

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: P672334

Luminaire Tested: **CCP-SA-1D-850-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672334  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-850-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

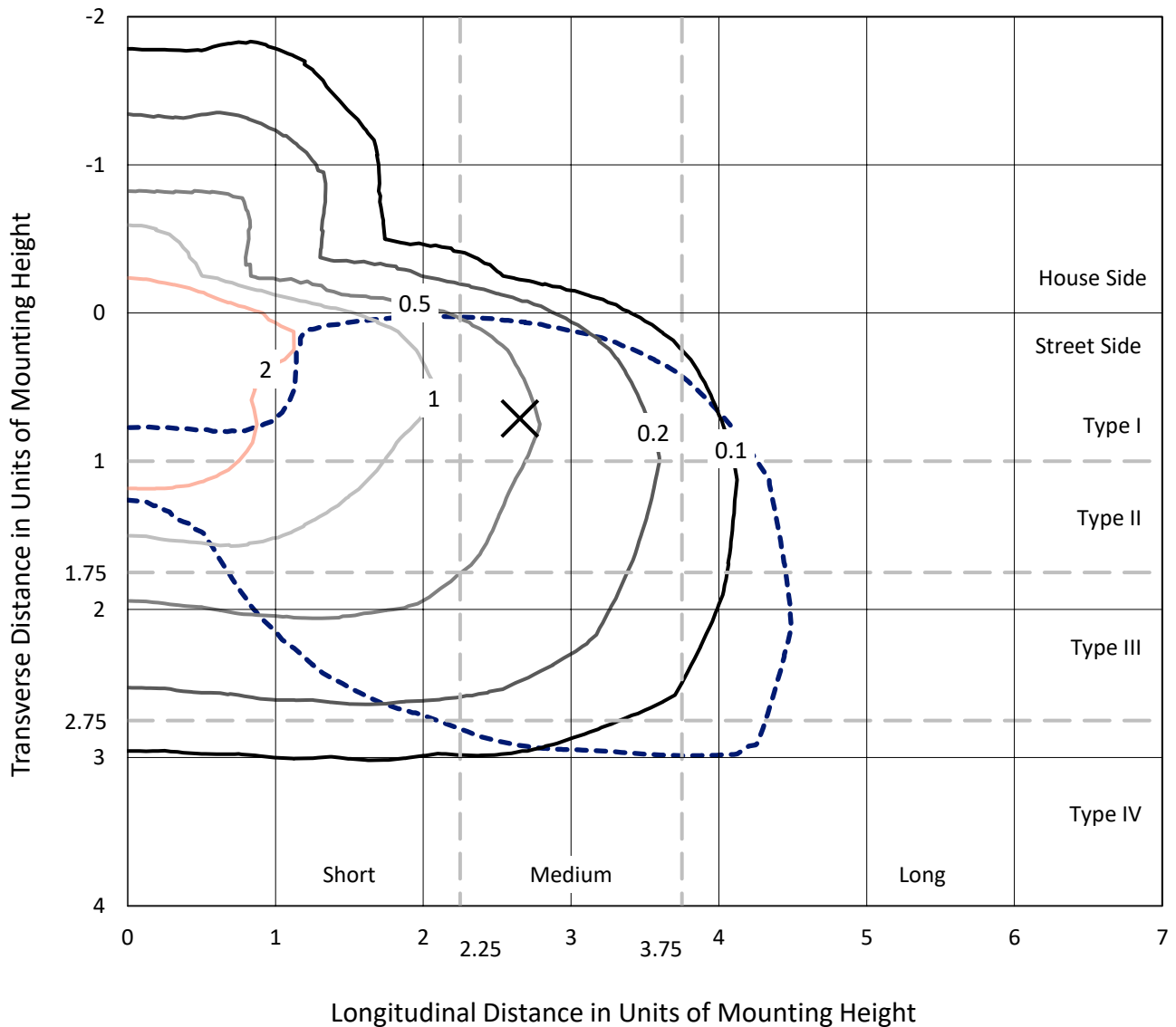
Lumens per Lamp: N/A  
Luminaire Lumens: 4946.1 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

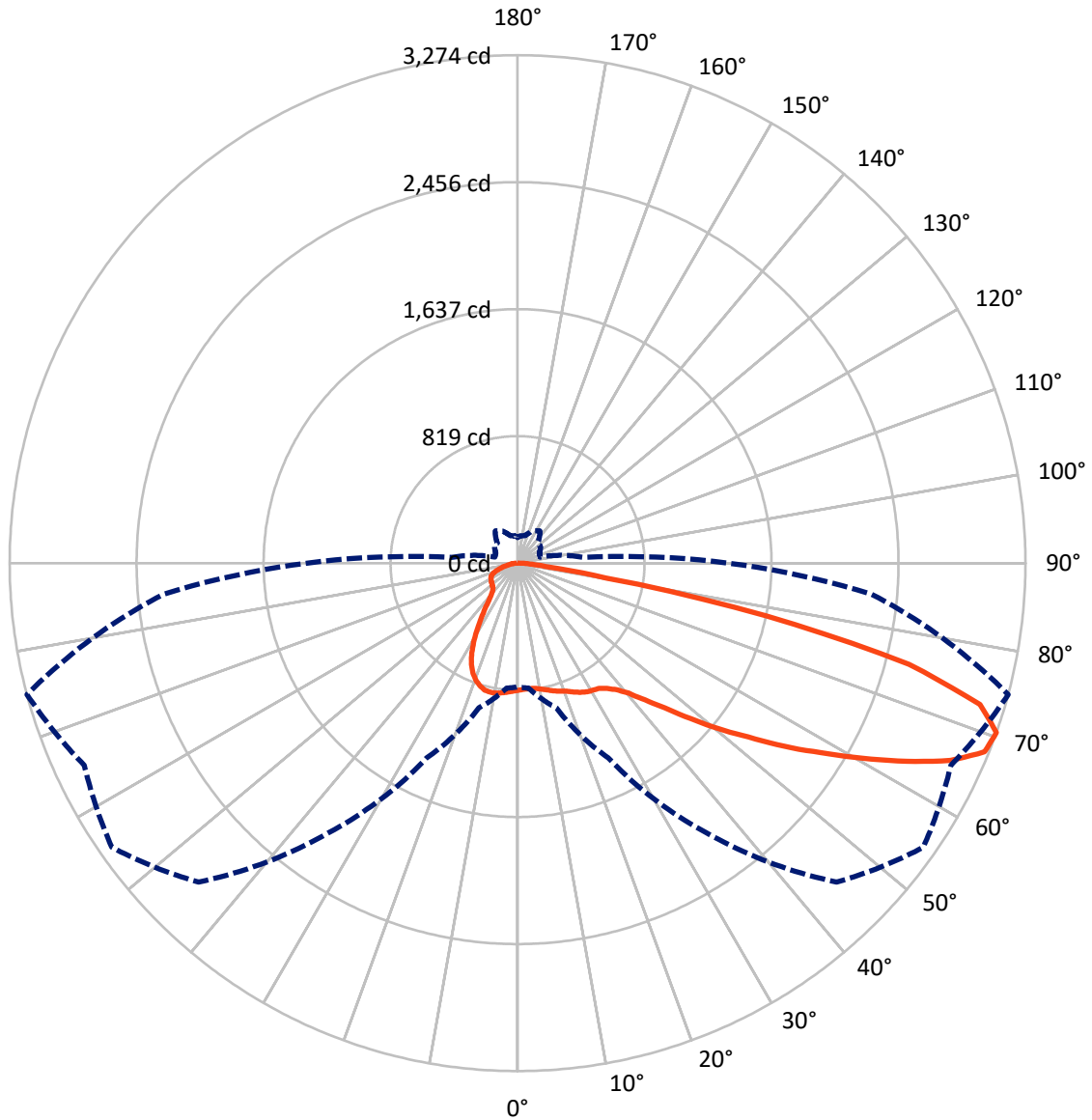
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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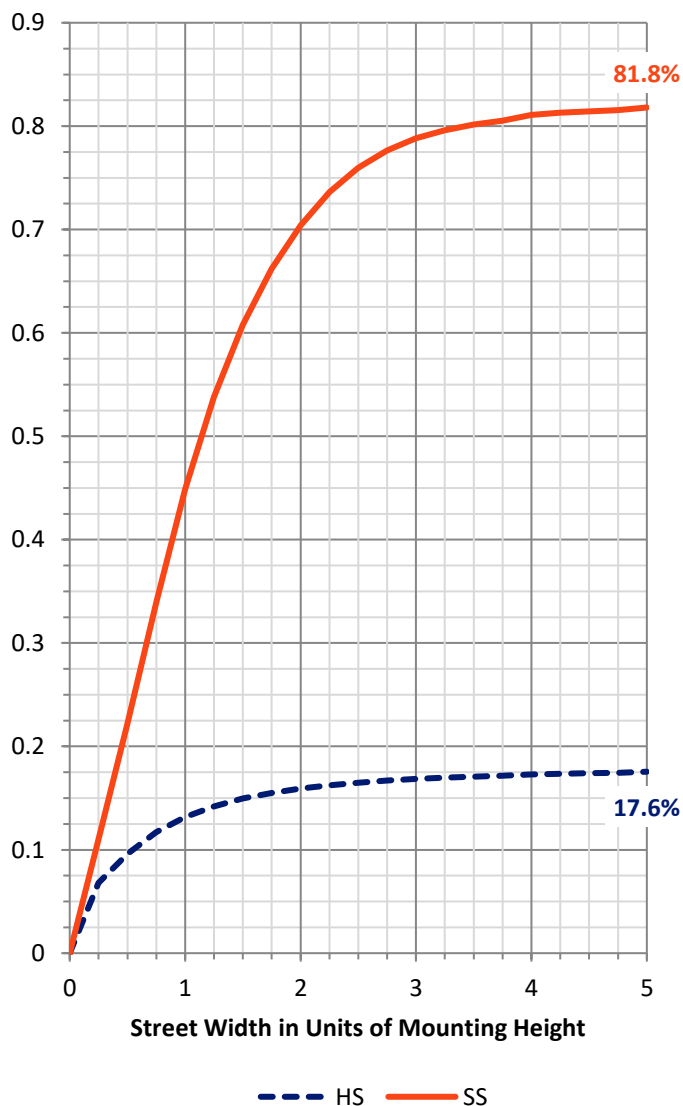
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	880.0	0.0	880.0
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	4066.1	0.0	4066.1
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4946.1	0.0	4946.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.5
10°-20°	196.4	4.0
20°-30°	330.9	6.7
30°-40°	502.6	10.2
40°-50°	720.1	14.6
50°-60°	954.7	19.3
60°-70°	1194.7	24.2
70°-80°	872.4	17.6
80°-90°	100.6	2.0
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°	4946.1	100.0
0°-180°	4946.1	100.0



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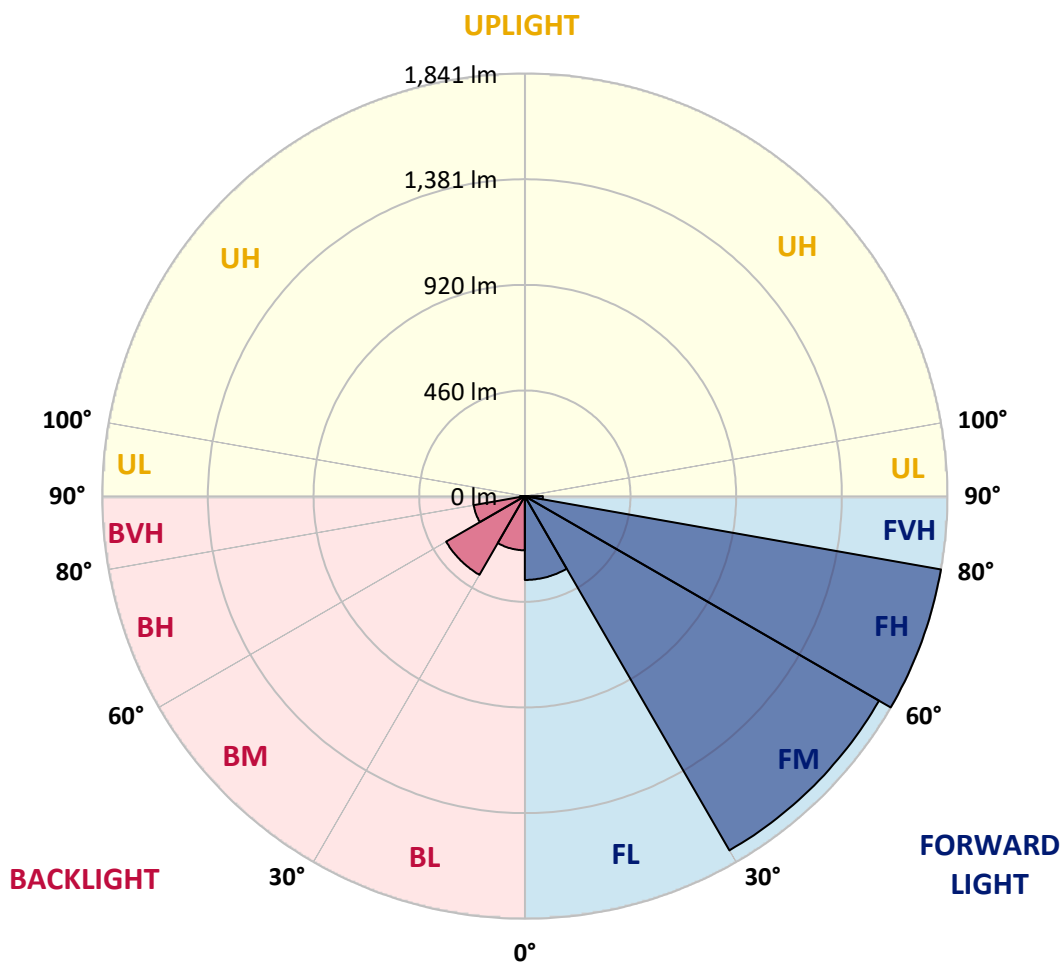
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.1	7.4			
FM (30°-60°)	1781.7	36.0			
FH (60°-80°)	1840.8	37.2			G2/5000
FVH (80°-90°)	78.5	1.6			G1/100
BL (0°-30°)	235.9	4.8	B1/500		
BM (30°-60°)	395.6	8.0	B1/1000		
BH (60°-80°)	226.4	4.6	B1/500		G1/500
BVH (80°-90°)	22.1	0.4			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	774.5	778.7	782.6	786.6	789.8	798.3	800.1	809.3	811.8	814.0	816.8
5°	731.0	734.2	738.1	744.6	751.3	766.6	777.3	797.6	809.0	812.5	822.5
7.5°	707.5	708.6	713.9	719.3	727.1	742.1	756.7	788.3	811.1	815.0	836.4
10°	690.5	691.9	696.9	704.3	712.2	726.0	744.2	781.9	818.9	825.0	855.2
12.5°	684.4	683.7	689.4	694.4	705.4	722.8	741.7	782.3	829.6	838.2	882.6
15°	708.6	704.0	707.5	705.8	709.3	726.4	748.8	790.1	842.8	853.5	911.1
17.5°	762.0	758.1	755.6	740.3	730.3	739.9	761.3	801.1	856.7	868.1	936.7
20°	841.7	830.7	821.4	795.8	768.0	764.8	779.8	812.2	869.8	880.9	963.8
22.5°	932.5	923.6	908.6	863.8	820.7	799.4	803.3	832.5	889.1	901.2	994.8
25°	1047.1	1046.7	1016.1	955.6	890.5	847.4	839.2	864.9	910.8	922.5	1020.4
27.5°	1177.7	1168.8	1132.5	1054.5	972.7	906.8	887.6	897.9	928.2	940.3	1041.0
30°	1289.4	1290.5	1253.5	1168.4	1060.2	964.9	928.6	921.8	939.6	951.7	1060.2
32.5°	1409.0	1403.0	1369.2	1281.6	1154.9	1027.1	954.9	938.9	951.3	962.7	1086.9
35°	1521.5	1514.7	1485.5	1391.2	1259.2	1095.8	990.5	965.6	979.1	991.6	1119.7
37.5°	1628.6	1629.7	1596.6	1506.5	1360.3	1177.0	1043.2	1005.8	1020.4	1034.3	1169.5
40°	1722.2	1716.9	1691.3	1610.1	1465.3	1259.5	1102.6	1060.6	1089.1	1101.9	1232.5
42.5°	1752.1	1751.8	1761.7	1711.9	1575.6	1357.8	1176.6	1146.0	1186.2	1205.5	1309.7
45°	1726.1	1734.0	1791.6	1790.2	1685.9	1470.6	1277.7	1249.9	1308.0	1329.7	1404.0
47.5°	1700.5	1712.3	1790.6	1835.0	1784.9	1594.8	1401.9	1381.3	1464.6	1495.9	1501.9
50°	1663.1	1674.2	1767.4	1841.5	1845.4	1720.4	1562.8	1536.8	1643.9	1676.0	1608.3
52.5°	1621.5	1630.0	1726.5	1836.8	1874.2	1818.7	1720.4	1713.0	1836.1	1862.1	1716.5
55°	1391.6	1427.9	1666.3	1826.9	1894.1	1893.8	1873.8	1898.4	2045.7	2084.5	1837.2
57.5°	1259.5	1278.8	1496.9	1821.2	1931.5	1963.2	2032.2	2084.9	2269.6	2304.5	1970.3
60°	1216.5	1233.6	1411.9	1814.4	2005.9	2071.7	2187.0	2272.5	2510.2	2552.9	2119.1
62.5°	1177.3	1198.0	1377.4	1760.7	2095.9	2243.6	2371.8	2475.3	2764.0	2814.5	2267.1
65°	1097.6	1112.2	1314.0	1715.5	2181.3	2488.8	2638.3	2698.8	3009.9	3066.8	2365.3
67.5°	959.9	973.8	1171.3	1611.5	2236.9	2744.0	2929.8	2930.2	3199.9	3246.6	2386.0
70°	797.9	808.6	965.6	1385.2	2121.2	2907.7	3192.8	3081.4	3253.7	3274.0	2287.8
72.5°	570.5	579.8	707.2	1023.9	1739.3	2775.0	3252.6	3075.0	3123.4	3117.0	2008.4
75°	351.6	369.4	433.1	625.0	1080.9	2183.5	2927.3	2786.4	2622.7	2604.9	1512.2
77.5°	229.2	238.5	292.9	368.7	476.9	1253.5	2223.3	2089.2	1656.0	1635.4	812.9
80°	137.7	153.0	191.8	231.7	216.0	479.4	1269.5	1037.8	585.1	578.7	249.8
82.5°	74.0	87.9	135.2	143.4	121.4	169.4	459.8	337.4	187.2	185.1	93.6
85°	58.7	65.5	97.2	90.8	68.7	85.8	179.4	140.6	96.1	94.0	35.2
87.5°	35.6	44.8	73.7	61.2	34.2	31.0	82.2	66.6	45.2	42.0	13.9
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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	822.1	823.9	825.7	822.1	823.6	821.8	821.8	821.8	817.2	815.7	820.0
5°	830.0	832.5	833.9	822.9	816.1	806.1	797.9	785.5	778.4	773.7	773.7
7.5°	846.0	848.8	842.4	817.9	794.0	767.3	739.9	717.1	700.8	693.7	695.8
10°	869.5	870.5	849.2	804.0	753.1	703.6	664.8	634.6	614.3	604.0	602.5
12.5°	896.9	892.3	850.6	773.4	697.9	631.4	584.0	544.9	518.9	508.9	504.0
15°	923.9	912.9	845.3	736.7	635.3	555.2	494.7	457.7	441.7	437.1	435.3
17.5°	948.1	927.5	827.5	684.1	562.7	466.2	421.7	408.6	410.4	414.6	416.4
20°	970.2	938.5	801.9	621.4	471.9	396.8	385.8	397.9	407.9	414.3	415.3
22.5°	994.4	949.2	766.3	545.2	397.5	364.8	378.0	391.9	401.8	408.2	409.3
25°	1012.9	948.8	716.1	454.8	350.6	356.3	371.9	384.4	391.9	396.5	396.1
27.5°	1024.7	940.3	650.2	380.5	332.1	350.2	365.2	373.3	377.6	381.2	380.8
30°	1028.2	923.9	567.3	325.7	323.5	344.5	355.9	360.9	364.1	367.7	367.7
32.5°	1035.3	898.7	475.8	295.0	317.1	338.8	345.6	349.5	347.0	338.1	336.3
35°	1043.2	870.5	389.4	280.8	311.1	334.9	341.3	331.0	303.9	300.4	299.0
37.5°	1058.5	844.6	316.0	270.8	309.6	337.0	342.4	301.1	278.3	267.3	265.5
40°	1084.4	818.6	266.9	263.7	311.4	346.3	328.1	286.9	249.1	228.1	224.6
42.5°	1118.6	786.9	239.2	260.2	316.4	361.2	323.2	266.6	225.3	211.1	208.9
45°	1158.1	744.9	226.0	259.5	322.5	368.7	324.6	250.2	214.6	203.6	202.9
47.5°	1199.0	703.6	220.3	258.7	329.9	365.5	305.0	245.2	210.3	207.1	209.3
50°	1243.2	656.6	215.7	257.0	336.0	365.5	294.3	244.2	211.8	218.9	226.0
52.5°	1284.5	617.1	210.3	251.6	338.5	359.1	291.1	248.1	213.9	212.1	214.3
55°	1334.6	596.9	207.5	244.2	333.8	339.5	287.2	258.7	215.7	201.1	201.1
57.5°	1391.9	592.6	203.2	234.2	318.9	312.5	286.9	265.1	211.1	197.5	195.0
60°	1461.0	601.8	197.9	221.7	300.7	291.5	284.4	265.1	203.6	191.5	192.5
62.5°	1516.9	600.8	194.7	210.7	276.5	269.8	279.7	261.6	200.7	190.8	190.4
65°	1530.0	578.0	185.4	196.5	246.6	243.4	274.8	252.7	196.8	186.9	184.0
67.5°	1485.5	526.4	171.5	177.6	215.0	215.3	265.9	240.9	191.5	184.7	180.1
70°	1359.2	425.7	150.9	154.8	180.8	185.4	252.7	227.1	182.6	175.5	164.4
72.5°	1137.5	306.1	127.1	128.1	143.8	155.9	229.9	208.2	169.4	152.7	140.9
75°	842.1	203.2	103.6	102.1	107.8	126.7	196.5	187.2	152.3	126.7	120.7
77.5°	445.2	120.3	79.7	80.1	76.5	97.2	155.9	162.6	135.2	106.8	100.7
80°	152.3	72.2	57.3	59.8	54.1	69.4	115.7	135.2	115.7	89.0	78.7
82.5°	69.8	44.1	40.9	42.7	38.8	47.0	79.4	102.5	92.2	64.8	52.3
85°	35.2	26.3	26.3	28.8	25.6	24.2	43.8	68.0	67.6	44.5	38.4
87.5°	14.6	12.8	12.1	13.9	12.1	9.3	12.5	24.6	35.6	26.7	17.1
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)