

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: P674042

Luminaire Tested: **CCP-SA-1F-835-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674042
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-835-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

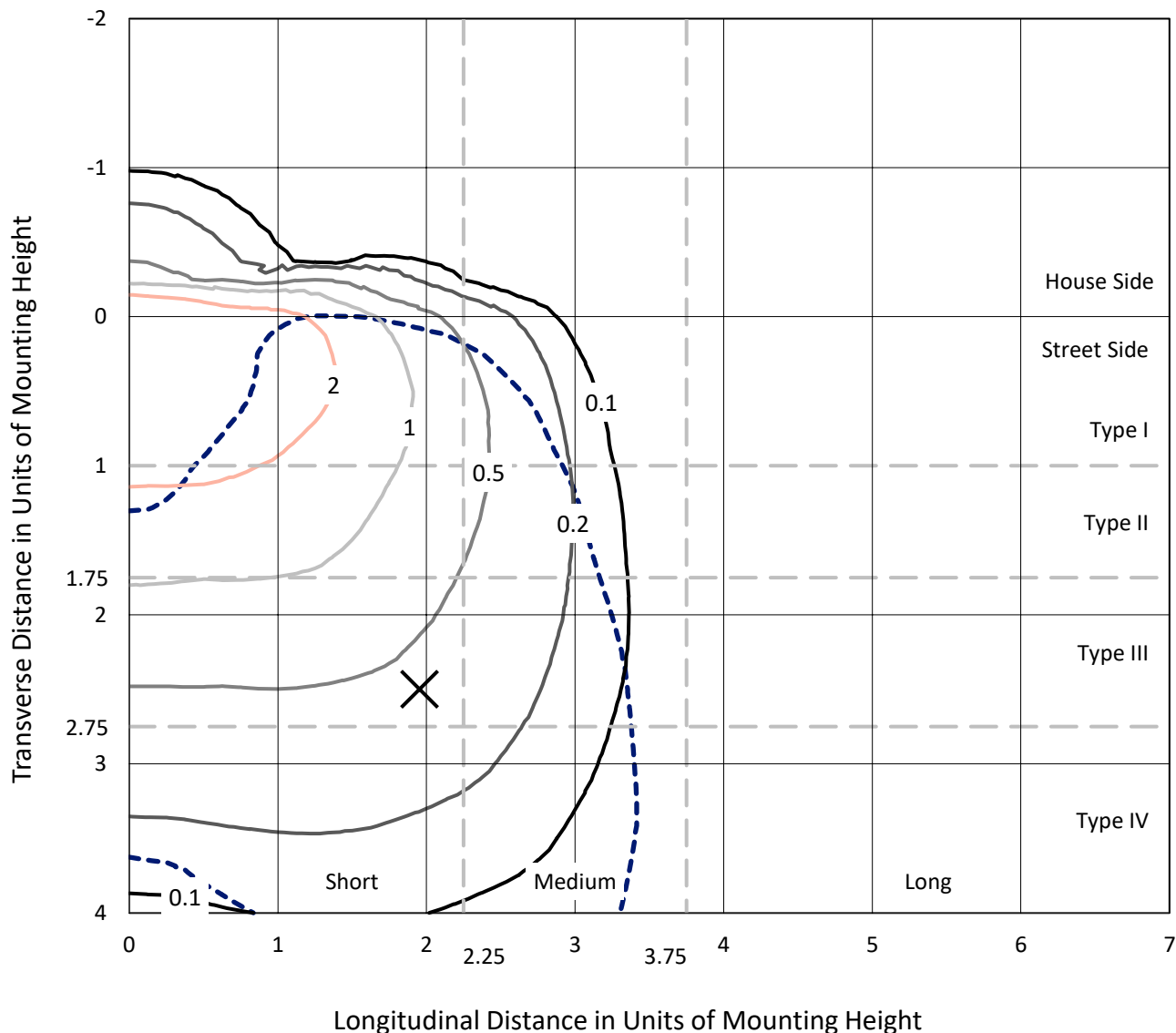
Lumens per Lamp: N/A
Luminaire Lumens: 5103.3 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

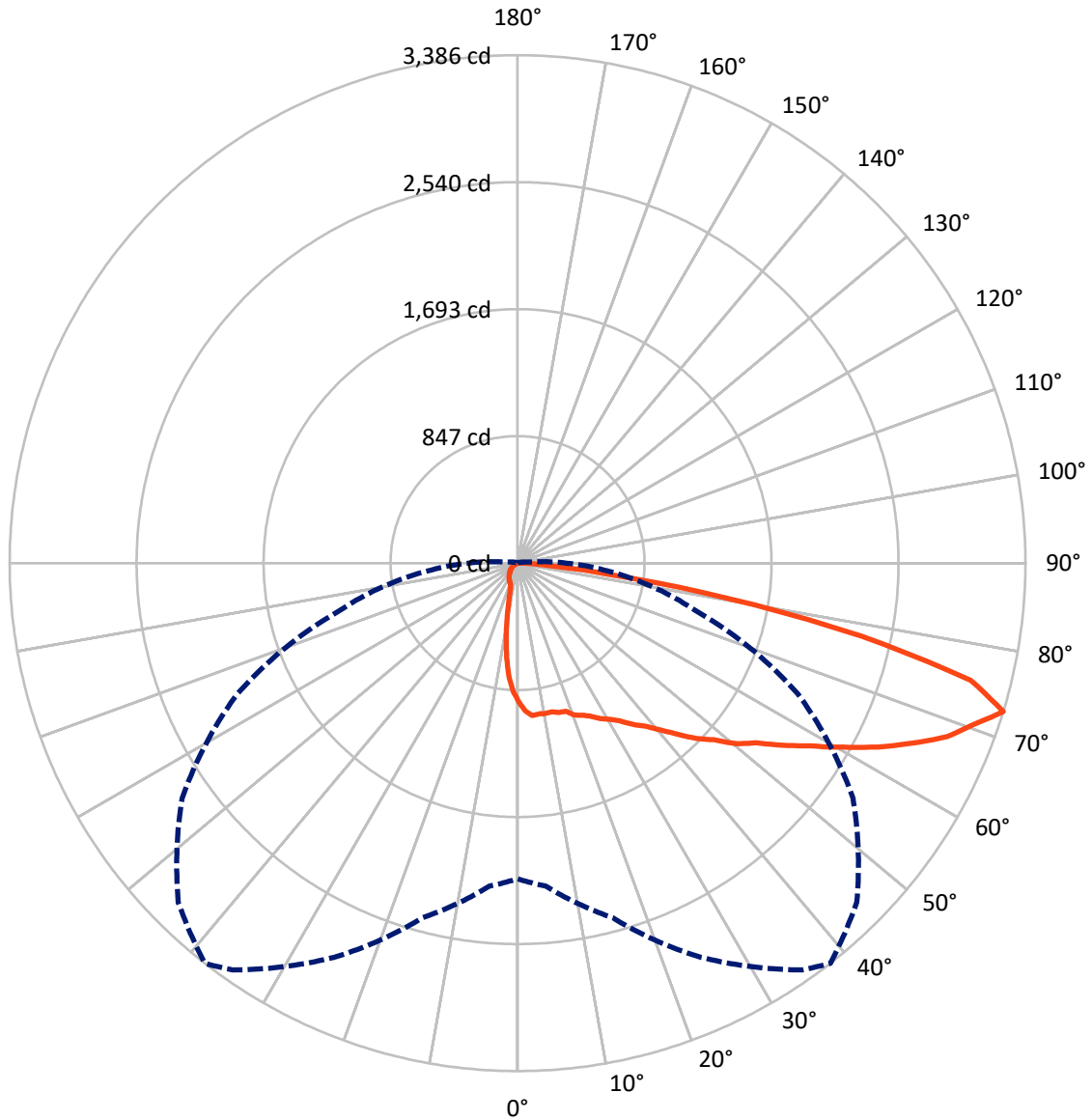
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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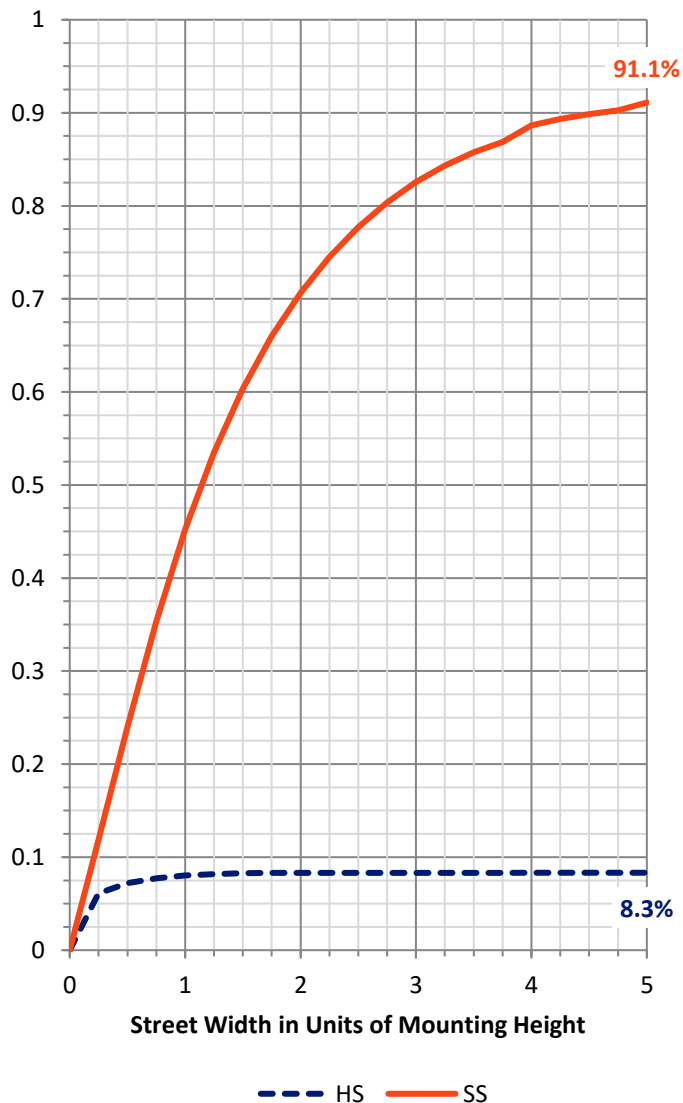
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.4	0.0	427.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4675.9	0.0	4675.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	5103.3	0.0	5103.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.6
10°-20°	197.8	3.9
20°-30°	317.1	6.2
30°-40°	478.7	9.4
40°-50°	728.5	14.3
50°-60°	1025.7	20.1
60°-70°	1252.9	24.6
70°-80°	909.8	17.8
80°-90°	112.0	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°	5103.3	100.0
0°-180°	5103.3	100.0



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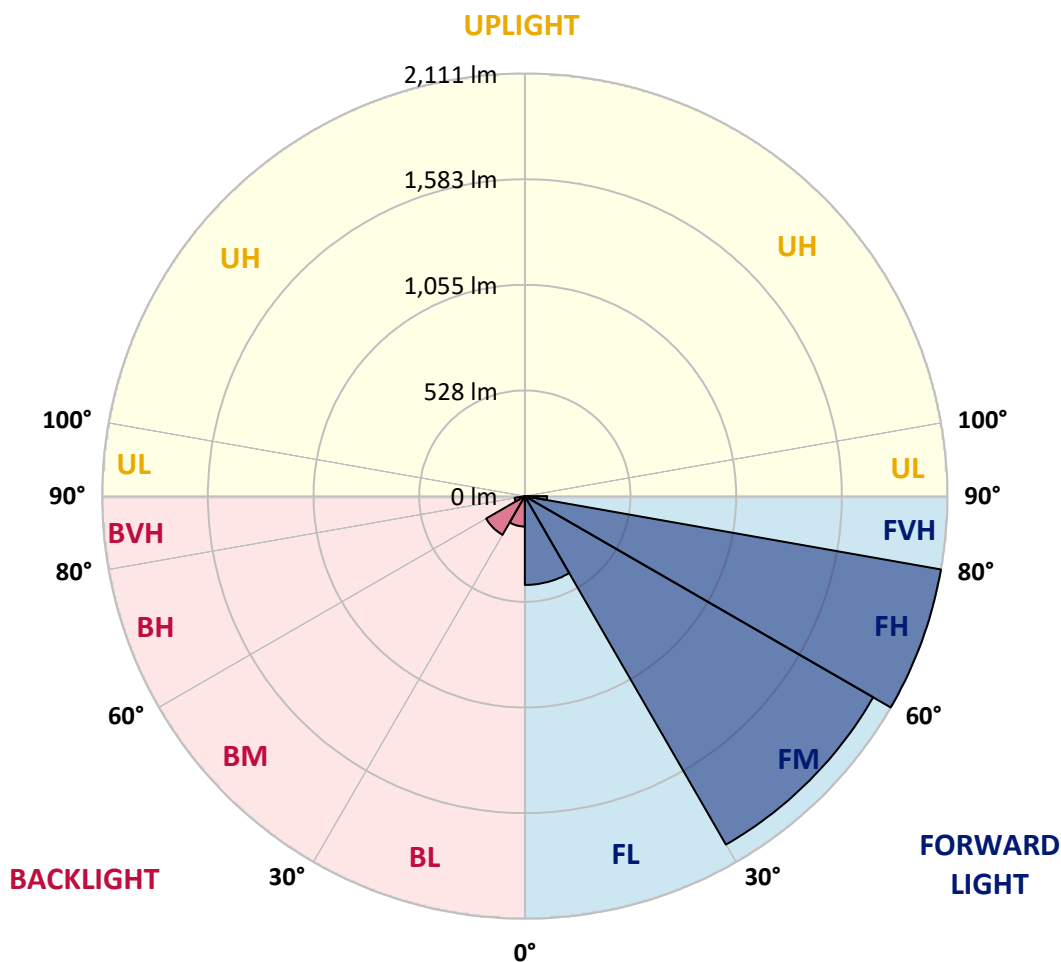
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.9	8.7			
FM (30°-60°)	2009.7	39.4			
FH (60°-80°)	2110.8	41.4			G2/5000
FVH (80°-90°)	111.5	2.2			G2/225
BL (0°-30°)	151.7	3.0	B1/500		
BM (30°-60°)	223.3	4.4	B1/1000		
BH (60°-80°)	51.8	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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	1013.8	1013.8	1023.4	1013.8	1010.2	987.5	988.7	976.7	964.8	948.0	932.4
5°	1025.8	1034.2	1040.2	1031.8	1018.6	1021.0	1029.4	1006.7	974.3	954.0	919.3
7.5°	1021.0	1039.0	1034.2	1029.4	1021.0	1015.0	1003.1	993.5	977.9	958.8	918.1
10°	1017.4	1023.4	1024.6	1021.0	1003.1	1019.8	1006.7	991.1	971.9	949.2	898.9
12.5°	1004.3	1004.3	1015.0	1006.7	1009.1	1017.4	1011.4	1007.9	987.5	968.4	924.1
15°	989.9	994.7	1011.4	1024.6	1036.6	1033.0	1029.4	1018.6	1000.7	979.1	932.4
17.5°	993.5	995.9	1022.2	1046.2	1040.2	1037.8	1056.9	1034.2	1016.2	992.3	939.6
20°	1006.7	1013.8	1043.8	1074.9	1080.9	1080.9	1073.7	1060.5	1035.4	1003.1	952.8
22.5°	1019.8	1022.2	1071.3	1110.8	1116.8	1101.2	1107.2	1068.9	1045.0	1027.0	966.0
25°	1070.1	1065.3	1118.0	1149.1	1145.5	1129.9	1124.0	1090.4	1080.9	1048.6	994.7
27.5°	1138.3	1118.0	1169.4	1188.6	1169.4	1174.2	1157.5	1121.6	1101.2	1082.1	1007.9
30°	1180.2	1192.2	1219.7	1238.9	1206.6	1207.7	1199.4	1159.9	1128.7	1133.5	1052.1
32.5°	1244.9	1253.2	1273.6	1282.0	1256.8	1254.4	1246.1	1214.9	1192.2	1187.4	1112.0
35°	1314.3	1329.8	1331.0	1333.4	1310.7	1320.3	1308.3	1264.0	1276.0	1284.4	1183.8
37.5°	1382.5	1368.1	1392.1	1402.9	1377.7	1377.7	1381.3	1351.4	1372.9	1398.1	1285.6
40°	1408.8	1414.8	1456.7	1448.3	1478.3	1460.3	1473.5	1466.3	1484.3	1541.7	1429.2
42.5°	1436.4	1443.6	1499.8	1515.4	1551.3	1557.3	1576.4	1577.6	1630.3	1724.8	1566.8
45°	1489.0	1477.1	1553.7	1592.0	1650.6	1667.4	1690.1	1709.3	1791.9	1903.2	1723.6
47.5°	1536.9	1520.2	1607.5	1684.1	1756.0	1759.6	1821.8	1842.1	1940.3	2067.2	1879.3
50°	1603.9	1609.9	1647.0	1778.7	1851.7	1893.6	1936.7	2003.7	2112.7	2247.9	1991.8
52.5°	1673.4	1667.4	1729.6	1858.9	1973.8	1989.4	2086.3	2161.7	2280.2	2382.0	2042.0
55°	1758.4	1765.5	1789.5	1959.5	2105.5	2142.6	2251.5	2330.5	2459.8	2439.4	2058.8
57.5°	1843.3	1836.2	1890.0	2072.0	2270.7	2298.2	2443.0	2489.7	2577.1	2477.7	2016.9
60°	1927.1	1940.3	1963.0	2198.8	2451.4	2492.1	2607.0	2631.0	2650.1	2495.7	1984.6
62.5°	2022.9	1991.8	2062.4	2332.9	2614.2	2699.2	2790.2	2695.6	2678.8	2463.4	1910.4
65°	2070.8	2080.3	2172.5	2486.1	2830.9	2893.1	2905.1	2783.0	2696.8	2391.6	1841.0
67.5°	2145.0	2158.1	2275.5	2642.9	3053.5	3088.2	3045.1	2862.0	2681.2	2298.2	1590.8
70°	2154.6	2186.9	2413.1	2806.9	3193.5	3223.5	3189.9	2914.6	2555.5	1930.7	1177.8
72.5°	2104.3	2161.7	2446.6	2900.3	3310.8	3386.2	3198.3	2729.1	2060.0	1231.7	603.3
75°	1589.6	1637.5	2239.5	2761.4	3102.6	3120.5	2808.1	2082.7	1173.0	420.1	154.4
77.5°	823.5	906.1	1495.0	2110.3	2364.0	2344.9	1954.7	1226.9	403.4	110.1	62.2
80°	472.8	493.2	653.5	1185.0	1486.6	1413.6	1080.9	529.1	177.2	55.1	40.7
82.5°	233.4	262.1	351.9	530.3	743.3	611.7	405.8	317.2	99.3	29.9	35.9
85°	50.3	52.7	179.5	253.8	301.6	198.7	138.8	266.9	35.9	18.0	34.7
87.5°	35.9	34.7	50.3	113.7	83.8	51.5	82.6	140.0	8.4	8.4	7.2
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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	922.9	912.1	900.1	877.4	871.4	867.8	847.5	846.3	842.7	834.3	830.7
5°	897.7	879.8	857.0	833.1	813.9	779.2	737.3	715.8	689.5	690.7	682.3
7.5°	894.1	860.6	828.3	778.0	717.0	652.4	587.7	545.8	515.9	497.9	501.5
10°	877.4	852.2	799.6	706.2	608.1	509.9	427.3	365.1	329.2	301.6	310.0
12.5°	884.6	835.5	761.3	636.8	496.7	375.9	272.9	213.1	186.7	177.2	179.5
15°	879.8	835.5	738.5	561.4	390.2	255.0	177.2	158.0	153.2	153.2	150.8
17.5°	894.1	845.1	700.2	487.2	280.1	170.0	152.0	148.4	144.8	144.8	144.8
20°	914.5	849.9	673.9	404.6	197.5	149.6	142.4	140.0	138.8	138.8	137.7
22.5°	915.7	845.1	624.8	313.6	152.0	141.2	135.3	134.1	134.1	131.7	131.7
25°	922.9	849.9	572.2	235.8	141.2	132.9	128.1	126.9	128.1	126.9	125.7
27.5°	940.8	858.2	519.5	172.4	132.9	125.7	122.1	120.9	120.9	120.9	118.5
30°	963.6	858.2	460.8	142.4	125.7	118.5	114.9	113.7	112.5	112.5	112.5
32.5°	1011.4	885.8	389.0	126.9	116.1	110.1	106.5	106.5	105.3	105.3	104.1
35°	1071.3	904.9	316.0	117.3	107.7	101.7	98.2	98.2	97.0	97.0	95.8
37.5°	1145.5	952.8	241.8	110.1	99.3	93.4	89.8	89.8	89.8	88.6	88.6
40°	1250.8	1001.9	179.5	100.5	91.0	85.0	82.6	81.4	80.2	80.2	77.8
42.5°	1363.4	1077.3	134.1	93.4	83.8	79.0	75.4	71.8	71.8	68.2	68.2
45°	1485.4	1143.1	108.9	85.0	76.6	70.6	67.0	64.6	61.0	58.7	58.7
47.5°	1605.1	1183.8	95.8	75.4	69.4	64.6	61.0	56.3	51.5	50.3	49.1
50°	1702.1	1195.8	85.0	68.2	63.4	58.7	53.9	47.9	43.1	40.7	39.5
52.5°	1702.1	1129.9	76.6	61.0	57.5	52.7	46.7	39.5	33.5	31.1	29.9
55°	1702.1	1025.8	68.2	56.3	51.5	47.9	39.5	32.3	26.3	22.7	21.5
57.5°	1677.0	900.1	61.0	50.3	45.5	40.7	33.5	25.1	19.2	15.6	15.6
60°	1607.5	768.5	52.7	44.3	39.5	33.5	26.3	18.0	12.0	8.4	8.4
62.5°	1519.0	611.7	45.5	37.1	32.3	27.5	20.3	12.0	4.8	2.4	2.4
65°	1364.6	451.3	39.5	31.1	25.1	20.3	13.2	4.8	0.0	0.0	0.0
67.5°	1126.4	301.6	31.1	25.1	21.5	14.4	8.4	1.2	0.0	0.0	0.0
70°	792.4	171.2	23.9	18.0	15.6	9.6	2.4	0.0	0.0	0.0	0.0
72.5°	325.6	75.4	16.8	13.2	10.8	4.8	0.0	0.0	0.0	0.0	0.0
75°	88.6	33.5	10.8	7.2	6.0	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	51.5	22.7	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.7	10.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.7	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	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)