

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: P677145

Luminaire Tested: **CCW-SA-2B-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677145
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

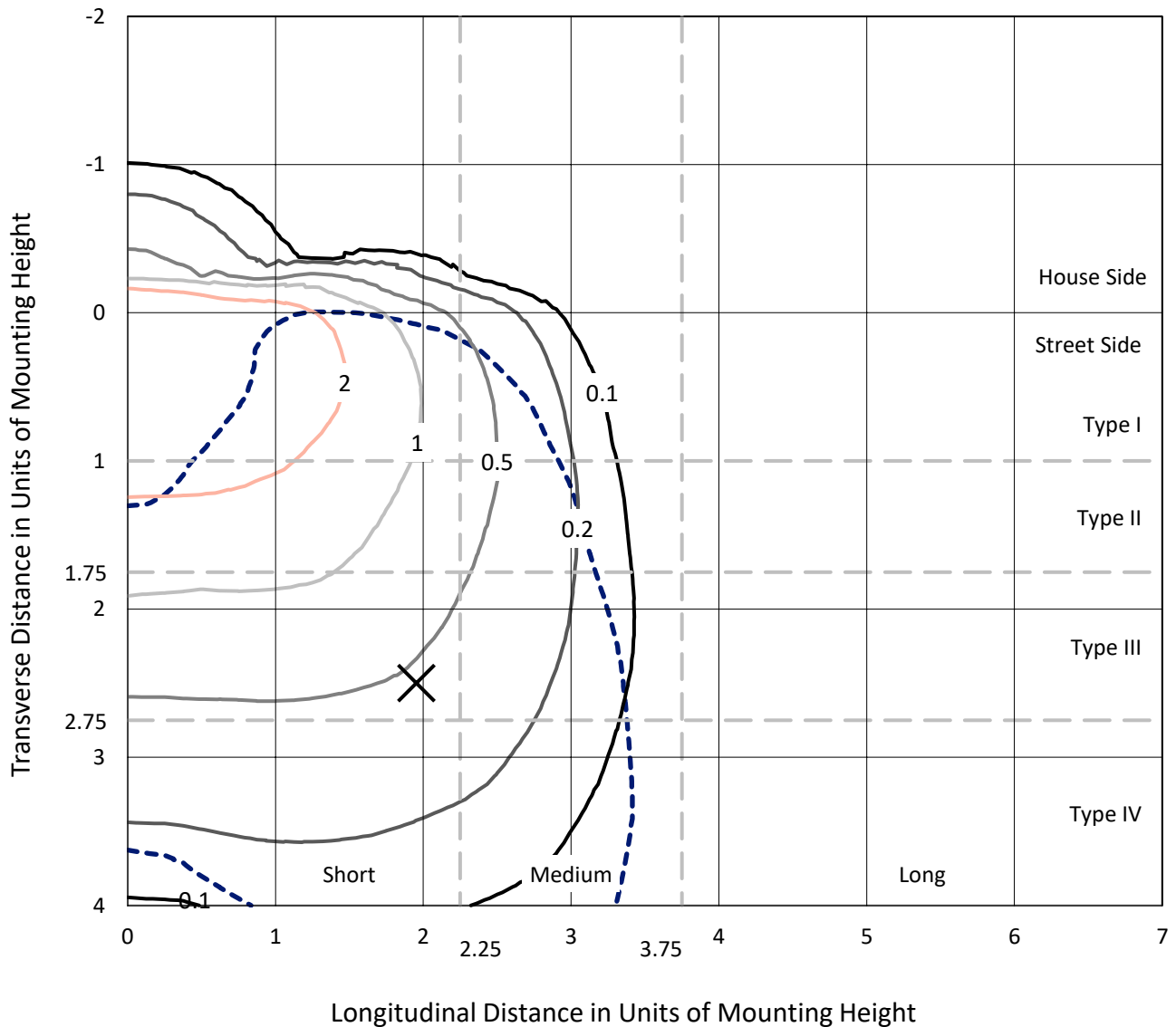
Lumens per Lamp: N/A
Luminaire Lumens: 5704.7 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
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

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Iso-Footcandle Lines of Horizontal Illumination

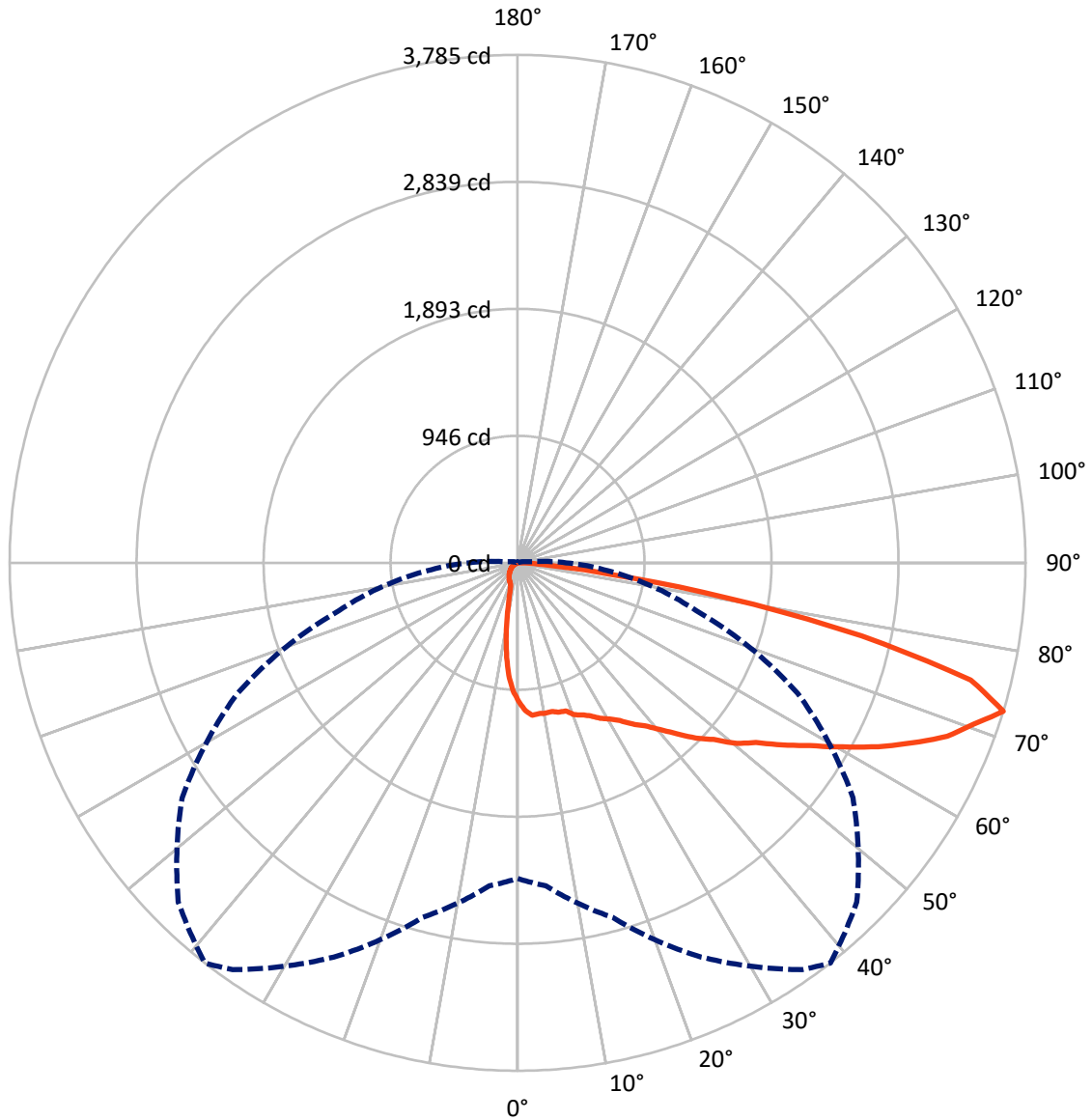
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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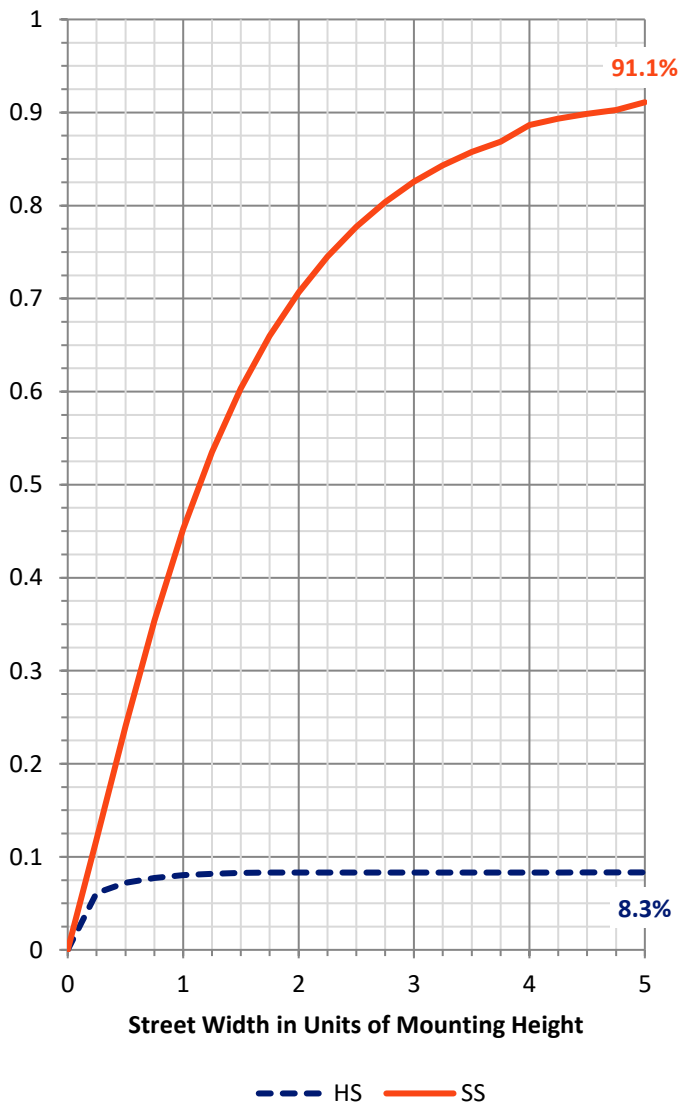
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.8	0.0	477.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5226.9	0.0	5226.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	5704.7	0.0	5704.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.6
10°-20°	221.1	3.9
20°-30°	354.4	6.2
30°-40°	535.1	9.4
40°-50°	814.4	14.3
50°-60°	1146.6	20.1
60°-70°	1400.6	24.6
70°-80°	1017.0	17.8
80°-90°	125.3	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°	5704.7	100.0
0°-180°	5704.7	100.0



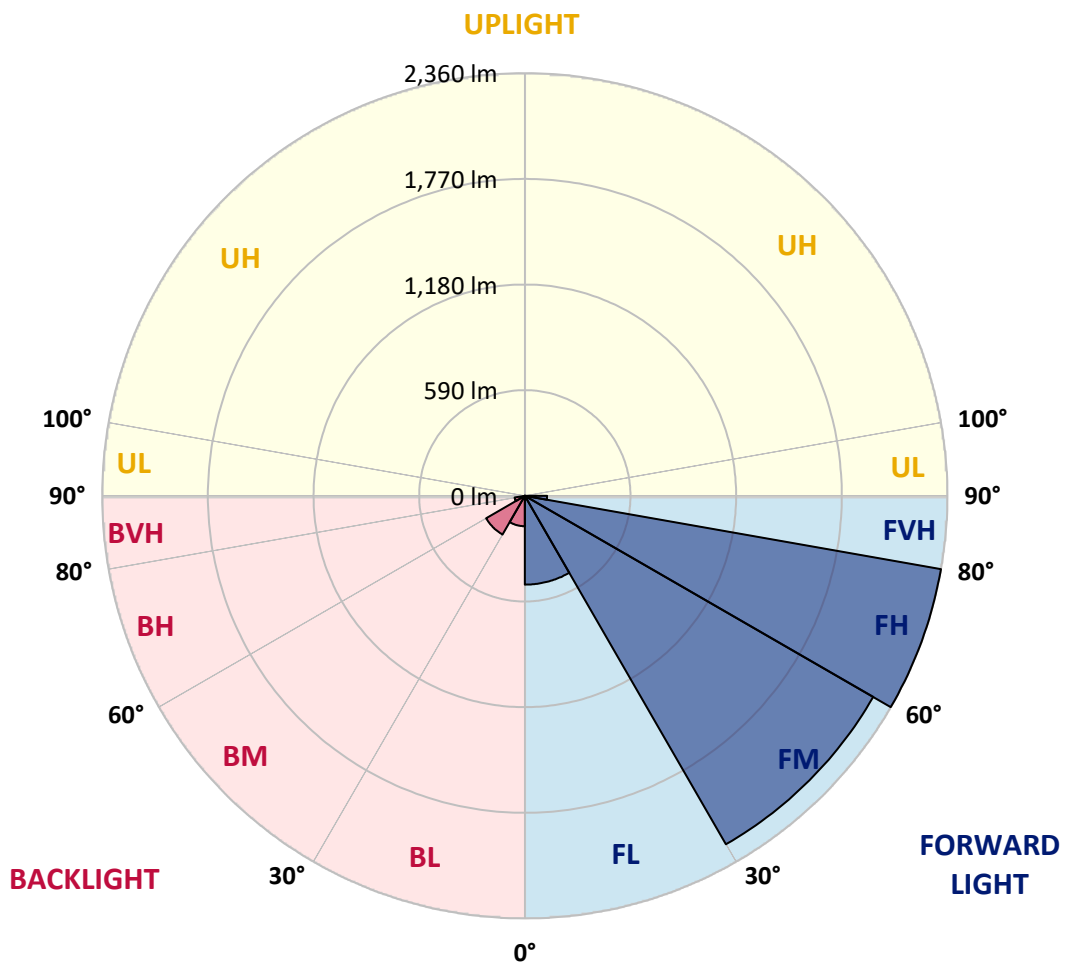
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.2	8.7			
FM (30°-60°)	2246.5	39.4			
FH (60°-80°)	2359.6	41.4			G2/5000
FVH (80°-90°)	124.6	2.2			G2/225
BL (0°-30°)	169.6	3.0	B1/500		
BM (30°-60°)	249.6	4.4	B1/1000		
BH (60°-80°)	57.9	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°	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6
2.5°	1133.3	1133.3	1144.0	1133.3	1129.3	1103.9	1105.2	1091.8	1078.5	1059.7	1042.3
5°	1146.7	1156.1	1162.8	1153.4	1138.7	1141.4	1150.7	1125.3	1089.2	1066.4	1027.6
7.5°	1141.4	1161.4	1156.1	1150.7	1141.4	1134.7	1121.3	1110.6	1093.2	1071.8	1026.3
10°	1137.3	1144.0	1145.4	1141.4	1121.3	1140.0	1125.3	1107.9	1086.5	1061.1	1004.9
12.5°	1122.6	1122.6	1134.7	1125.3	1128.0	1137.3	1130.6	1126.6	1103.9	1082.5	1033.0
15°	1106.6	1111.9	1130.6	1145.4	1158.7	1154.7	1150.7	1138.7	1118.6	1094.5	1042.3
17.5°	1110.6	1113.3	1142.7	1169.5	1162.8	1160.1	1181.5	1156.1	1136.0	1109.2	1050.4
20°	1125.3	1133.3	1166.8	1201.6	1208.3	1208.3	1200.2	1185.5	1157.4	1121.3	1065.1
22.5°	1140.0	1142.7	1197.6	1241.7	1248.4	1231.0	1237.7	1194.9	1168.1	1148.0	1079.8
25°	1196.2	1190.9	1249.7	1284.5	1280.5	1263.1	1256.4	1219.0	1208.3	1172.1	1111.9
27.5°	1272.5	1249.7	1307.3	1328.7	1307.3	1312.6	1293.9	1253.7	1231.0	1209.6	1126.6
30°	1319.3	1332.7	1363.5	1384.9	1348.8	1350.1	1340.7	1296.6	1261.8	1267.1	1176.1
32.5°	1391.6	1400.9	1423.7	1433.0	1404.9	1402.3	1392.9	1358.1	1332.7	1327.3	1243.0
35°	1469.2	1486.6	1487.9	1490.6	1465.2	1475.9	1462.5	1413.0	1426.4	1435.7	1323.3
37.5°	1545.4	1529.4	1556.1	1568.2	1540.1	1540.1	1544.1	1510.7	1534.7	1562.8	1437.1
40°	1574.9	1581.6	1628.4	1619.0	1652.5	1632.4	1647.1	1639.1	1659.2	1723.4	1597.6
42.5°	1605.7	1613.7	1676.6	1694.0	1734.1	1740.8	1762.2	1763.5	1822.4	1928.1	1751.5
45°	1664.5	1651.1	1736.8	1779.6	1845.2	1863.9	1889.3	1910.7	2003.1	2127.5	1926.8
47.5°	1718.1	1699.3	1797.0	1882.6	1962.9	1966.9	2036.5	2059.3	2169.0	2310.8	2100.7
50°	1793.0	1799.7	1841.2	1988.3	2070.0	2116.8	2165.0	2239.9	2361.7	2512.9	2226.5
52.5°	1870.6	1863.9	1933.5	2078.0	2206.4	2223.8	2332.2	2416.5	2549.0	2662.7	2282.7
55°	1965.6	1973.6	2000.4	2190.4	2353.6	2395.1	2516.9	2605.2	2749.7	2726.9	2301.4
57.5°	2060.6	2052.6	2112.8	2316.2	2538.3	2569.0	2731.0	2783.1	2880.8	2769.8	2254.6
60°	2154.3	2169.0	2194.4	2458.0	2740.3	2785.8	2914.3	2941.0	2962.4	2789.8	2218.5
62.5°	2261.3	2226.5	2305.5	2607.9	2922.3	3017.3	3119.0	3013.3	2994.5	2753.7	2135.5
65°	2314.8	2325.5	2428.6	2779.1	3164.5	3234.1	3247.4	3111.0	3014.6	2673.4	2057.9
67.5°	2397.8	2412.5	2543.6	2954.4	3413.4	3452.2	3404.0	3199.3	2997.2	2569.0	1778.3
70°	2408.5	2444.6	2697.5	3137.7	3569.9	3603.4	3565.9	3258.1	2856.7	2158.3	1316.6
72.5°	2352.3	2416.5	2735.0	3242.1	3701.0	3785.3	3575.3	3050.7	2302.8	1376.8	674.4
75°	1776.9	1830.4	2503.5	3086.9	3468.2	3488.3	3139.1	2328.2	1311.3	469.7	172.6
77.5°	920.6	1012.9	1671.2	2359.0	2642.6	2621.2	2185.0	1371.5	450.9	123.1	69.6
80°	528.5	551.3	730.6	1324.7	1661.9	1580.2	1208.3	591.4	198.0	61.6	45.5
82.5°	260.9	293.0	393.4	592.8	830.9	683.7	453.6	354.6	111.1	33.5	40.1
85°	56.2	58.9	200.7	283.7	337.2	222.1	155.2	298.4	40.1	20.1	38.8
87.5°	40.1	38.8	56.2	127.1	93.7	57.5	92.3	156.6	9.4	9.4	8.0
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°	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6	1031.6
2.5°	1031.6	1019.6	1006.2	980.8	974.1	970.1	947.3	946.0	942.0	932.6	928.6
5°	1003.5	983.5	958.0	931.3	909.9	871.1	824.2	800.2	770.7	772.1	762.7
7.5°	999.5	962.1	925.9	869.7	801.5	729.2	657.0	610.1	576.7	556.6	560.6
10°	980.8	952.7	893.8	789.4	679.7	570.0	477.7	408.1	368.0	337.2	346.6
12.5°	988.8	934.0	851.0	711.8	555.3	420.1	305.1	238.2	208.7	198.0	200.7
15°	983.5	934.0	825.6	627.5	436.2	285.0	198.0	176.6	171.3	171.3	168.6
17.5°	999.5	944.7	782.8	544.6	313.1	190.0	169.9	165.9	161.9	161.9	161.9
20°	1022.3	950.0	753.3	452.3	220.8	167.3	159.2	156.6	155.2	155.2	153.9
22.5°	1023.6	944.7	698.5	350.6	169.9	157.9	151.2	149.9	149.9	147.2	147.2
25°	1031.6	950.0	639.6	263.6	157.9	148.5	143.2	141.8	143.2	141.8	140.5
27.5°	1051.7	959.4	580.7	192.7	148.5	140.5	136.5	135.1	135.1	135.1	132.5
30°	1077.1	959.4	515.1	159.2	140.5	132.5	128.5	127.1	125.8	125.8	125.8
32.5°	1130.6	990.2	434.9	141.8	129.8	123.1	119.1	119.1	117.7	117.7	116.4
35°	1197.6	1011.6	353.2	131.1	120.4	113.7	109.7	109.7	108.4	108.4	107.0
37.5°	1280.5	1065.1	270.3	123.1	111.1	104.4	100.4	100.4	100.4	99.0	99.0
40°	1398.3	1119.9	200.7	112.4	101.7	95.0	92.3	91.0	89.6	89.6	87.0
42.5°	1524.0	1204.2	149.9	104.4	93.7	88.3	84.3	80.3	80.3	76.3	76.3
45°	1660.5	1277.8	121.8	95.0	85.6	78.9	74.9	72.3	68.2	65.6	65.6
47.5°	1794.3	1323.3	107.0	84.3	77.6	72.3	68.2	62.9	57.5	56.2	54.9
50°	1902.7	1336.7	95.0	76.3	70.9	65.6	60.2	53.5	48.2	45.5	44.2
52.5°	1902.7	1263.1	85.6	68.2	64.2	58.9	52.2	44.2	37.5	34.8	33.5
55°	1902.7	1146.7	76.3	62.9	57.5	53.5	44.2	36.1	29.4	25.4	24.1
57.5°	1874.6	1006.2	68.2	56.2	50.8	45.5	37.5	28.1	21.4	17.4	17.4
60°	1797.0	859.0	58.9	49.5	44.2	37.5	29.4	20.1	13.4	9.4	9.4
62.5°	1698.0	683.7	50.8	41.5	36.1	30.8	22.7	13.4	5.4	2.7	2.7
65°	1525.4	504.4	44.2	34.8	28.1	22.7	14.7	5.4	0.0	0.0	0.0
67.5°	1259.1	337.2	34.8	28.1	24.1	16.1	9.4	1.3	0.0	0.0	0.0
70°	885.8	191.3	26.8	20.1	17.4	10.7	2.7	0.0	0.0	0.0	0.0
72.5°	363.9	84.3	18.7	14.7	12.0	5.4	0.0	0.0	0.0	0.0	0.0
75°	99.0	37.5	12.0	8.0	6.7	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	57.5	25.4	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.5	12.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	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)