

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: P672224

Luminaire Tested: **CCP-SA-1D-727-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672224  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-727-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

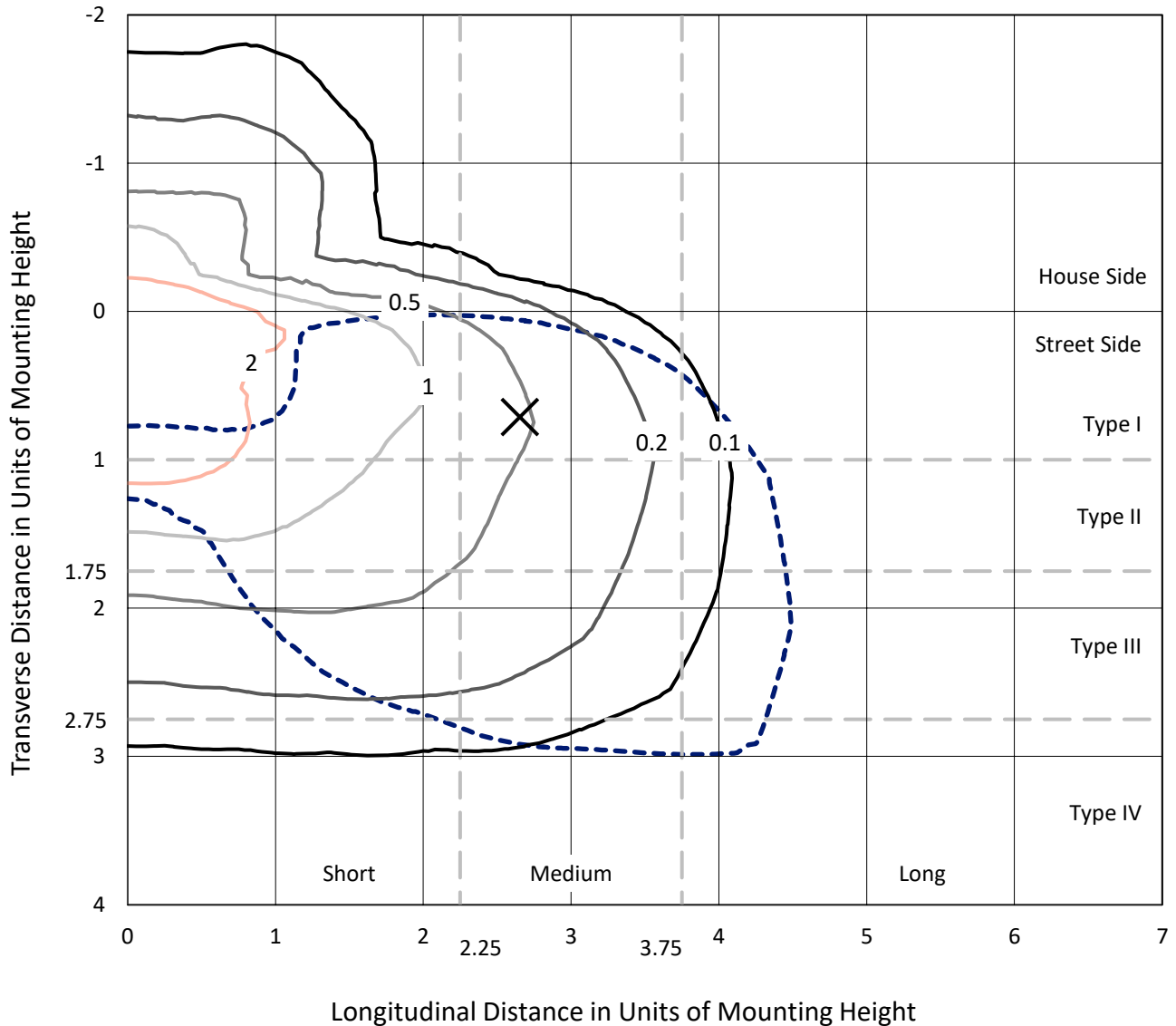
Lumens per Lamp: N/A  
Luminaire Lumens: 4740.3 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

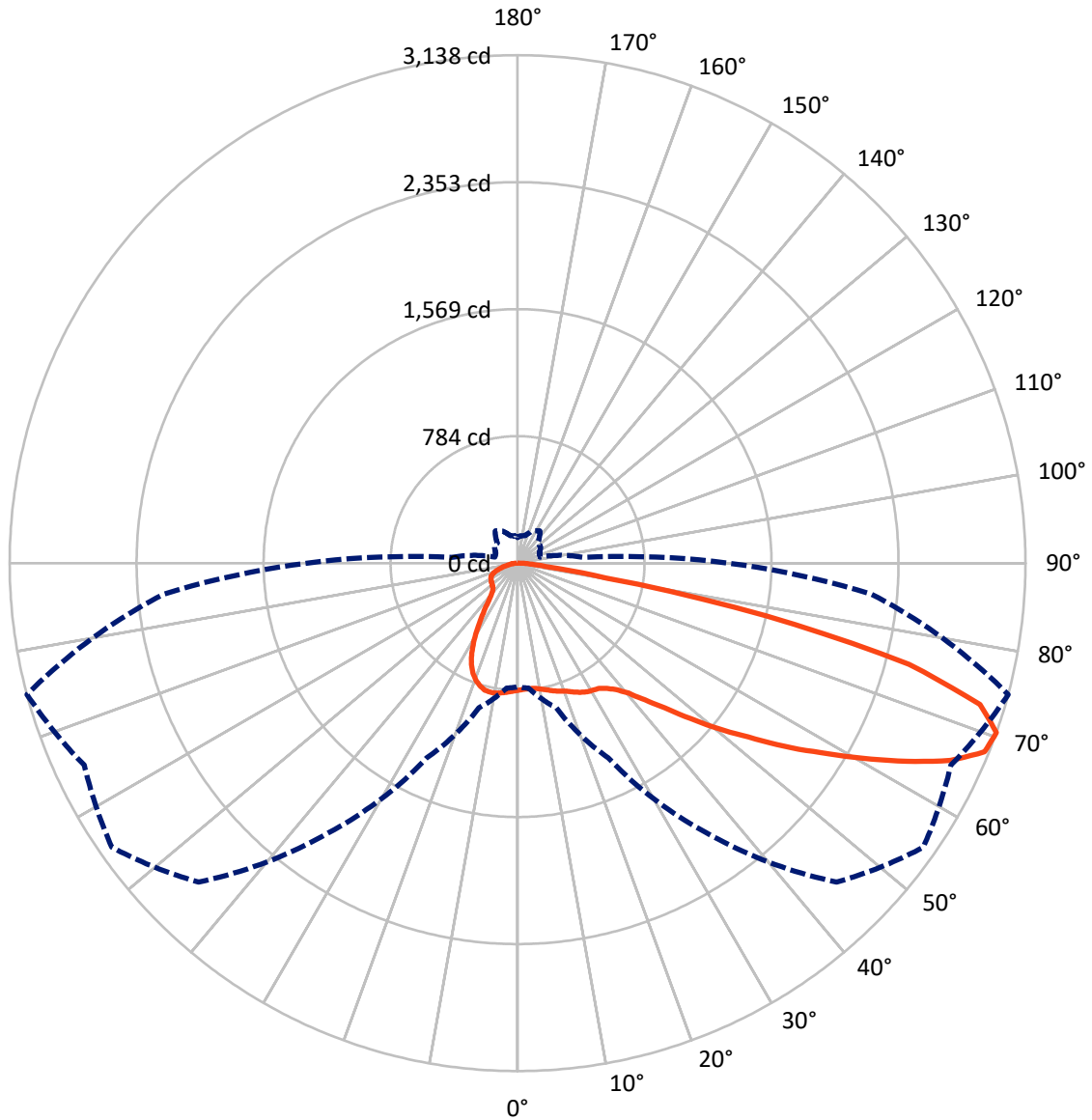
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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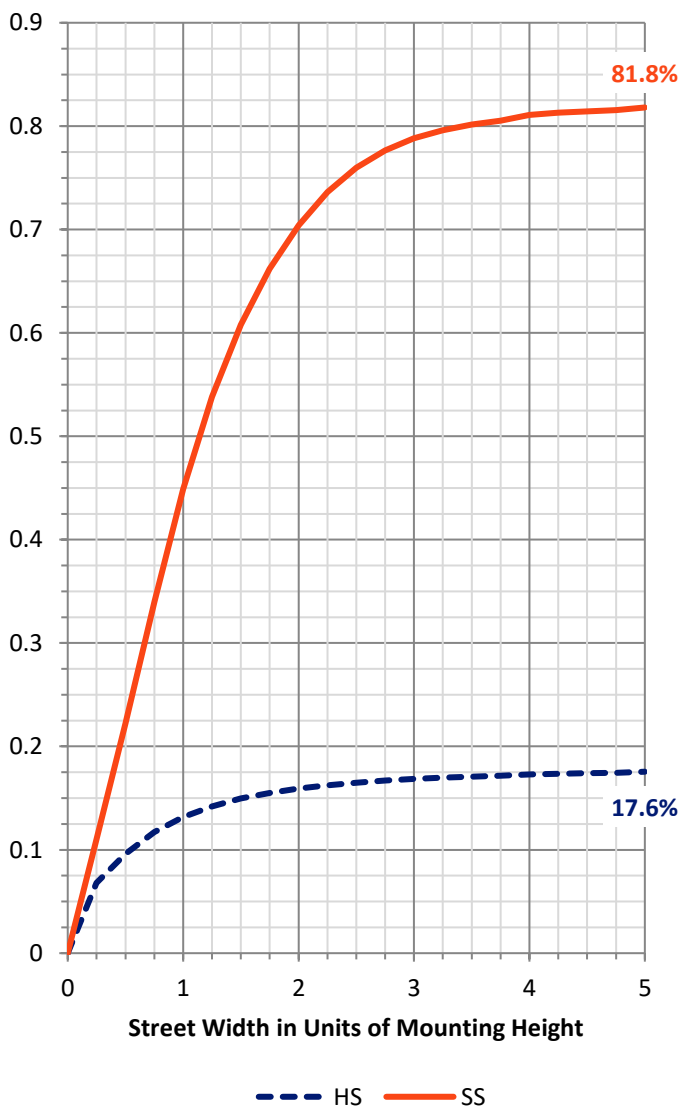
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	843.4	0.0	843.4
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	3897.0	0.0	3897.0
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4740.3	0.0	4740.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.5	1.5
10°-20°	188.3	4.0
20°-30°	317.2	6.7
30°-40°	481.7	10.2
40°-50°	690.1	14.6
50°-60°	915.0	19.3
60°-70°	1145.0	24.2
70°-80°	836.2	17.6
80°-90°	96.4	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°	4740.3	100.0
0°-180°	4740.3	100.0



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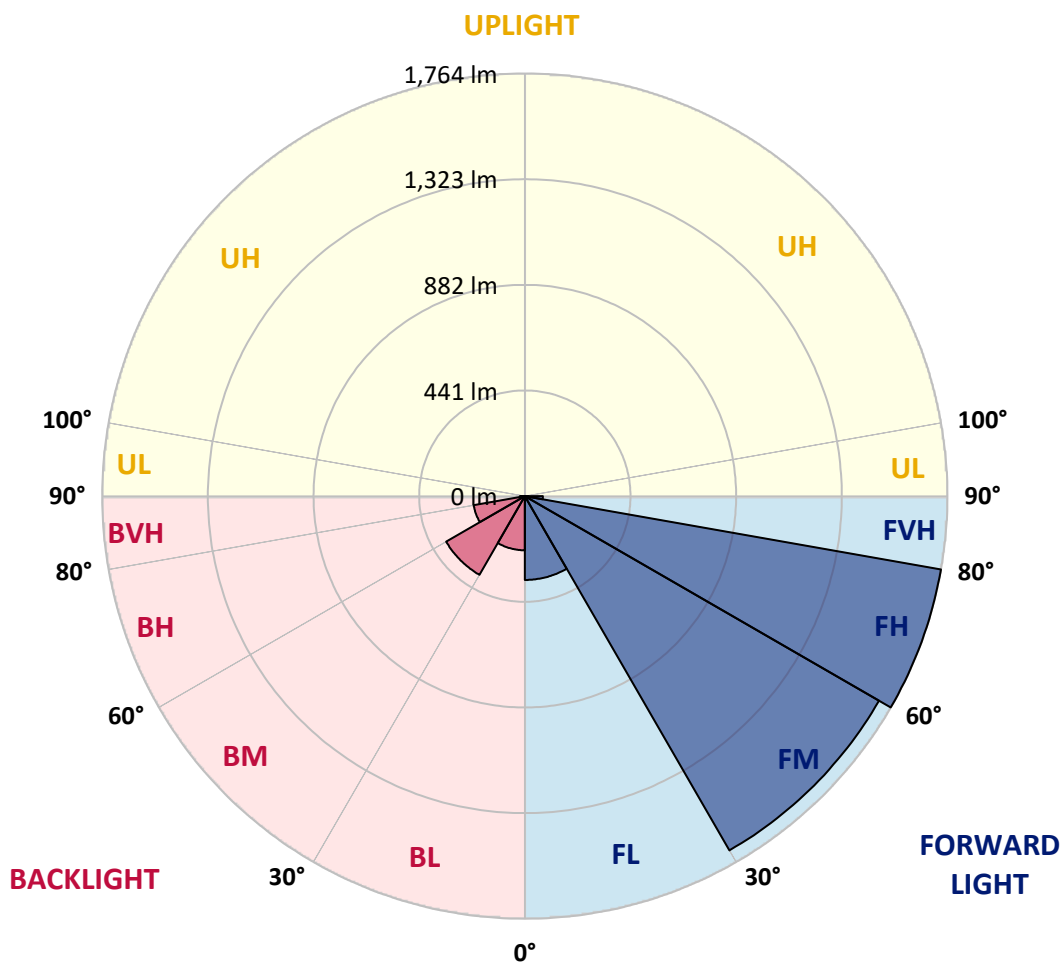
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.9	7.4			
FM (30°-60°)	1707.6	36.0			
FH (60°-80°)	1764.2	37.2			G1/1800
FVH (80°-90°)	75.2	1.6			G1/100
BL (0°-30°)	226.1	4.8	B1/500		
BM (30°-60°)	379.2	8.0	B1/1000		
BH (60°-80°)	216.9	4.6	B1/500		G1/500
BVH (80°-90°)	21.2	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-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	742.2	746.3	750.1	753.8	756.9	765.1	766.8	775.7	778.0	780.1	782.8
5°	700.6	703.7	707.4	713.6	720.1	734.7	745.0	764.4	775.3	778.7	788.3
7.5°	678.1	679.1	684.2	689.4	696.9	711.2	725.2	755.5	777.4	781.1	801.6
10°	661.7	663.1	667.9	675.0	682.5	695.8	713.2	749.4	784.9	790.7	819.7
12.5°	655.9	655.3	660.7	665.5	676.1	692.8	710.9	749.7	795.1	803.3	845.9
15°	679.1	674.7	678.1	676.4	679.8	696.2	717.7	757.2	807.7	818.0	873.2
17.5°	730.3	726.5	724.2	709.5	699.9	709.1	729.6	767.8	821.0	831.9	897.8
20°	806.7	796.1	787.3	762.7	736.1	733.0	747.4	778.4	833.6	844.2	923.7
22.5°	893.7	885.2	870.8	827.8	786.6	766.1	769.9	797.8	852.1	863.7	953.4
25°	1003.5	1003.2	973.8	915.9	853.4	812.2	804.3	828.9	872.9	884.1	977.9
27.5°	1128.7	1120.2	1085.4	1010.7	932.2	869.1	850.7	860.6	889.6	901.2	997.7
30°	1235.8	1236.8	1201.4	1119.8	1016.1	924.7	889.9	883.4	900.5	912.1	1016.1
32.5°	1350.4	1344.6	1312.2	1228.3	1106.9	984.4	915.2	899.8	911.8	922.7	1041.7
35°	1458.2	1451.7	1423.8	1333.4	1206.8	1050.2	949.3	925.4	938.4	950.3	1073.1
37.5°	1560.9	1561.9	1530.2	1443.9	1303.7	1128.0	999.8	963.9	977.9	991.2	1120.9
40°	1650.6	1645.5	1620.9	1543.1	1404.3	1207.2	1056.7	1016.5	1043.8	1056.0	1181.2
42.5°	1679.2	1678.9	1688.4	1640.7	1510.0	1301.3	1127.7	1098.3	1136.9	1155.3	1255.2
45°	1654.3	1661.8	1717.1	1715.7	1615.8	1409.4	1224.5	1197.9	1253.5	1274.3	1345.6
47.5°	1629.8	1641.0	1716.1	1758.7	1710.6	1528.5	1343.6	1323.8	1403.6	1433.6	1439.4
50°	1594.0	1604.5	1693.9	1764.9	1768.6	1648.9	1497.8	1472.9	1575.5	1606.2	1541.4
52.5°	1554.1	1562.2	1654.7	1760.4	1796.2	1743.0	1648.9	1641.7	1759.7	1784.6	1645.1
55°	1333.7	1368.5	1597.0	1750.9	1815.3	1815.0	1795.9	1819.4	1960.6	1997.8	1760.8
57.5°	1207.2	1225.6	1434.7	1745.4	1851.1	1881.5	1947.7	1998.2	2175.2	2208.6	1888.3
60°	1165.9	1182.3	1353.1	1738.9	1922.4	1985.5	2096.1	2177.9	2405.8	2446.7	2030.9
62.5°	1128.4	1148.1	1320.1	1687.4	2008.7	2150.3	2273.1	2372.4	2649.0	2697.4	2172.8
65°	1052.0	1065.9	1259.3	1644.1	2090.6	2385.3	2528.6	2586.6	2884.7	2939.3	2267.0
67.5°	919.9	933.2	1122.6	1544.5	2143.8	2629.9	2807.9	2808.3	3066.8	3111.5	2286.7
70°	764.7	775.0	925.4	1327.6	2033.0	2786.8	3060.0	2953.2	3118.3	3137.8	2192.6
72.5°	546.8	555.7	677.8	981.3	1667.0	2659.6	3117.3	2947.1	2993.5	2987.4	1924.8
75°	337.0	354.1	415.1	599.0	1035.9	2092.6	2805.5	2670.5	2513.6	2496.5	1449.3
77.5°	219.7	228.5	280.7	353.4	457.1	1201.4	2130.9	2002.3	1587.1	1567.4	779.1
80°	132.0	146.7	183.9	222.1	207.0	459.5	1216.7	994.6	560.8	554.6	239.5
82.5°	70.9	84.3	129.6	137.5	116.3	162.4	440.7	323.4	179.4	177.4	89.7
85°	56.3	62.8	93.1	87.0	65.8	82.2	171.9	134.7	92.1	90.1	33.8
87.5°	34.1	43.0	70.6	58.7	32.7	29.7	78.8	63.8	43.3	40.2	13.3
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°	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2	785.2
2.5°	787.9	789.6	791.4	787.9	789.3	787.6	787.6	787.6	783.2	781.8	785.9
5°	795.4	797.8	799.2	788.6	782.1	772.6	764.7	752.8	746.0	741.6	741.6
7.5°	810.8	813.5	807.4	783.8	761.0	735.4	709.1	687.3	671.6	664.8	666.9
10°	833.3	834.3	813.9	770.5	721.8	674.4	637.2	608.2	588.7	578.8	577.5
12.5°	859.6	855.1	815.2	741.2	668.9	605.1	559.7	522.2	497.3	487.8	483.0
15°	885.5	874.9	810.1	706.1	608.9	532.1	474.1	438.7	423.3	418.9	417.2
17.5°	908.7	888.9	793.1	655.6	539.3	446.8	404.2	391.6	393.3	397.4	399.1
20°	929.8	899.5	768.5	595.6	452.3	380.3	369.8	381.3	390.9	397.0	398.1
22.5°	953.0	909.7	734.4	522.6	381.0	349.6	362.2	375.6	385.1	391.2	392.3
25°	970.8	909.4	686.3	435.9	336.0	341.4	356.4	368.4	375.6	380.0	379.6
27.5°	982.0	901.2	623.2	364.6	318.2	335.6	350.0	357.8	361.9	365.3	365.0
30°	985.4	885.5	543.7	312.1	310.1	330.2	341.1	345.9	348.9	352.4	352.4
32.5°	992.3	861.3	456.1	282.8	303.9	324.7	331.2	335.0	332.6	324.0	322.3
35°	999.8	834.3	373.2	269.1	298.1	321.0	327.1	317.2	291.3	287.9	286.5
37.5°	1014.4	809.4	302.9	259.6	296.8	323.0	328.1	288.6	266.7	256.2	254.5
40°	1039.3	784.5	255.8	252.8	298.5	331.9	314.5	274.9	238.8	218.6	215.2
42.5°	1072.1	754.2	229.2	249.3	303.2	346.2	309.7	255.5	215.9	202.3	200.2
45°	1109.9	713.9	216.6	248.7	309.0	353.4	311.1	239.8	205.7	195.1	194.4
47.5°	1149.2	674.4	211.1	248.0	316.2	350.3	292.3	235.0	201.6	198.5	200.6
50°	1191.5	629.3	206.7	246.3	322.0	350.3	282.1	234.0	203.0	209.8	216.6
52.5°	1231.0	591.5	201.6	241.2	324.4	344.2	279.0	237.7	205.0	203.3	205.3
55°	1279.1	572.0	198.9	234.0	320.0	325.4	275.3	248.0	206.7	192.7	192.7
57.5°	1334.0	567.9	194.8	224.4	305.6	299.5	274.9	254.1	202.3	189.3	186.9
60°	1400.2	576.8	189.7	212.5	288.2	279.4	272.5	254.1	195.1	183.5	184.5
62.5°	1453.8	575.8	186.6	201.9	265.0	258.6	268.1	250.7	192.4	182.8	182.5
65°	1466.4	553.9	177.7	188.3	236.4	233.3	263.3	242.2	188.6	179.1	176.3
67.5°	1423.8	504.5	164.4	170.2	206.0	206.4	254.8	230.9	183.5	177.0	172.6
70°	1302.7	408.0	144.6	148.4	173.3	177.7	242.2	217.6	175.0	168.2	157.6
72.5°	1090.2	293.3	121.8	122.8	137.8	149.4	220.4	199.5	162.4	146.3	135.1
75°	807.0	194.8	99.3	97.9	103.4	121.4	188.3	179.4	146.0	121.4	115.6
77.5°	426.7	115.3	76.4	76.7	73.3	93.1	149.4	155.9	129.6	102.3	96.5
80°	146.0	69.2	54.9	57.3	51.8	66.5	110.9	129.6	110.9	85.3	75.4
82.5°	66.9	42.3	39.2	40.9	37.2	45.0	76.1	98.2	88.3	62.1	50.1
85°	33.8	25.2	25.2	27.6	24.6	23.2	42.0	65.2	64.8	42.6	36.8
87.5°	14.0	12.3	11.6	13.3	11.6	8.9	11.9	23.5	34.1	25.6	16.4
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)