

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: P672290

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672290  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-827-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

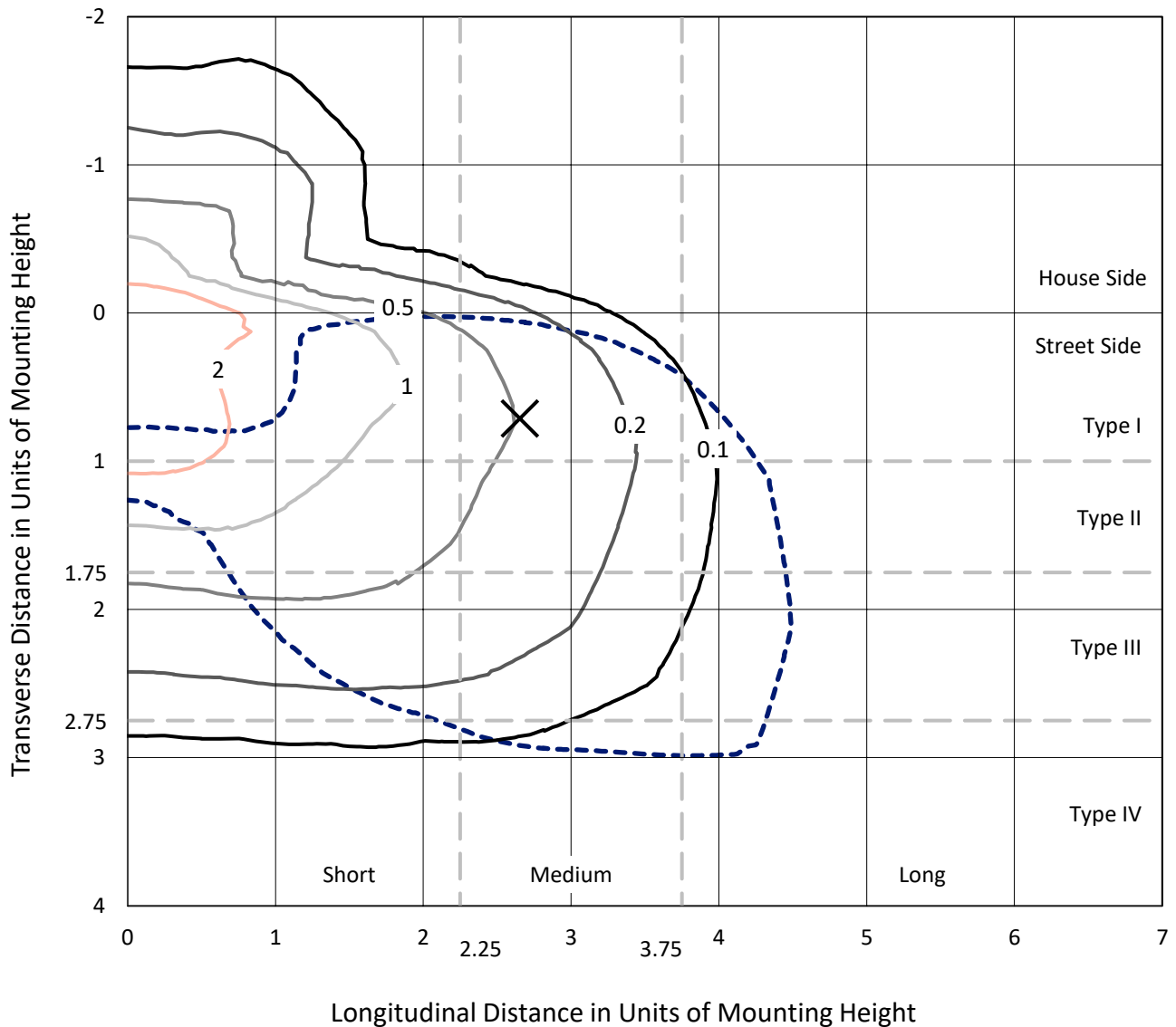
Lumens per Lamp: N/A  
Luminaire Lumens: 4166.7 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

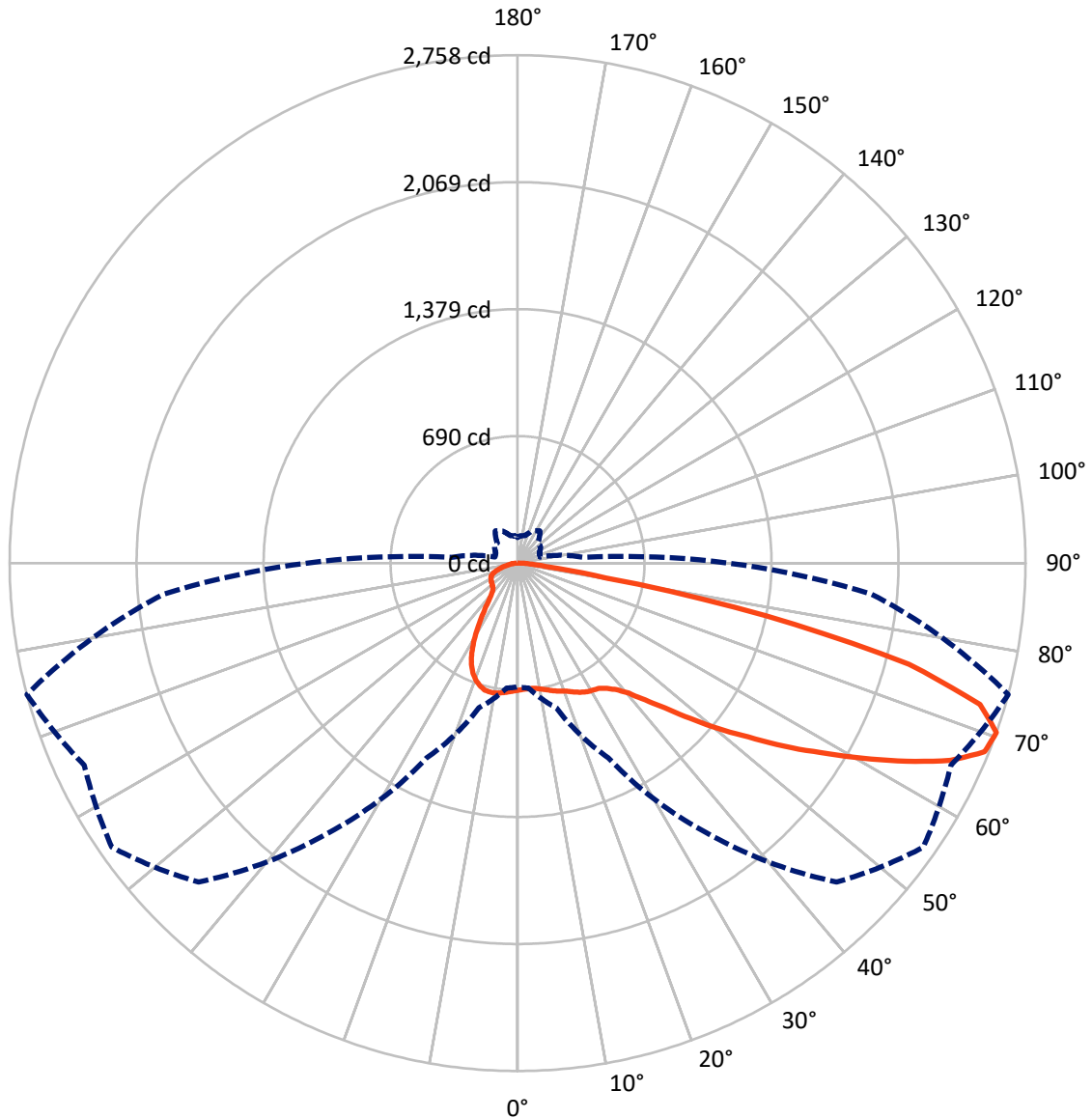
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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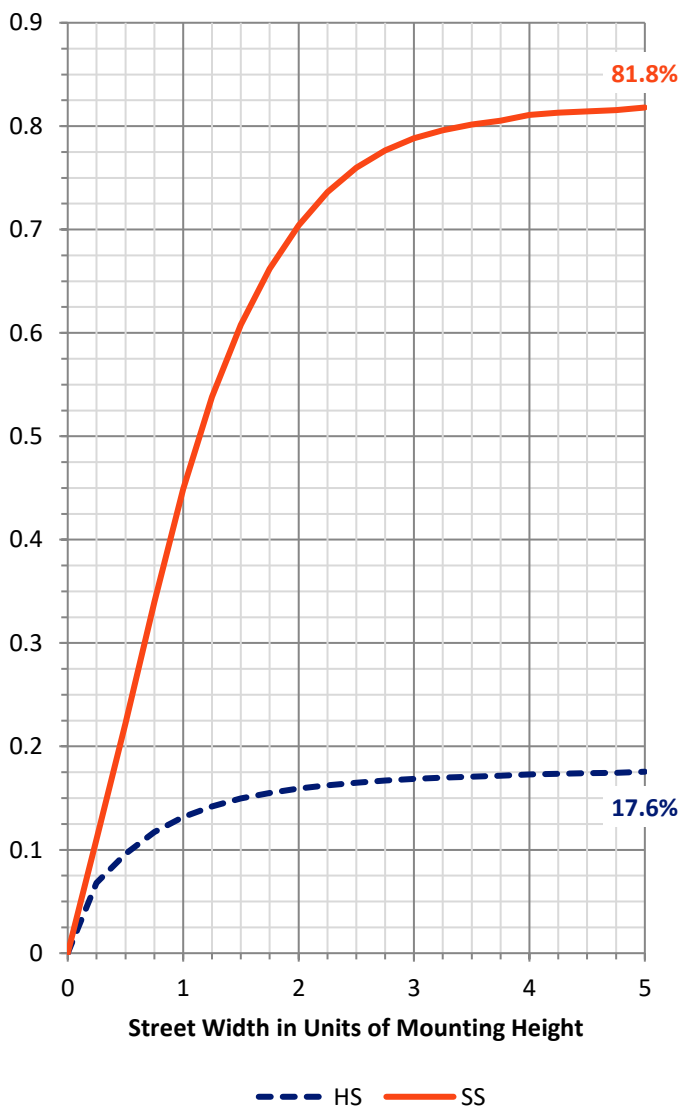
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	741.3	0.0	741.3
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	3425.4	0.0	3425.4
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	4166.7	0.0	4166.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.5
10°-20°	165.5	4.0
20°-30°	278.8	6.7
30°-40°	423.4	10.2
40°-50°	606.6	14.6
50°-60°	804.3	19.3
60°-70°	1006.5	24.2
70°-80°	735.0	17.6
80°-90°	84.8	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°	4166.7	100.0
0°-180°	4166.7	100.0



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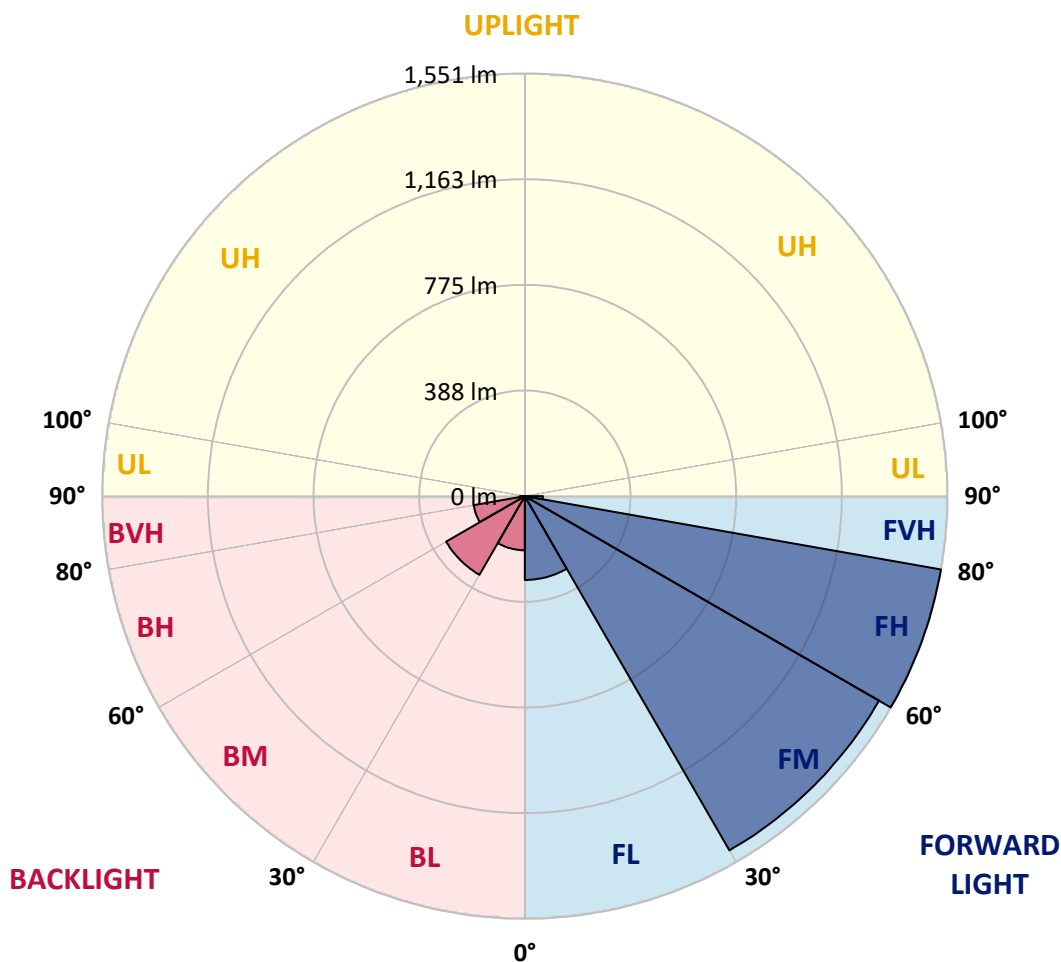
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.5	7.4			
FM (30°-60°)	1501.0	36.0			
FH (60°-80°)	1550.7	37.2			G1/1800
FVH (80°-90°)	66.1	1.6			G1/100
BL (0°-30°)	198.7	4.8	B1/500		
BM (30°-60°)	333.3	8.0	B1/1000		
BH (60°-80°)	190.7	4.6	B1/500		G1/500
BVH (80°-90°)	18.6	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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	652.4	656.0	659.3	662.6	665.3	672.5	674.0	681.8	683.9	685.7	688.1
5°	615.8	618.5	621.8	627.2	632.9	645.8	654.8	671.9	681.5	684.5	692.9
7.5°	596.0	596.9	601.4	605.9	612.5	625.1	637.4	664.1	683.3	686.6	704.6
10°	581.7	582.9	587.1	593.4	599.9	611.6	626.9	658.7	689.9	695.0	720.5
12.5°	576.6	576.0	580.8	585.0	594.3	608.9	624.8	659.0	698.9	706.1	743.6
15°	596.9	593.1	596.0	594.6	597.5	611.9	630.8	665.6	710.0	719.0	767.5
17.5°	641.9	638.6	636.5	623.6	615.2	623.3	641.3	674.9	721.7	731.3	789.1
20°	709.1	699.8	692.0	670.4	647.0	644.3	656.9	684.2	732.8	742.1	811.9
22.5°	785.5	778.0	765.4	727.7	691.4	673.4	676.7	701.3	749.0	759.2	838.0
25°	882.1	881.8	856.0	805.0	750.2	713.9	707.0	728.6	767.2	777.1	859.6
27.5°	992.1	984.6	954.0	888.4	819.4	764.0	747.8	756.5	781.9	792.1	877.0
30°	1086.3	1087.2	1056.0	984.3	893.2	812.8	782.2	776.5	791.5	801.7	893.2
32.5°	1187.0	1181.9	1153.4	1079.7	972.9	865.3	804.4	790.9	801.4	811.0	915.7
35°	1281.7	1276.0	1251.5	1172.0	1060.8	923.2	834.4	813.4	824.8	835.3	943.2
37.5°	1372.0	1372.9	1345.0	1269.2	1145.9	991.5	878.8	847.3	859.6	871.3	985.2
40°	1450.8	1446.3	1424.8	1356.4	1234.4	1061.1	928.9	893.5	917.5	928.3	1038.3
42.5°	1476.0	1475.7	1484.1	1442.2	1327.3	1143.8	991.2	965.4	999.3	1015.5	1103.4
45°	1454.1	1460.7	1509.3	1508.1	1420.3	1238.9	1076.4	1053.0	1101.9	1120.1	1182.8
47.5°	1432.6	1442.5	1508.4	1545.9	1503.6	1343.5	1181.0	1163.6	1233.8	1260.2	1265.3
50°	1401.1	1410.4	1488.9	1551.3	1554.6	1449.3	1316.5	1294.6	1384.9	1411.9	1354.9
52.5°	1366.0	1373.2	1454.4	1547.4	1578.9	1532.1	1449.3	1443.1	1546.8	1568.7	1446.0
55°	1172.3	1202.9	1403.8	1539.0	1595.7	1595.4	1578.6	1599.3	1723.4	1756.1	1547.7
57.5°	1061.1	1077.3	1261.1	1534.2	1627.1	1653.8	1712.0	1756.4	1912.0	1941.4	1659.8
60°	1024.8	1039.2	1189.4	1528.5	1689.8	1745.3	1842.4	1914.4	2114.7	2150.6	1785.2
62.5°	991.8	1009.2	1160.3	1483.2	1765.7	1890.1	1998.0	2085.3	2328.4	2371.0	1909.9
65°	924.7	936.9	1106.9	1445.2	1837.6	2096.7	2222.6	2273.6	2535.6	2583.6	1992.6
67.5°	808.6	820.3	986.7	1357.6	1884.4	2311.6	2468.1	2468.4	2695.7	2735.0	2010.0
70°	672.2	681.2	813.4	1166.9	1786.9	2449.6	2689.7	2595.9	2741.0	2758.1	1927.3
72.5°	480.6	488.4	595.7	862.6	1465.2	2337.7	2740.1	2590.5	2631.3	2625.9	1691.9
75°	296.2	311.2	364.9	526.5	910.6	1839.4	2466.1	2347.3	2209.4	2194.4	1274.0
77.5°	193.1	200.9	246.8	310.6	401.8	1056.0	1873.0	1760.0	1395.1	1377.7	684.8
80°	116.0	128.9	161.6	195.2	182.0	403.9	1069.5	874.3	492.9	487.5	210.5
82.5°	62.4	74.1	113.9	120.8	102.2	142.7	387.4	284.2	157.7	155.9	78.9
85°	49.5	55.2	81.9	76.5	57.9	72.3	151.1	118.4	81.0	79.2	29.7
87.5°	30.0	37.8	62.1	51.6	28.8	26.1	69.3	56.1	38.1	35.4	11.7
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°	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2	690.2
2.5°	692.6	694.1	695.6	692.6	693.8	692.3	692.3	692.3	688.4	687.2	690.8
5°	699.2	701.3	702.5	693.2	687.5	679.1	672.2	661.7	655.7	651.8	651.8
7.5°	712.7	715.1	709.7	689.0	668.9	646.4	623.3	604.1	590.4	584.4	586.2
10°	732.5	733.4	715.4	677.3	634.4	592.8	560.1	534.6	517.5	508.8	507.6
12.5°	755.6	751.7	716.6	651.5	588.0	531.9	492.0	459.0	437.1	428.7	424.6
15°	778.3	769.0	712.1	620.6	535.2	467.7	416.8	385.6	372.1	368.2	366.7
17.5°	798.7	781.3	697.1	576.3	474.0	392.8	355.3	344.2	345.7	349.3	350.8
20°	817.3	790.6	675.5	523.5	397.6	334.3	325.0	335.2	343.6	349.0	349.9
22.5°	837.7	799.6	645.5	459.3	334.9	307.3	318.4	330.1	338.5	343.9	344.8
25°	853.3	799.3	603.2	383.2	295.3	300.1	313.3	323.8	330.1	334.0	333.7
27.5°	863.2	792.1	547.8	320.5	279.7	295.0	307.6	314.5	318.1	321.1	320.8
30°	866.2	778.3	477.9	274.3	272.5	290.2	299.8	304.0	306.7	309.7	309.7
32.5°	872.2	757.1	400.9	248.6	267.1	285.4	291.1	294.4	292.3	284.8	283.3
35°	878.8	733.4	328.0	236.6	262.0	282.1	287.5	278.8	256.0	253.1	251.9
37.5°	891.7	711.5	266.2	228.2	260.8	283.9	288.4	253.7	234.5	225.2	223.7
40°	913.6	689.6	224.9	222.2	262.3	291.7	276.4	241.7	209.9	192.2	189.2
42.5°	942.3	662.9	201.5	219.2	266.5	304.3	272.2	224.6	189.8	177.8	176.0
45°	975.6	627.5	190.4	218.6	271.6	310.6	273.4	210.8	180.8	171.5	170.9
47.5°	1010.1	592.8	185.6	218.0	277.9	307.9	256.9	206.6	177.2	174.5	176.3
50°	1047.3	553.2	181.7	216.5	283.0	307.9	248.0	205.7	178.4	184.4	190.4
52.5°	1082.1	519.9	177.2	212.0	285.1	302.5	245.3	209.0	180.2	178.7	180.5
55°	1124.3	502.8	174.8	205.7	281.2	286.0	242.0	218.0	181.7	169.4	169.4
57.5°	1172.6	499.2	171.2	197.3	268.6	263.2	241.7	223.4	177.8	166.4	164.3
60°	1230.8	507.0	166.7	186.8	253.4	245.6	239.6	223.4	171.5	161.3	162.2
62.5°	1277.8	506.1	164.0	177.5	233.0	227.3	235.7	220.4	169.1	160.7	160.4
65°	1288.9	486.9	156.2	165.5	207.8	205.1	231.5	212.9	165.8	157.4	155.0
67.5°	1251.5	443.4	144.5	149.6	181.1	181.4	224.0	203.0	161.3	155.6	151.7
70°	1145.0	358.6	127.1	130.4	152.3	156.2	212.9	191.3	153.8	147.8	138.5
72.5°	958.2	257.8	107.0	107.9	121.1	131.3	193.7	175.4	142.7	128.6	118.7
75°	709.4	171.2	87.2	86.0	90.8	106.7	165.5	157.7	128.3	106.7	101.6
77.5°	375.1	101.3	67.2	67.5	64.5	81.9	131.3	137.0	113.9	89.9	84.9
80°	128.3	60.9	48.3	50.4	45.6	58.5	97.4	113.9	97.4	75.0	66.3
82.5°	58.8	37.2	34.5	36.0	32.7	39.6	66.9	86.3	77.7	54.6	44.1
85°	29.7	22.2	22.2	24.3	21.6	20.4	36.9	57.3	57.0	37.5	32.4
87.5°	12.3	10.8	10.2	11.7	10.2	7.8	10.5	20.7	30.0	22.5	14.4
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)