

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: P672291

Luminaire Tested: **CCP-SA-1E-827-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672291  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-827-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

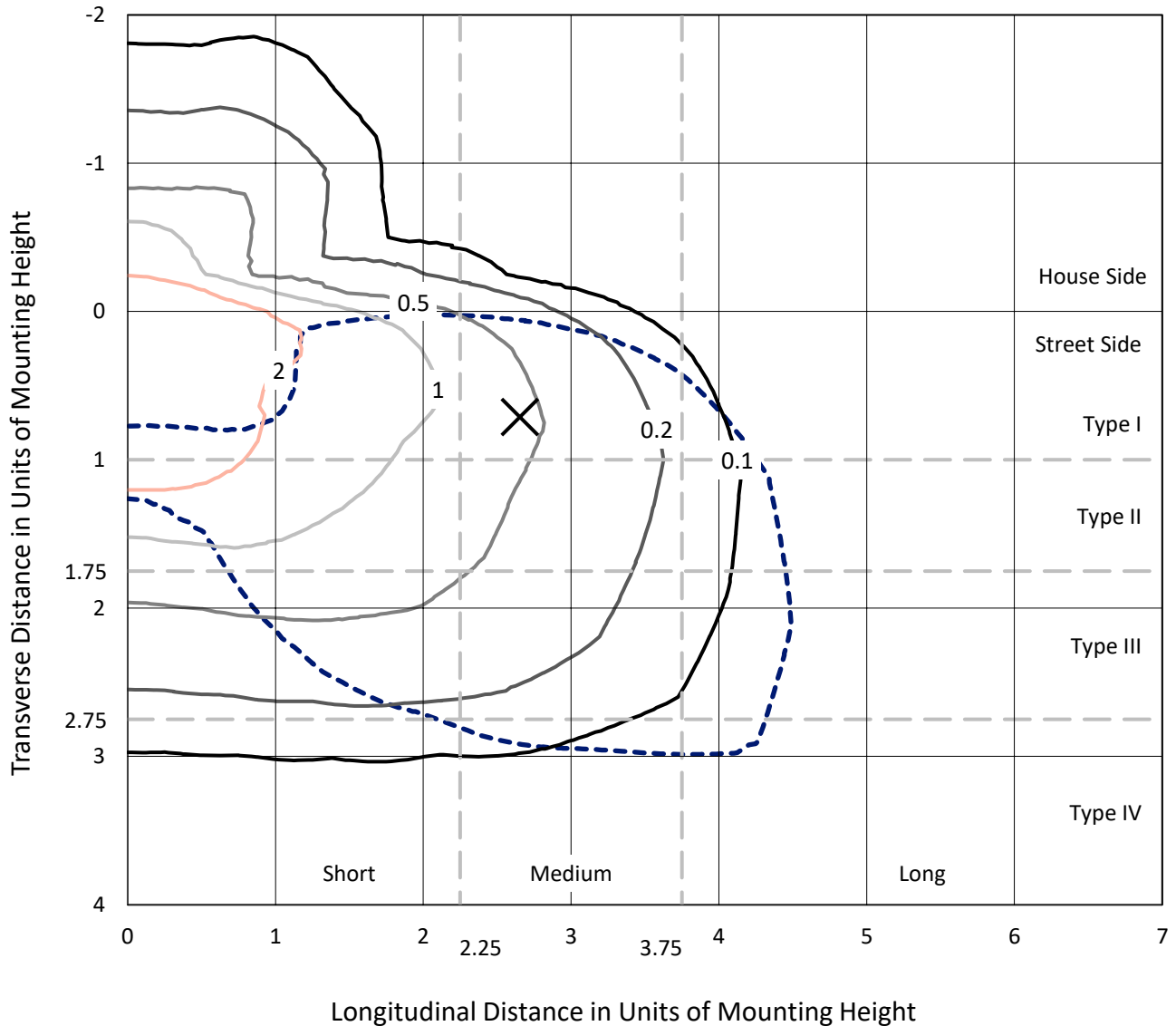
Lumens per Lamp: N/A  
Luminaire Lumens: 5108.2 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

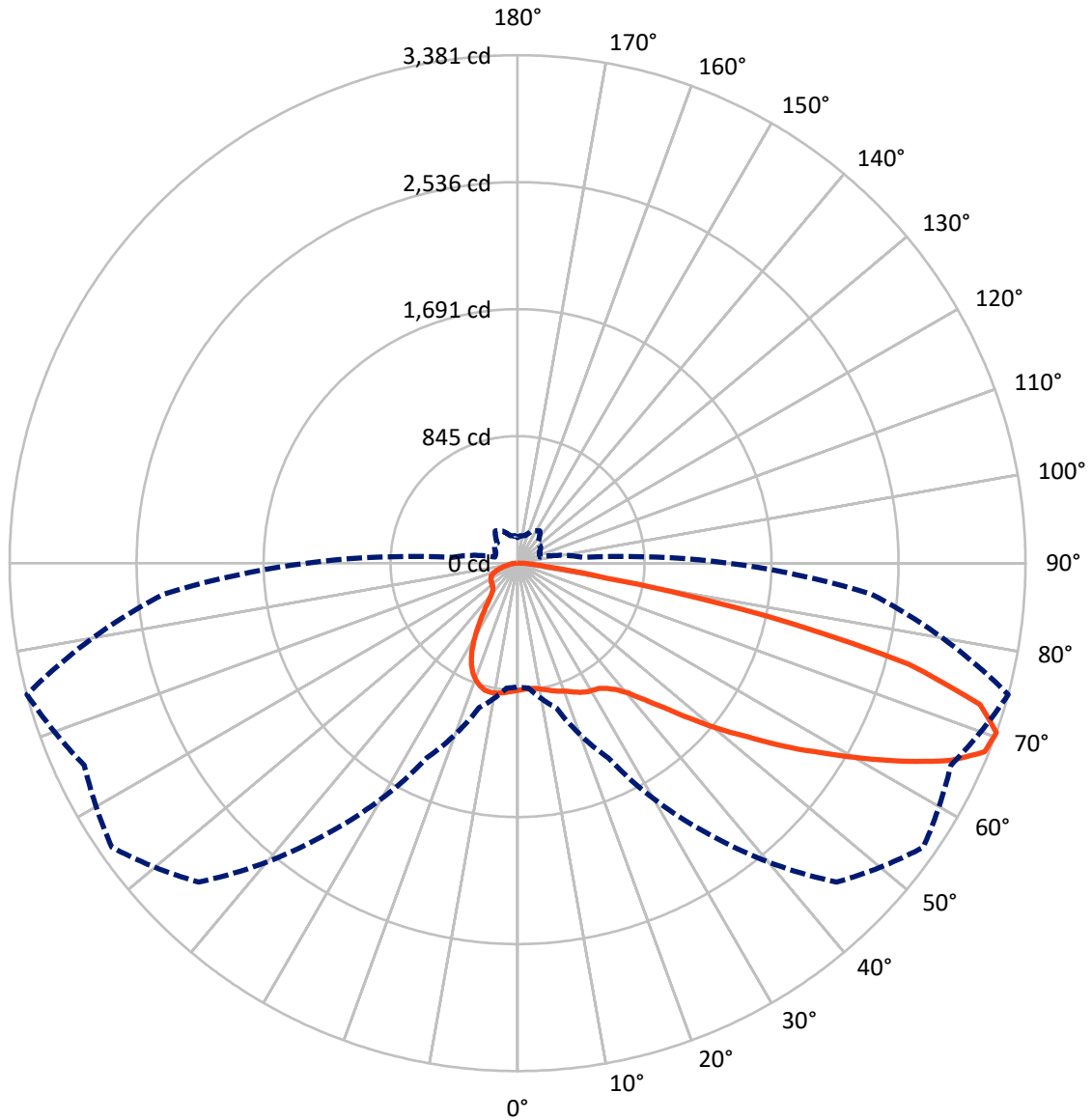
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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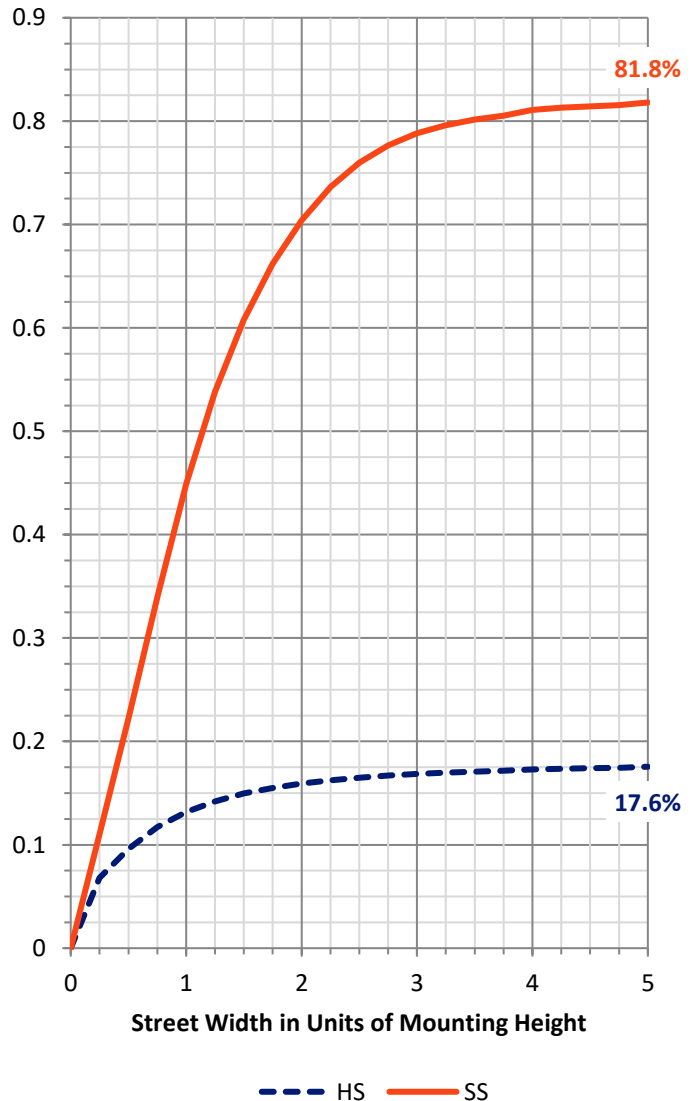
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	908.8	0.0	908.8
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	4199.4	0.0	4199.4
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	5108.2	0.0	5108.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	1.5
10°-20°	202.9	4.0
20°-30°	341.8	6.7
30°-40°	519.1	10.2
40°-50°	743.7	14.6
50°-60°	986.0	19.3
60°-70°	1233.9	24.2
70°-80°	901.0	17.6
80°-90°	103.9	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°	5108.2	100.0
0°-180°	5108.2	100.0



REPORT NUMBER: P672291

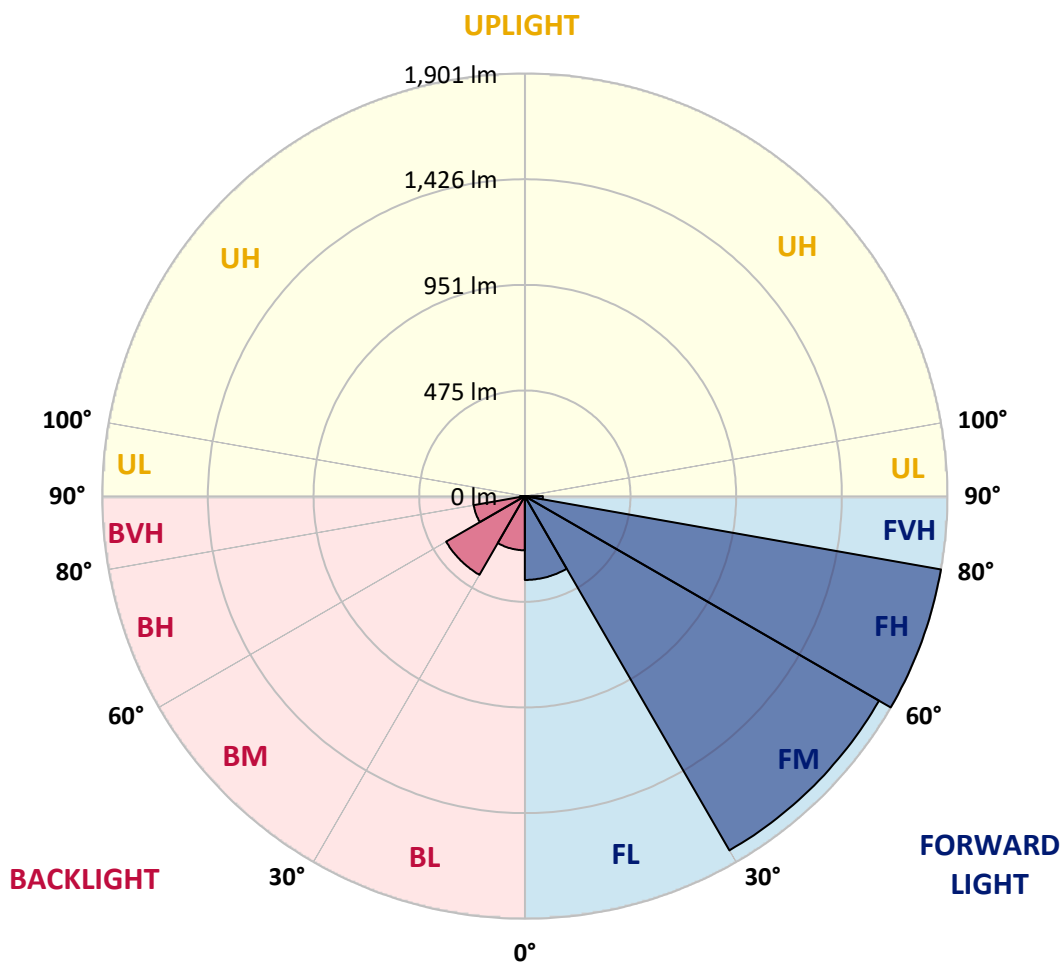
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.0	7.4			
FM (30°-60°)	1840.2	36.0			
FH (60°-80°)	1901.1	37.2			G2/5000
FVH (80°-90°)	81.1	1.6			G1/100
BL (0°-30°)	243.6	4.8	B1/500		
BM (30°-60°)	408.6	8.0	B1/1000		
BH (60°-80°)	233.8	4.6	B1/500		G1/500
BVH (80°-90°)	22.8	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°	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1
2.5°	799.8	804.2	808.3	812.3	815.6	824.5	826.3	835.9	838.4	840.6	843.6
5°	755.0	758.3	762.3	769.0	775.9	791.7	802.8	823.7	835.5	839.2	849.5
7.5°	730.7	731.8	737.3	742.9	750.9	766.4	781.5	814.2	837.7	841.7	863.8
10°	713.1	714.6	719.7	727.4	735.5	749.8	768.6	807.6	845.8	852.0	883.3
12.5°	706.8	706.1	712.0	717.1	728.5	746.5	766.0	807.9	856.8	865.6	911.6
15°	731.8	727.1	730.7	728.9	732.6	750.2	773.4	816.0	870.4	881.4	941.0
17.5°	787.0	782.9	780.4	764.5	754.3	764.2	786.2	827.4	884.7	896.5	967.4
20°	869.3	857.9	848.4	821.9	793.2	789.9	805.3	838.8	898.3	909.7	995.4
22.5°	963.0	953.8	938.4	892.1	847.6	825.6	829.6	859.7	918.2	930.7	1027.4
25°	1081.4	1081.0	1049.4	986.9	919.7	875.2	866.7	893.2	940.6	952.7	1053.8
27.5°	1216.3	1207.1	1169.6	1089.1	1004.6	936.6	916.7	927.4	958.6	971.1	1075.1
30°	1331.7	1332.8	1294.6	1206.7	1095.0	996.5	959.0	952.0	970.4	982.9	1095.0
32.5°	1455.2	1449.0	1414.0	1323.6	1192.8	1060.8	986.2	969.7	982.5	994.3	1122.6
35°	1571.4	1564.4	1534.2	1436.8	1300.5	1131.8	1023.0	997.2	1011.2	1024.1	1156.4
37.5°	1682.0	1683.1	1648.9	1555.9	1404.9	1215.6	1077.4	1038.8	1053.8	1068.2	1207.8
40°	1778.7	1773.2	1746.7	1662.9	1513.3	1300.8	1138.7	1095.4	1124.8	1138.0	1272.9
42.5°	1809.6	1809.2	1819.5	1768.0	1627.2	1402.3	1215.2	1183.6	1225.1	1245.0	1352.7
45°	1782.7	1790.8	1850.4	1848.9	1741.2	1518.8	1319.6	1290.9	1350.8	1373.2	1450.1
47.5°	1756.3	1768.4	1849.2	1895.2	1843.4	1647.1	1447.9	1426.5	1512.6	1544.9	1551.1
50°	1717.7	1729.1	1825.4	1901.8	1905.9	1776.8	1614.0	1587.2	1697.8	1730.9	1661.1
52.5°	1674.7	1683.5	1783.1	1897.0	1935.6	1878.3	1776.8	1769.1	1896.3	1923.1	1772.8
55°	1437.2	1474.7	1721.0	1886.7	1956.2	1955.8	1935.3	1960.6	2112.8	2152.9	1897.4
57.5°	1300.8	1320.7	1546.0	1880.9	1994.8	2027.5	2098.8	2153.2	2344.0	2380.0	2034.9
60°	1256.4	1274.0	1458.2	1873.9	2071.6	2139.6	2258.7	2346.9	2592.5	2636.6	2188.5
62.5°	1215.9	1237.2	1422.5	1818.4	2164.6	2317.2	2449.5	2556.5	2854.6	2906.8	2341.4
65°	1133.6	1148.7	1357.1	1771.7	2252.8	2570.4	2724.8	2787.3	3108.5	3167.4	2442.9
67.5°	991.3	1005.7	1209.7	1664.4	2310.2	2834.0	3025.8	3026.2	3304.8	3353.0	2464.2
70°	824.1	835.1	997.2	1430.6	2190.7	3003.1	3297.5	3182.4	3360.3	3381.3	2362.7
72.5°	589.2	598.8	730.4	1057.5	1796.3	2866.0	3359.2	3175.8	3225.8	3219.2	2074.2
75°	363.2	381.5	447.3	645.5	1116.3	2255.0	3023.3	2877.7	2708.6	2690.3	1561.8
77.5°	236.7	246.3	302.5	380.8	492.5	1294.6	2296.2	2157.6	1710.3	1689.0	839.5
80°	142.2	158.1	198.1	239.3	223.1	495.1	1311.1	1071.8	604.3	597.7	258.0
82.5°	76.5	90.8	139.7	148.1	125.3	175.0	474.9	348.5	193.3	191.1	96.7
85°	60.6	67.6	100.3	93.7	70.9	88.6	185.3	145.2	99.2	97.0	36.4
87.5°	36.8	46.3	76.1	63.2	35.3	32.0	84.9	68.7	46.7	43.4	14.3
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°	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1
2.5°	849.1	850.9	852.8	849.1	850.6	848.7	848.7	848.7	843.9	842.5	846.9
5°	857.2	859.7	861.2	849.8	842.8	832.5	824.1	811.2	803.9	799.1	799.1
7.5°	873.7	876.7	870.0	844.7	820.1	792.5	764.2	740.7	723.7	716.4	718.6
10°	898.0	899.1	877.0	830.3	777.8	726.7	686.6	655.4	634.4	623.8	622.3
12.5°	926.3	921.5	878.5	798.7	720.8	652.1	603.2	562.8	535.9	525.6	520.5
15°	954.2	942.8	873.0	760.9	656.1	573.4	510.9	472.7	456.2	451.4	449.5
17.5°	979.2	957.9	854.6	706.5	581.1	481.5	435.6	422.0	423.8	428.2	430.1
20°	1002.0	969.3	828.1	641.8	487.4	409.8	398.4	410.9	421.2	427.9	429.0
22.5°	1027.0	980.3	791.4	563.1	410.6	376.8	390.4	404.7	415.0	421.6	422.7
25°	1046.1	979.9	739.6	469.8	362.1	367.9	384.1	397.0	404.7	409.5	409.1
27.5°	1058.2	971.1	671.6	392.9	342.9	361.7	377.1	385.6	390.0	393.7	393.3
30°	1061.9	954.2	585.9	336.3	334.1	355.8	367.6	372.7	376.0	379.7	379.7
32.5°	1069.3	928.1	491.4	304.7	327.5	349.9	356.9	361.0	358.4	349.2	347.4
35°	1077.4	899.1	402.1	290.0	321.3	345.9	352.5	341.8	313.9	310.2	308.8
37.5°	1093.2	872.2	326.4	279.7	319.8	348.1	353.6	311.0	287.4	276.0	274.2
40°	1120.0	845.4	275.7	272.4	321.6	357.6	338.9	296.3	257.3	235.6	231.9
42.5°	1155.3	812.7	247.0	268.7	326.8	373.1	333.8	275.3	232.7	218.0	215.8
45°	1196.1	769.3	233.4	268.0	333.0	380.8	335.2	258.4	221.6	210.3	209.5
47.5°	1238.3	726.7	227.5	267.2	340.7	377.5	315.0	253.3	217.2	213.9	216.1
50°	1283.9	678.2	222.7	265.4	347.0	377.5	304.0	252.2	218.7	226.1	233.4
52.5°	1326.6	637.4	217.2	259.9	349.6	370.9	300.7	256.2	220.9	219.1	221.3
55°	1378.4	616.4	214.3	252.2	344.8	350.7	296.6	267.2	222.7	207.7	207.7
57.5°	1437.6	612.0	209.9	241.9	329.3	322.7	296.3	273.8	218.0	204.0	201.4
60°	1508.9	621.6	204.4	229.0	310.6	301.0	293.7	273.8	210.3	197.8	198.9
62.5°	1566.6	620.5	201.1	217.6	285.6	278.6	288.9	270.2	207.3	197.0	196.7
65°	1580.2	596.9	191.5	202.9	254.7	251.4	283.8	261.0	203.3	193.0	190.0
67.5°	1534.2	543.6	177.2	183.4	222.0	222.4	274.6	248.8	197.8	190.8	186.0
70°	1403.8	439.6	155.9	159.9	186.7	191.5	261.0	234.5	188.6	181.2	169.8
72.5°	1174.8	316.1	131.2	132.3	148.5	161.0	237.5	215.0	175.0	157.7	145.6
75°	869.7	209.9	107.0	105.5	111.4	130.9	202.9	193.3	157.3	130.9	124.6
77.5°	459.8	124.2	82.3	82.7	79.0	100.3	161.0	168.0	139.7	110.3	104.0
80°	157.3	74.6	59.2	61.8	55.9	71.7	119.5	139.7	119.5	91.9	81.2
82.5°	72.0	45.6	42.3	44.1	40.1	48.5	82.0	105.9	95.2	66.9	54.0
85°	36.4	27.2	27.2	29.8	26.5	25.0	45.2	70.2	69.8	45.9	39.7
87.5°	15.1	13.2	12.5	14.3	12.5	9.6	12.9	25.4	36.8	27.6	17.6
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)