1475.7	1450.5	1461.1	1447.8	1398.8	1412.1	1421.3	1310.1
37.5°	1530.0	1514.1	1540.6	1552.5	1524.7	1524.7	1528.6	1495.5	1519.4	1547.2	1422.7
40°	1559.1	1565.7	1612.1	1602.8	1635.9	1616.1	1630.6	1622.7	1642.6	1706.1	1581.6
42.5°	1589.6	1597.5	1659.8	1677.0	1716.7	1723.4	1744.6	1745.9	1804.2	1908.8	1734.0
45°	1647.9	1634.6	1719.4	1761.8	1826.7	1845.2	1870.4	1891.6	1983.0	2106.2	1907.5
47.5°	1700.8	1682.3	1779.0	1863.8	1943.3	1947.2	2016.1	2038.6	2147.2	2287.7	2079.7
50°	1775.0	1781.6	1822.7	1968.4	2049.2	2095.6	2143.3	2217.5	2338.0	2487.7	2204.2
52.5°	1851.9	1845.2	1914.1	2057.2	2184.3	2201.6	2308.9	2392.3	2523.4	2636.0	2259.8
55°	1945.9	1953.9	1980.3	2168.4	2330.0	2371.1	2491.7	2579.1	2722.1	2699.6	2278.4
57.5°	2040.0	2032.0	2091.6	2293.0	2512.9	2543.3	2703.6	2755.3	2852.0	2742.0	2232.0
60°	2132.7	2147.2	2172.4	2433.4	2712.9	2757.9	2885.1	2911.6	2932.8	2761.9	2196.3
62.5°	2238.6	2204.2	2282.4	2581.7	2893.0	2987.1	3087.7	2983.1	2964.6	2726.1	2114.1
65°	2291.6	2302.2	2404.2	2751.3	3132.8	3201.7	3214.9	3079.8	2984.4	2646.6	2037.3
67.5°	2373.8	2388.3	2518.1	2924.8	3379.2	3417.6	3369.9	3167.2	2967.2	2543.3	1760.5
70°	2384.4	2420.1	2670.5	3106.3	3534.2	3567.3	3530.2	3225.5	2828.1	2136.7	1303.5
72.5°	2328.7	2392.3	2707.6	3209.6	3664.0	3747.4	3539.5	3020.2	2279.7	1363.1	667.6
75°	1759.1	1812.1	2478.4	3056.0	3433.5	3453.3	3107.6	2304.9	1298.2	465.0	170.9
77.5°	911.4	1002.8	1654.5	2335.3	2616.2	2595.0	2163.1	1357.8	446.4	121.9	68.9
80°	523.2	545.8	723.3	1311.4	1645.2	1564.4	1196.2	585.5	196.0	60.9	45.0
82.5°	258.3	290.1	389.4	586.8	822.6	676.9	449.1	351.0	109.9	33.1	39.7
85°	55.6	58.3	198.7	280.8	333.8	219.9	153.7	295.4	39.7	19.9	38.4
87.5°	39.7	38.4	55.6	125.8	92.7	57.0	91.4	155.0	9.3	9.3	7.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1021.3	1009.4	996.1	971.0	964.3	960.4	937.8	936.5	932.5	923.3	919.3
5°	993.5	973.6	948.4	922.0	900.8	862.3	816.0	792.1	763.0	764.3	755.0
7.5°	989.5	952.4	916.7	861.0	793.5	721.9	650.4	604.0	570.9	551.1	555.0
10°	971.0	943.1	884.9	781.5	672.9	564.3	472.9	404.0	364.3	333.8	343.1
12.5°	978.9	924.6	842.5	704.7	549.7	415.9	302.0	235.8	206.6	196.0	198.7
15°	973.6	924.6	817.3	621.3	431.8	282.1	196.0	174.9	169.6	169.6	166.9
17.5°	989.5	935.2	774.9	539.1	310.0	188.1	168.2	164.3	160.3	160.3	160.3
20°	1012.0	940.5	745.8	447.7	218.6	165.6	157.6	155.0	153.7	153.7	152.3
22.5°	1013.4	935.2	691.5	347.1	168.2	156.3	149.7	148.4	148.4	145.7	145.7
25°	1021.3	940.5	633.2	261.0	156.3	147.0	141.7	140.4	141.7	140.4	139.1
27.5°	1041.2	949.8	574.9	190.7	147.0	139.1	135.1	133.8	133.8	133.8	131.1
30°	1066.3	949.8	510.0	157.6	139.1	131.1	127.2	125.8	124.5	124.5	124.5
32.5°	1119.3	980.2	430.5	140.4	128.5	121.9	117.9	117.9	116.6	116.6	115.2
35°	1185.6	1001.4	349.7	129.8	119.2	112.6	108.6	108.6	107.3	107.3	106.0
37.5°	1267.7	1054.4	267.6	121.9	109.9	103.3	99.3	99.3	99.3	98.0	98.0
40°	1384.3	1108.7	198.7	111.3	100.7	94.0	91.4	90.1	88.8	88.8	86.1
42.5°	1508.8	1192.2	148.4	103.3	92.7	87.4	83.5	79.5	79.5	75.5	75.5
45°	1643.9	1265.0	120.5	94.0	84.8	78.2	74.2	71.5	67.6	64.9	64.9
47.5°	1776.3	1310.1	106.0	83.5	76.8	71.5	67.6	62.3	57.0	55.6	54.3
50°	1883.6	1323.3	94.0	75.5	70.2	64.9	59.6	53.0	47.7	45.0	43.7
52.5°	1883.6	1250.5	84.8	67.6	63.6	58.3	51.7	43.7	37.1	34.4	33.1
55°	1883.6	1135.2	75.5	62.3	57.0	53.0	43.7	35.8	29.1	25.2	23.8
57.5°	1855.8	996.1	67.6	55.6	50.3	45.0	37.1	27.8	21.2	17.2	17.2
60°	1779.0	850.4	58.3	49.0	43.7	37.1	29.1	19.9	13.2	9.3	9.3
62.5°	1681.0	676.9	50.3	41.1	35.8	30.5	22.5	13.2	5.3	2.6	2.6
65°	1510.1	499.4	43.7	34.4	27.8	22.5	14.6	5.3	0.0	0.0	0.0
67.5°	1246.5	333.8	34.4	27.8	23.8	15.9	9.3	1.3	0.0	0.0	0.0
70°	876.9	189.4	26.5	19.9	17.2	10.6	2.6	0.0	0.0	0.0	0.0
72.5°	360.3	83.5	18.5	14.6	11.9	5.3	0.0	0.0	0.0	0.0	0.0
75°	98.0	37.1	11.9	7.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	57.0	25.2	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.0	11.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.0	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)