

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: P671282

Luminaire Tested: **CCP-SA-1D-827-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671282  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-827-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL2 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

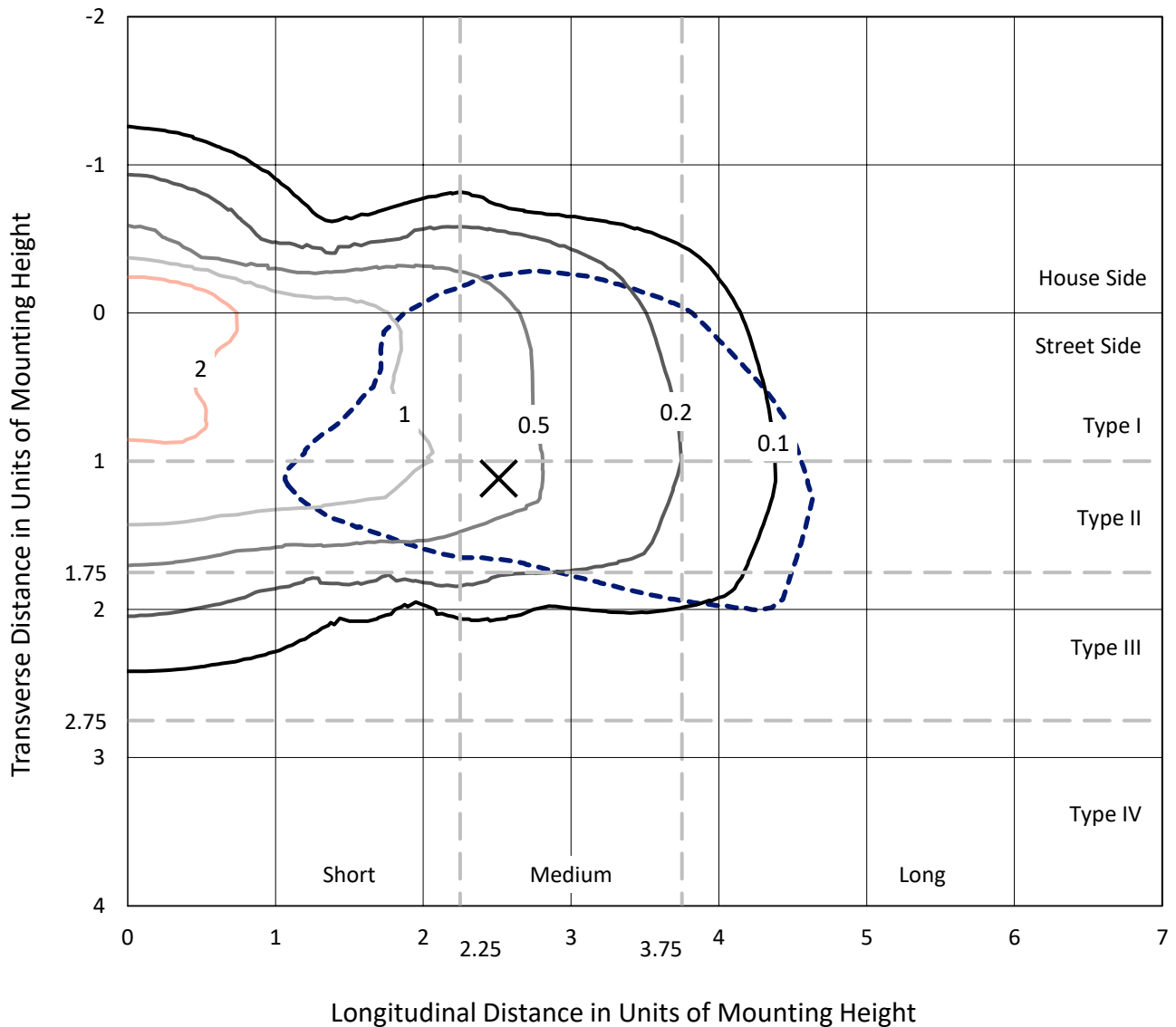
Lumens per Lamp: N/A  
Luminaire Lumens: 4057.3 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

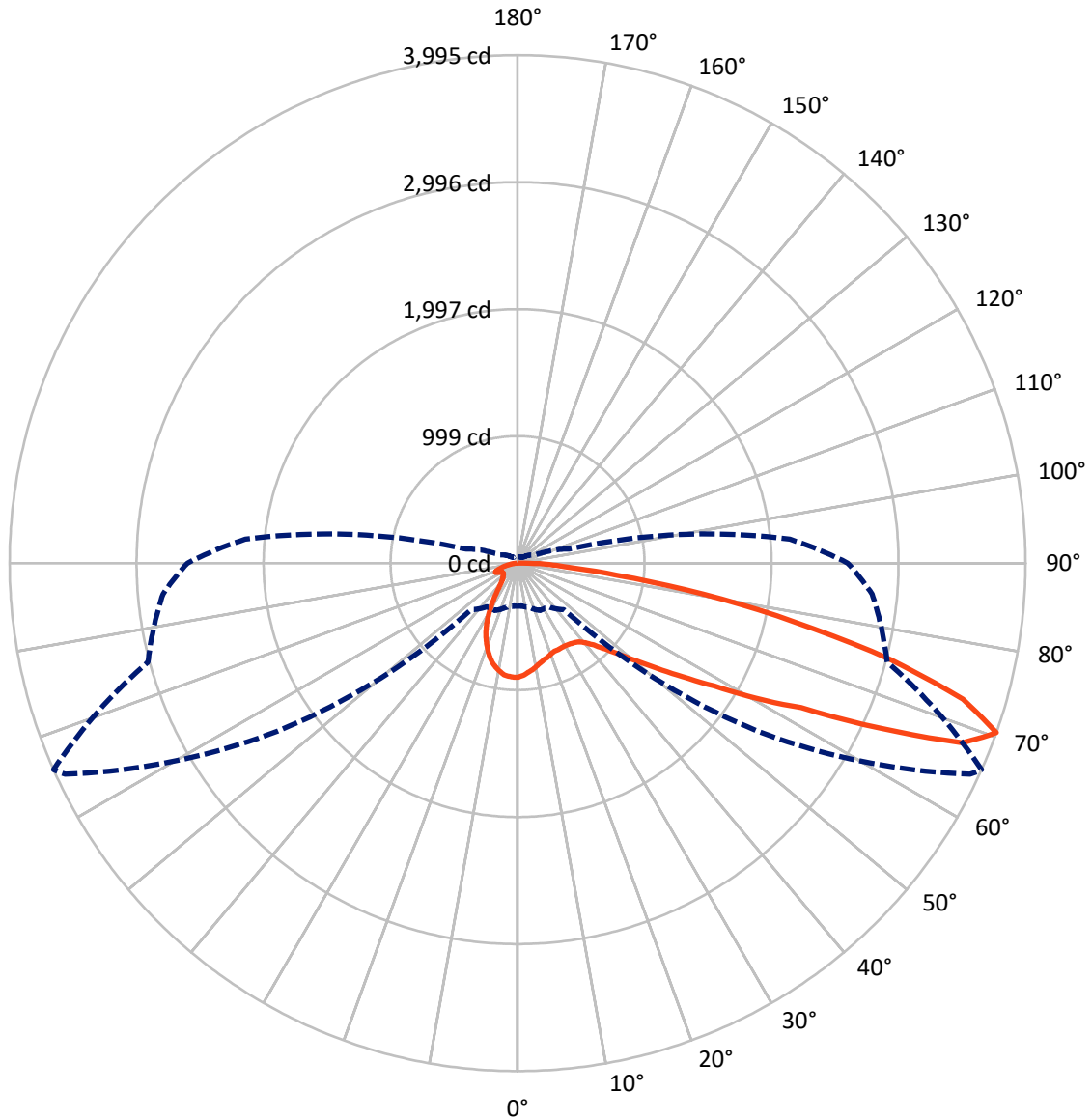
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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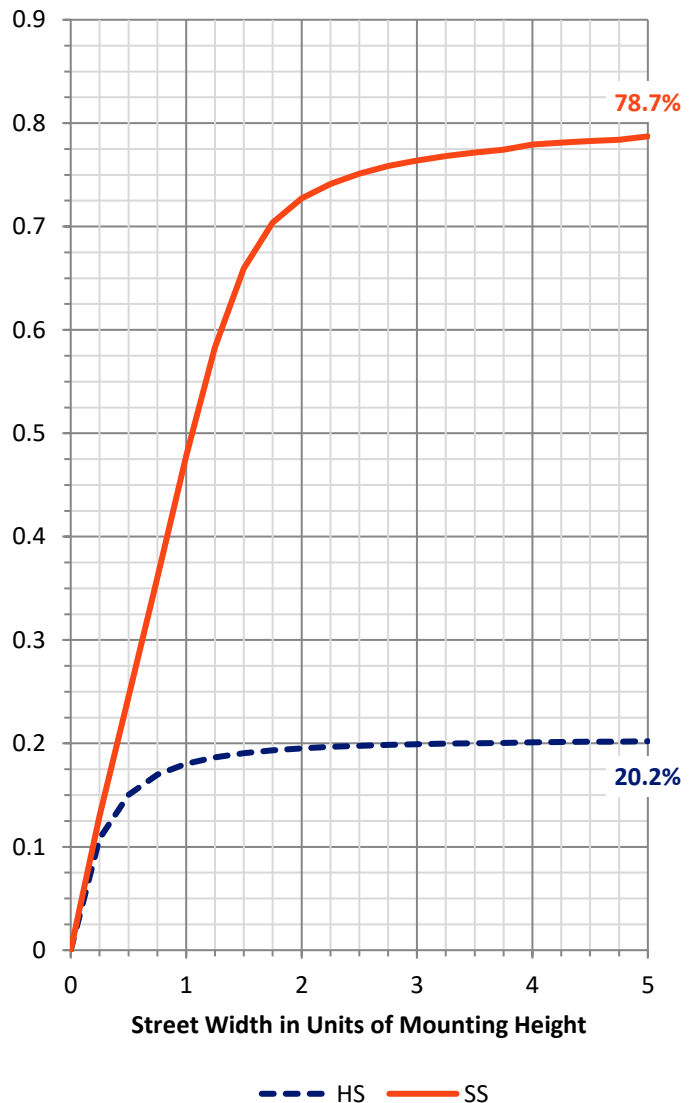
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	830.5	0.0	830.5
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	3226.8	0.0	3226.8
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	4057.3	0.0	4057.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	2.0
10°-20°	195.1	4.8
20°-30°	268.0	6.6
30°-40°	359.3	8.9
40°-50°	521.3	12.8
50°-60°	792.4	19.5
60°-70°	978.6	24.1
70°-80°	727.7	17.9
80°-90°	135.7	3.3
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°	4057.3	100.0
0°-180°	4057.3	100.0

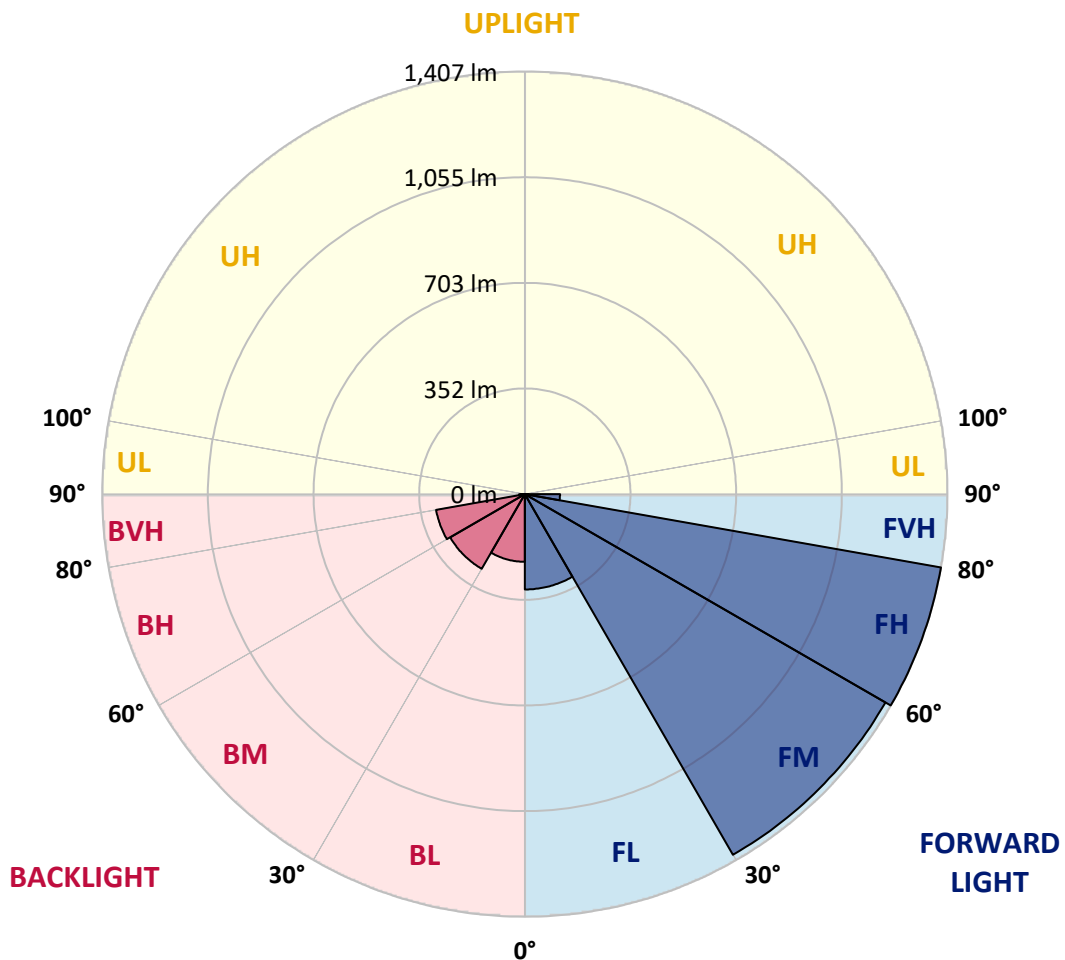


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.3	7.8			
FM (30°-60°)	1386.0	34.2			
FH (60°-80°)	1406.5	34.7			G1/1800
FVH (80°-90°)	117.0	2.9			G2/225
BL (0°-30°)	225.1	5.5	B1/500		
BM (30°-60°)	286.9	7.1	B1/1000		
BH (60°-80°)	299.8	7.4	B1/500		G1/500
BVH (80°-90°)	18.7	0.5			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4
2.5°	852.6	857.1	858.7	861.7	869.2	875.3	884.3	888.8	884.3	890.3	890.3
5°	793.8	787.7	802.8	808.9	817.9	830.0	851.1	867.7	863.2	881.3	896.4
7.5°	744.0	744.0	748.5	762.1	772.6	790.7	813.4	839.0	846.6	870.7	893.4
10°	698.7	704.7	704.7	725.9	731.9	753.0	790.7	822.4	823.9	864.7	896.4
12.5°	674.6	671.5	686.6	692.7	710.8	731.9	762.1	801.3	802.8	846.6	890.3
15°	654.9	658.0	665.5	680.6	697.2	713.8	742.5	778.7	786.2	837.5	887.3
17.5°	656.4	658.0	658.0	668.5	682.1	701.7	728.9	771.1	775.7	825.5	882.8
20°	665.5	659.5	664.0	668.5	677.6	695.7	718.3	754.5	759.1	823.9	893.4
22.5°	685.1	680.6	679.1	677.6	676.1	686.6	715.3	745.5	750.0	816.4	897.9
25°	716.8	715.3	704.7	694.2	686.6	686.6	709.3	753.0	751.5	816.4	900.9
27.5°	754.5	754.5	753.0	733.4	710.8	698.7	713.8	750.0	748.5	816.4	908.5
30°	805.8	805.8	801.3	783.2	742.5	707.8	716.8	747.0	751.5	810.4	902.4
32.5°	861.7	860.2	864.7	848.1	805.8	750.0	734.9	753.0	757.6	816.4	903.9
35°	902.4	911.5	926.6	911.5	869.2	793.8	760.6	765.1	768.1	817.9	910.0
37.5°	949.2	959.8	980.9	993.0	947.7	860.2	801.3	784.7	784.7	837.5	911.5
40°	1017.1	1006.5	1042.8	1063.9	1045.8	941.7	864.7	820.9	822.4	863.2	931.1
42.5°	1066.9	1077.5	1115.2	1152.9	1130.3	1041.3	934.1	879.8	879.8	900.9	961.3
45°	1122.7	1134.8	1187.6	1232.9	1249.5	1160.5	1029.2	964.3	961.3	974.9	1015.6
47.5°	1184.6	1201.2	1261.6	1314.4	1358.2	1284.2	1151.4	1066.9	1065.4	1076.0	1106.1
50°	1255.5	1261.6	1311.4	1408.0	1495.5	1448.7	1300.8	1211.8	1204.2	1208.8	1249.5
52.5°	1276.7	1272.1	1329.5	1433.6	1593.6	1649.4	1504.5	1376.3	1373.2	1362.7	1415.5
55°	1199.7	1214.8	1270.6	1403.4	1673.6	1886.3	1727.9	1601.1	1574.0	1545.3	1608.7
57.5°	1045.8	1047.3	1110.7	1267.6	1611.7	2082.5	2106.7	1821.4	1822.9	1746.0	1818.4
60°	813.4	808.9	858.7	1000.5	1435.1	2142.9	2520.1	2173.1	2158.0	1946.7	2013.1
62.5°	587.0	578.0	588.5	671.5	1072.9	2050.8	2926.1	2566.9	2503.5	2151.9	2203.2
65°	482.9	487.4	492.0	496.5	602.1	1691.7	3051.3	3209.8	3125.3	2391.9	2413.0
67.5°	399.9	402.9	422.5	449.7	446.7	999.0	2906.5	3804.4	3772.7	2689.2	2594.1
70°	339.5	338.0	360.7	410.5	418.0	519.1	2301.3	3926.6	3994.5	3009.1	2799.3
72.5°	271.6	274.6	294.3	360.7	410.5	437.6	1325.0	3664.0	3662.5	3255.1	2689.2
75°	194.7	194.7	221.8	298.8	396.9	433.1	733.4	2974.4	3030.2	3058.9	2333.0
77.5°	128.3	134.3	155.4	223.3	372.7	424.0	464.8	2162.5	2231.9	2287.7	1785.2
80°	87.5	90.5	104.1	155.4	315.4	427.1	380.3	1454.7	1481.9	1263.1	724.4
82.5°	52.8	54.3	69.4	108.7	226.4	405.9	357.6	802.8	786.2	381.8	208.3
85°	28.7	30.2	43.8	72.4	149.4	354.6	351.6	393.9	366.7	140.3	87.5
87.5°	10.6	10.6	19.6	36.2	86.0	243.0	306.3	233.9	218.8	70.9	40.7
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°	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4	896.4
2.5°	897.9	897.9	897.9	897.9	896.4	890.3	894.9	893.4	884.3	885.8	879.8
5°	894.9	902.4	897.9	891.9	884.3	866.2	860.2	855.6	843.6	839.0	843.6
7.5°	902.4	896.4	893.4	882.8	852.6	836.0	814.9	789.2	771.1	766.6	771.1
10°	900.9	900.9	887.3	857.1	828.5	780.2	753.0	707.8	682.1	674.6	676.1
12.5°	894.9	899.4	878.3	830.0	775.7	716.8	667.0	618.7	573.4	555.3	552.3
15°	900.9	896.4	858.7	796.8	721.3	639.8	567.4	496.5	454.2	427.1	421.0
17.5°	891.9	887.3	833.0	751.5	650.4	546.3	455.7	378.8	336.5	326.0	326.0
20°	902.4	873.7	802.8	697.2	576.5	443.7	341.0	283.7	273.1	273.1	276.2
22.5°	900.9	870.7	777.2	644.4	487.4	335.0	253.5	236.9	238.4	250.5	249.0
25°	891.9	864.7	741.0	585.5	393.9	252.0	209.8	205.2	215.8	229.4	227.9
27.5°	890.3	848.1	707.8	516.1	300.3	199.2	182.6	182.6	193.2	205.2	203.7
30°	881.3	834.5	667.0	437.6	226.4	173.5	167.5	167.5	172.0	178.1	178.1
32.5°	879.8	816.4	621.7	356.1	181.1	156.9	153.9	155.4	155.4	158.5	156.9
35°	867.7	792.3	575.0	276.2	156.9	147.9	144.9	143.4	143.4	141.9	141.9
37.5°	863.2	777.2	526.7	214.3	146.4	140.3	137.3	132.8	131.3	131.3	129.8
40°	867.7	762.1	479.9	173.5	137.3	134.3	129.8	123.7	122.2	122.2	122.2
42.5°	884.3	760.6	431.6	150.9	132.8	128.3	122.2	116.2	114.7	116.2	114.7
45°	922.0	772.6	384.8	140.3	126.8	122.2	114.7	110.2	108.7	110.2	110.2
47.5°	983.9	805.8	342.6	134.3	122.2	116.2	108.7	104.1	104.1	104.1	104.1
50°	1086.5	869.2	301.8	129.8	119.2	111.7	104.1	98.1	96.6	96.6	98.1
52.5°	1240.5	977.9	268.6	126.8	114.7	105.6	98.1	93.6	90.5	89.0	90.5
55°	1426.1	1136.3	258.0	123.7	108.7	101.1	93.6	87.5	84.5	84.5	83.0
57.5°	1625.3	1311.4	276.2	120.7	104.1	95.1	87.5	81.5	78.5	77.0	77.0
60°	1841.1	1518.1	342.6	119.2	99.6	89.0	81.5	77.0	72.4	70.9	70.9
62.5°	2037.2	1705.2	461.8	117.7	96.6	83.0	75.5	69.4	66.4	64.9	64.9
65°	2260.6	1913.5	578.0	123.7	95.1	78.5	69.4	63.4	60.4	58.9	58.9
67.5°	2455.2	2094.6	645.9	138.8	99.6	72.4	61.9	57.3	55.8	54.3	54.3
70°	2597.1	2150.4	433.1	152.4	107.1	67.9	55.8	52.8	49.8	49.8	49.8
72.5°	2407.0	1919.5	256.5	143.4	101.1	63.4	49.8	46.8	45.3	45.3	43.8
75°	2058.4	1634.3	197.7	116.2	81.5	54.3	43.8	40.7	39.2	39.2	37.7
77.5°	1519.6	1171.0	146.4	92.1	63.4	43.8	37.7	36.2	34.7	33.2	33.2
80°	594.6	513.1	99.6	67.9	46.8	34.7	31.7	30.2	28.7	27.2	27.2
82.5°	184.1	155.4	57.3	45.3	33.2	27.2	25.7	24.1	22.6	21.1	21.1
85°	80.0	77.0	37.7	28.7	22.6	18.1	18.1	16.6	15.1	13.6	13.6
87.5°	39.2	37.7	21.1	13.6	12.1	9.1	9.1	7.5	6.0	6.0	6.0
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)