

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: P674604

Luminaire Tested: **CCP-SA-1C-830-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674604  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-830-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

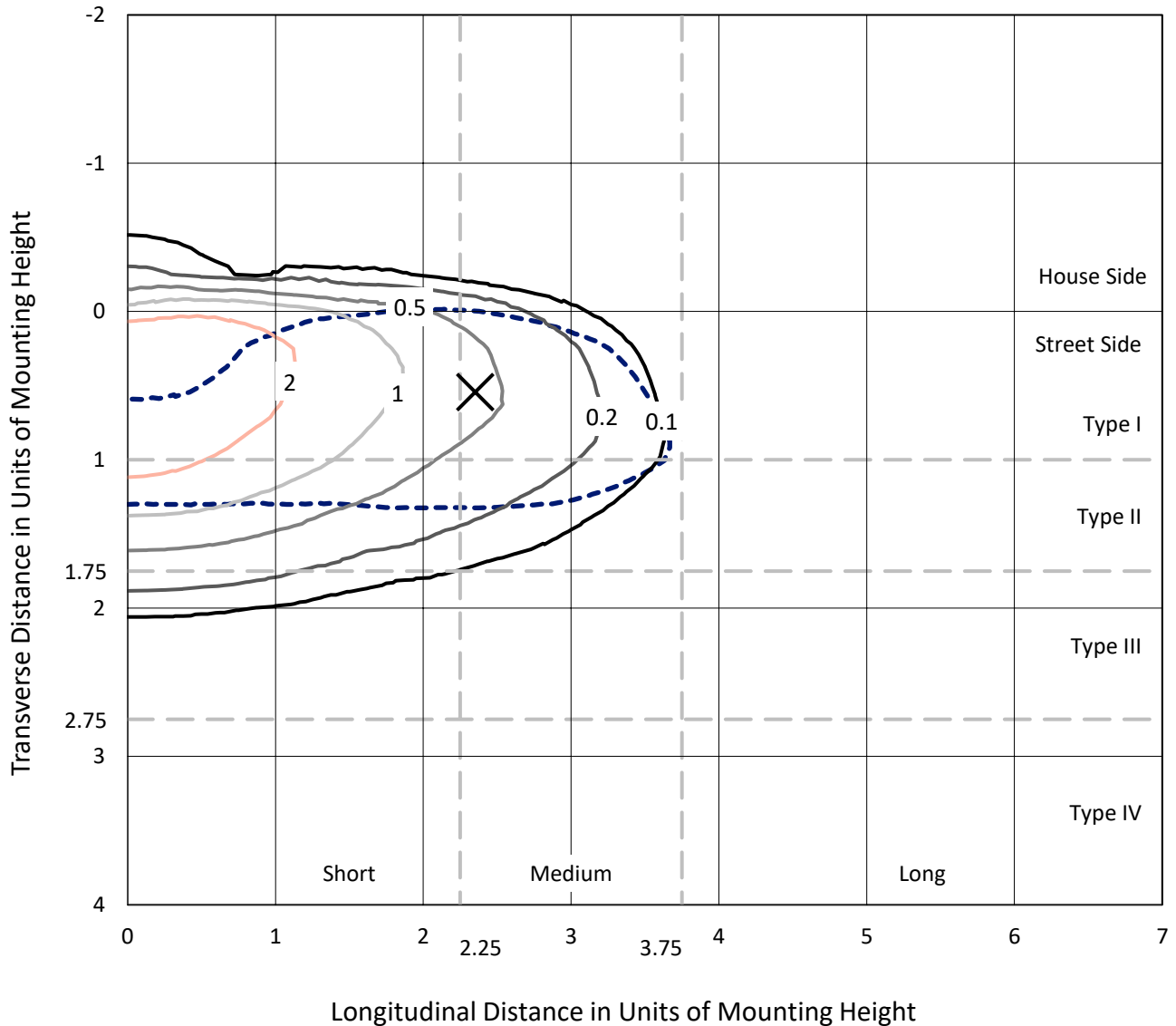
Lumens per Lamp: N/A  
Luminaire Lumens: 2909 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
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

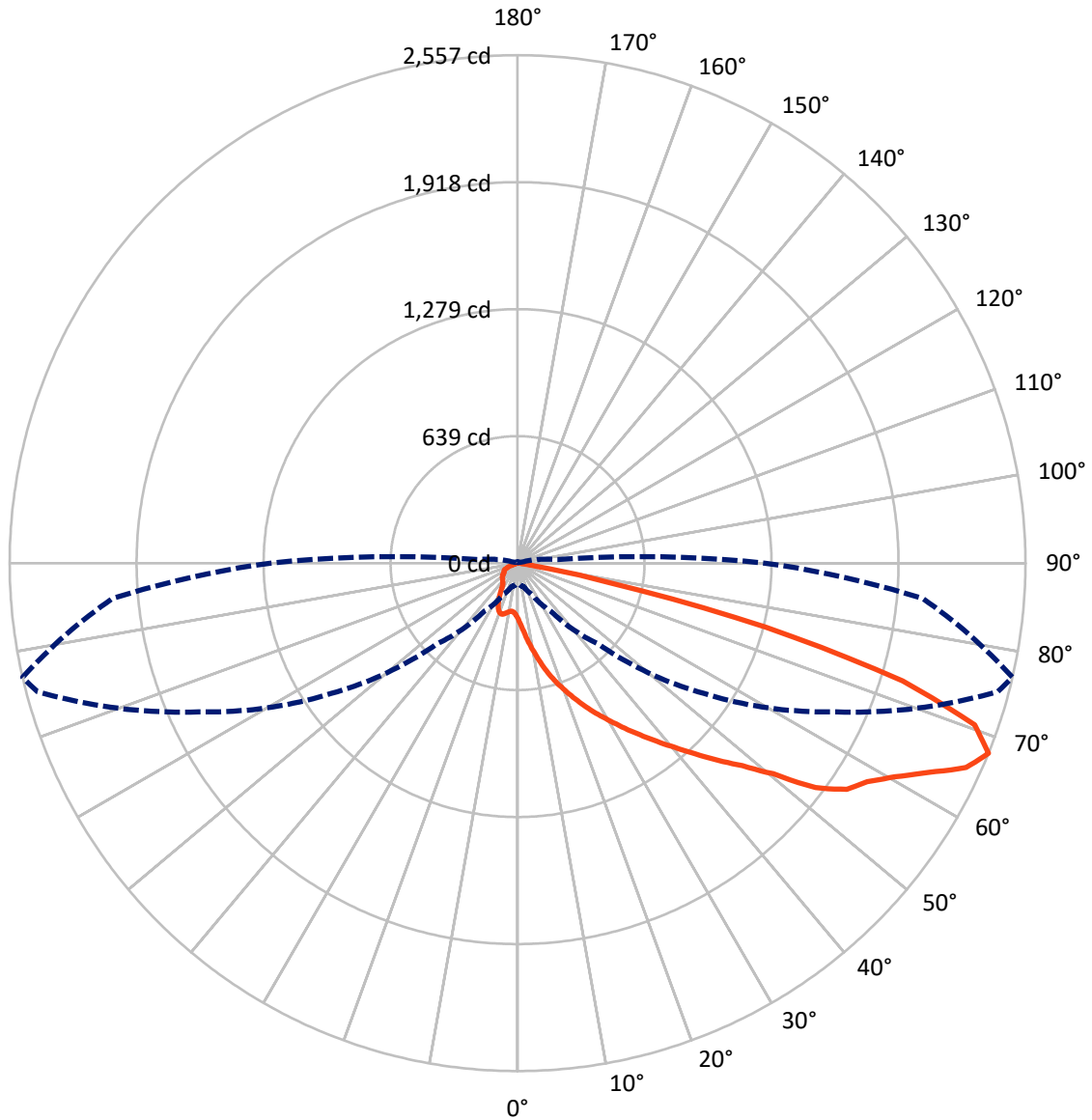
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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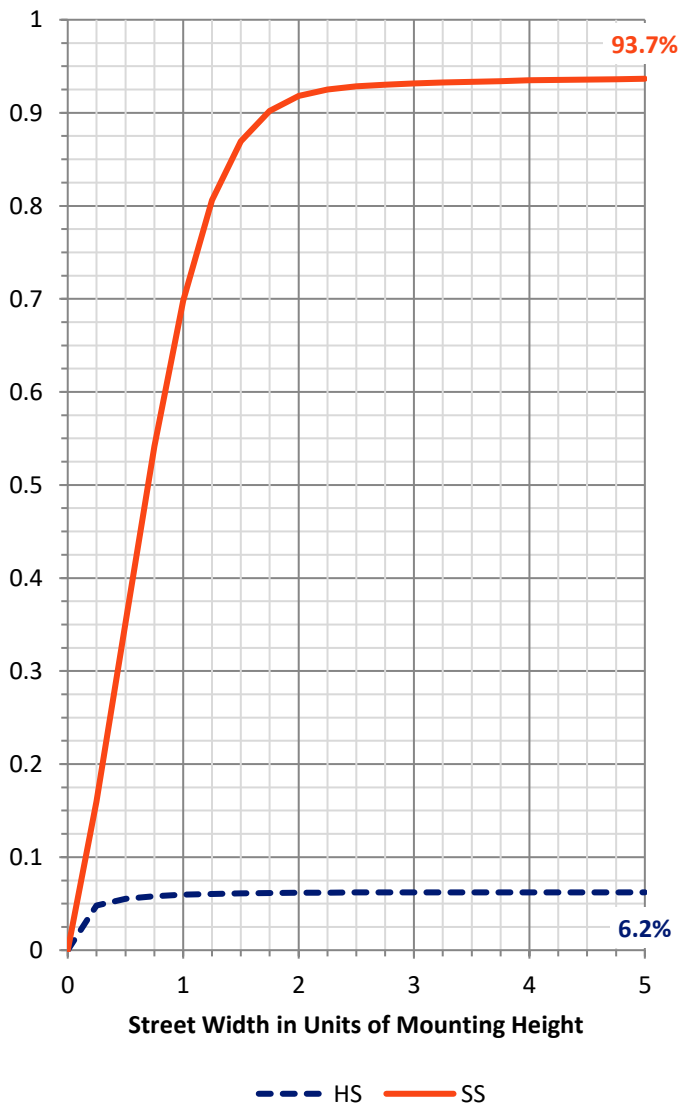
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	181.8	0.0	181.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	2727.2	0.0	2727.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2909.0	0.0	2909.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.7	1.1
10°-20°	121.1	4.2
20°-30°	236.6	8.1
30°-40°	413.6	14.2
40°-50°	603.2	20.7
50°-60°	705.3	24.2
60°-70°	571.8	19.7
70°-80°	214.8	7.4
80°-90°	9.8	0.3
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°	2909.0	100.0
0°-180°	2909.0	100.0



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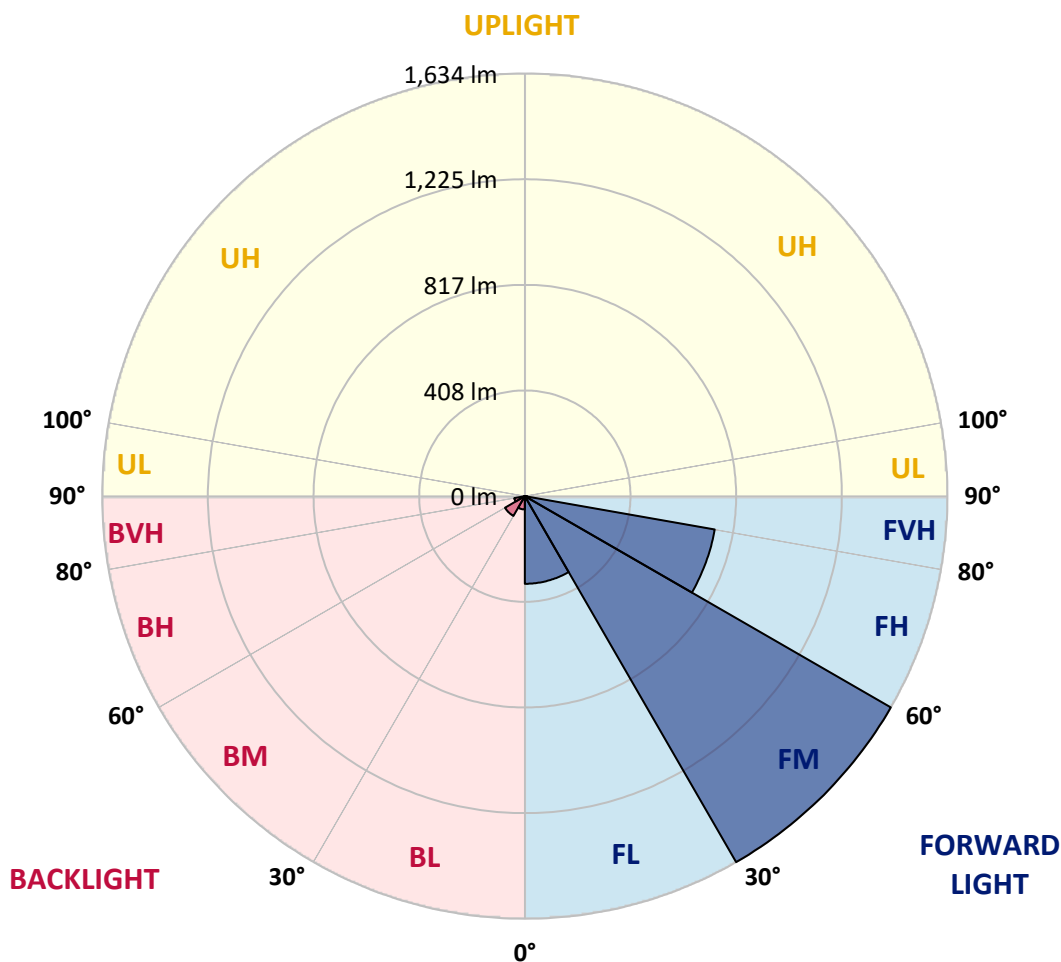
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.9	11.6			
FM (30°-60°)	1633.7	56.2			
FH (60°-80°)	745.4	25.6			G1/1800
FVH (80°-90°)	9.2	0.3			G0/10
BL (0°-30°)	51.6	1.8	B0/110		
BM (30°-60°)	88.4	3.0	B0/220		
BH (60°-80°)	41.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6
2.5°	418.3	403.1	406.0	399.7	391.5	372.6	352.7	332.7	314.9	310.9	293.1
5°	535.7	531.0	526.0	521.8	504.7	481.1	445.1	399.4	358.2	351.1	314.1
7.5°	626.8	619.7	624.2	611.3	593.5	570.6	524.9	476.1	412.5	402.0	344.5
10°	694.1	690.1	692.2	686.2	677.5	654.7	609.5	548.3	474.8	454.8	378.7
12.5°	744.5	745.3	754.5	755.0	747.9	729.2	681.5	617.6	531.2	513.4	416.5
15°	781.2	782.0	793.3	805.4	813.5	803.8	760.5	689.1	597.7	573.3	456.1
17.5°	787.3	787.8	807.8	832.2	857.4	865.8	832.4	760.0	658.3	630.5	501.6
20°	791.2	795.7	813.5	841.6	881.6	907.6	889.4	828.0	717.2	684.9	546.2
22.5°	839.0	839.0	849.5	869.5	901.3	942.0	938.3	890.5	774.4	742.4	590.6
25°	940.4	940.4	930.1	924.9	942.0	974.0	983.2	957.2	839.8	802.0	637.3
27.5°	1074.6	1074.6	1058.5	1019.9	1005.2	1018.6	1028.4	1015.2	900.2	862.9	686.7
30°	1213.7	1218.5	1190.6	1141.5	1090.1	1079.8	1070.4	1067.5	964.5	922.5	736.9
32.5°	1353.5	1352.9	1318.3	1257.1	1189.9	1153.6	1122.9	1119.5	1032.8	991.6	784.4
35°	1465.1	1465.3	1428.8	1366.1	1288.3	1242.1	1192.7	1176.7	1107.7	1061.7	841.1
37.5°	1561.7	1556.2	1516.8	1457.2	1384.7	1336.9	1275.5	1233.7	1185.1	1138.4	897.8
40°	1617.1	1609.8	1571.4	1514.7	1459.8	1423.3	1369.2	1302.5	1270.2	1219.8	962.4
42.5°	1625.2	1618.9	1593.5	1559.3	1514.4	1482.4	1467.9	1380.2	1359.5	1313.8	1039.6
45°	1602.4	1592.2	1583.8	1565.9	1553.3	1537.8	1557.5	1463.0	1461.9	1416.5	1116.1
47.5°	1545.7	1531.8	1533.9	1553.6	1567.7	1581.7	1643.1	1571.4	1565.1	1522.6	1216.4
50°	1448.8	1441.9	1465.1	1503.9	1560.1	1615.8	1728.4	1682.2	1707.2	1667.3	1354.8
52.5°	1251.8	1260.2	1329.3	1422.8	1519.9	1631.8	1808.5	1847.7	1911.5	1878.7	1493.9
55°	1015.5	1012.3	1104.5	1270.5	1425.7	1621.6	1843.5	1945.1	2045.4	2011.0	1571.4
57.5°	818.0	823.5	885.8	1049.9	1265.7	1542.5	1851.6	1996.0	2099.2	2076.4	1643.1
60°	614.0	619.2	675.9	818.8	1053.0	1377.6	1784.4	2013.9	2200.3	2183.0	1757.6
62.5°	390.8	397.6	454.6	593.5	804.9	1121.3	1633.4	1995.3	2305.9	2320.4	1913.8
65°	192.2	198.3	240.3	346.6	538.1	838.5	1422.8	1924.1	2440.4	2481.6	2039.1
67.5°	106.4	109.2	123.7	176.5	300.2	575.1	1143.4	1772.0	2502.1	2557.2	2047.5
70°	82.7	83.5	89.0	102.9	146.3	337.4	813.3	1518.9	2374.2	2440.9	1877.1
72.5°	69.6	70.6	73.3	78.0	91.4	175.7	511.0	1173.8	1997.6	2027.8	1452.2
75°	50.9	52.5	59.9	64.1	72.2	106.6	225.3	705.3	1320.1	1290.4	812.5
77.5°	42.8	44.1	46.0	52.0	59.6	72.7	79.0	295.7	537.3	467.2	213.2
80°	29.1	30.7	35.7	38.9	50.4	48.1	32.8	79.3	107.9	88.0	41.0
82.5°	20.7	22.1	24.7	31.8	36.5	25.5	17.9	24.2	26.0	24.7	13.4
85°	6.6	8.4	17.9	26.3	19.7	8.7	11.3	9.2	8.1	7.9	5.3
87.5°	1.3	1.3	8.9	10.5	7.9	4.5	3.9	2.9	3.7	3.7	2.9
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°	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6	278.6
2.5°	284.7	272.8	255.8	239.8	223.5	211.9	203.8	195.6	192.5	191.2	187.8
5°	297.3	274.7	240.8	213.5	193.5	180.9	173.3	166.8	162.6	161.2	159.4
7.5°	315.4	282.8	234.2	202.7	182.8	169.1	156.8	142.6	131.3	126.8	125.0
10°	335.1	295.2	235.3	200.6	174.1	144.2	116.6	93.7	83.8	80.1	77.5
12.5°	364.0	308.8	239.8	198.3	148.1	102.9	74.6	65.1	62.8	62.2	61.7
15°	392.9	328.0	247.1	182.5	110.6	70.1	62.0	58.6	57.2	55.9	55.9
17.5°	422.0	346.4	250.0	151.8	76.4	60.7	56.5	53.6	51.5	50.4	49.6
20°	454.8	365.8	241.6	114.2	61.2	55.4	50.7	47.3	45.4	44.4	43.6
22.5°	490.3	385.0	223.2	79.6	55.7	49.9	45.4	42.0	40.2	39.1	38.9
25°	523.6	401.5	193.8	59.9	50.2	44.6	40.4	37.6	36.2	35.2	34.9
27.5°	558.0	415.7	155.5	52.8	45.7	40.4	36.2	33.9	32.6	31.8	31.5
30°	591.6	425.4	115.8	48.3	41.8	36.5	32.8	31.0	29.7	28.9	28.6
32.5°	626.3	430.9	78.3	44.4	37.8	33.1	29.9	28.1	27.3	26.5	26.5
35°	659.7	430.1	56.5	40.7	34.7	29.9	27.0	25.7	25.5	24.7	24.7
37.5°	696.2	424.6	48.1	37.3	31.2	27.0	24.7	23.9	23.6	23.1	22.8
40°	737.6	412.3	43.9	34.7	28.4	24.7	22.6	22.1	21.8	21.3	21.3
42.5°	783.1	396.3	41.5	31.8	26.0	22.3	20.7	20.0	19.7	19.2	19.2
45°	835.9	381.0	39.9	28.9	23.9	20.5	18.9	18.1	17.9	17.3	17.3
47.5°	907.8	372.4	37.3	26.3	21.5	18.6	17.1	16.5	16.0	15.5	15.5
50°	1006.8	362.1	33.9	23.6	19.7	16.8	15.8	15.0	14.7	14.2	14.2
52.5°	1088.2	340.3	30.5	21.0	17.6	15.5	14.4	13.9	13.4	13.1	13.1
55°	1116.8	314.9	27.0	18.9	16.0	14.4	13.4	12.9	12.6	12.3	12.3
57.5°	1162.5	306.7	23.9	16.8	14.4	13.4	12.3	12.1	11.8	11.6	11.3
60°	1240.5	311.4	21.0	15.0	13.1	12.1	11.3	11.0	10.5	10.0	10.0
62.5°	1316.2	305.7	17.9	13.1	11.3	10.8	10.0	9.5	8.4	7.6	7.1
65°	1334.5	267.1	15.5	11.0	9.5	8.9	8.1	7.1	5.5	4.5	4.5
67.5°	1245.5	203.0	13.4	9.5	7.9	7.4	5.8	4.7	3.4	2.6	2.6
70°	1027.8	128.7	11.0	7.4	6.6	5.0	3.7	3.4	2.4	2.1	1.8
72.5°	741.6	70.4	9.2	6.0	4.7	3.2	2.6	2.1	1.6	1.1	1.1
75°	375.5	33.1	6.8	4.7	3.2	2.1	1.6	1.1	1.1	0.8	0.8
77.5°	106.4	15.2	4.5	3.2	2.1	1.3	1.1	0.8	0.8	0.5	0.5
80°	21.0	7.6	2.9	2.1	1.6	1.1	0.8	0.5	0.5	0.3	0.3
82.5°	7.6	3.9	2.1	1.6	1.3	1.1	0.5	0.3	0.3	0.0	0.0
85°	3.9	2.1	1.6	1.3	1.1	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	2.1	1.6	1.3	1.3	1.1	0.8	0.5	0.3	0.0	0.0	0.0
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)