

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: P674628

Luminaire Tested: **CCP-SA-1E-840-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674628  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-840-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

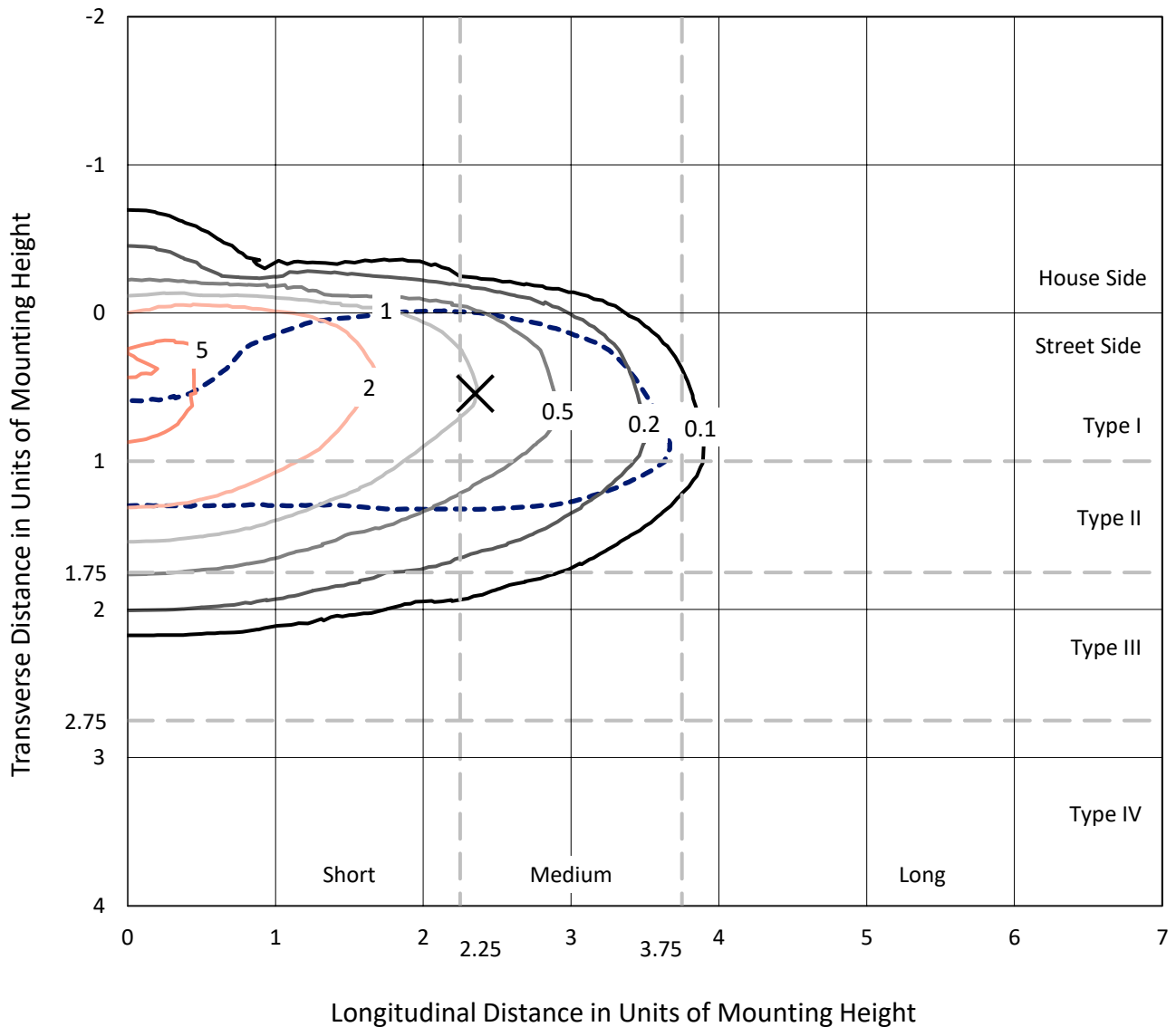
Lumens per Lamp: N/A  
Luminaire Lumens: 4720 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

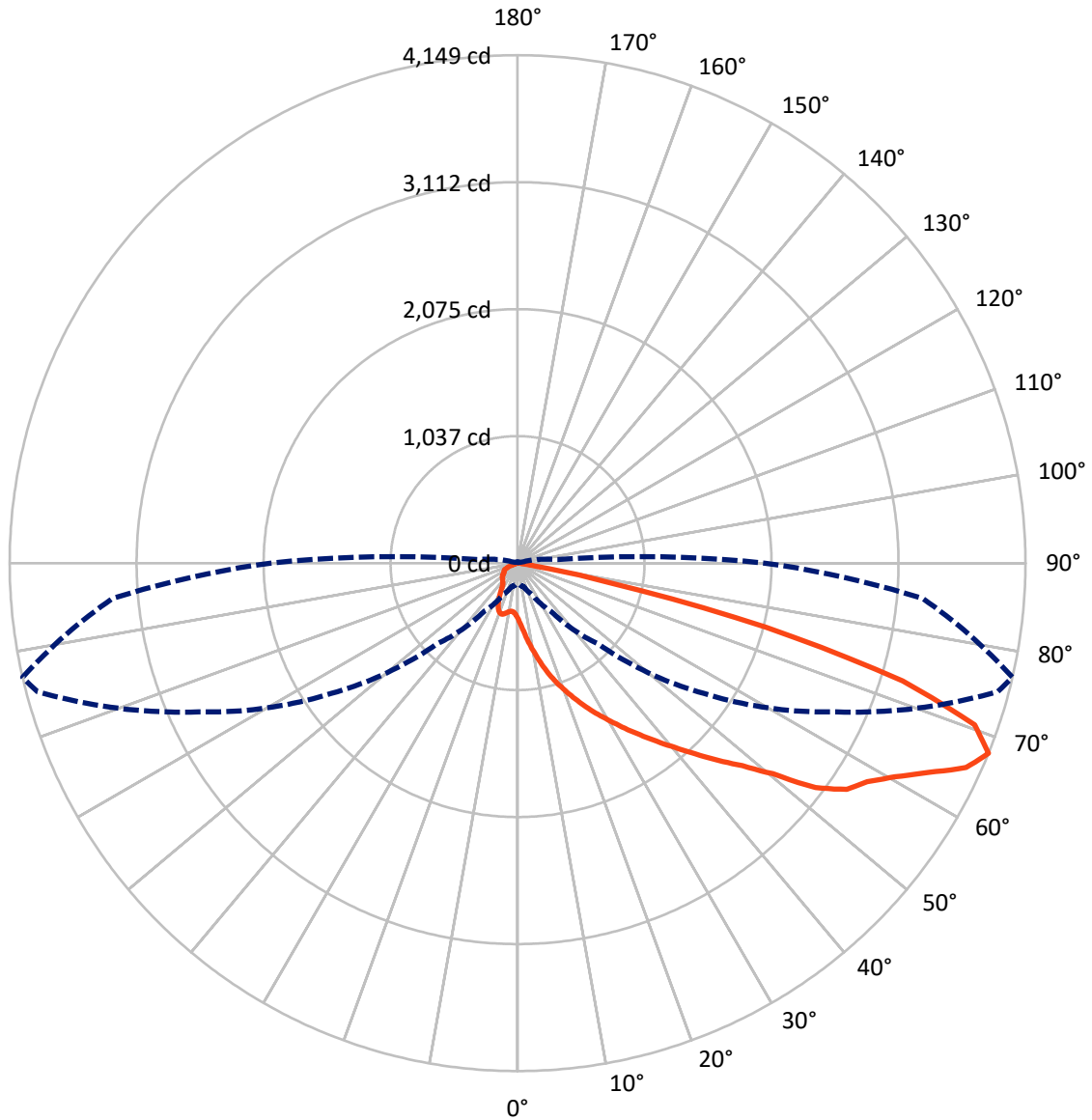
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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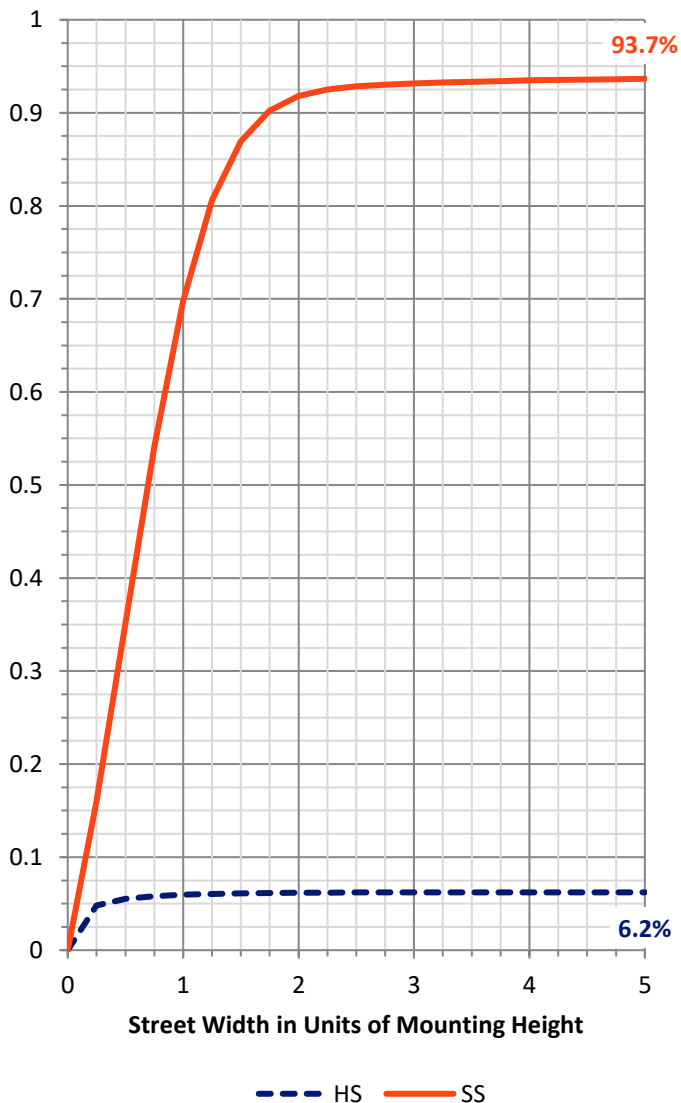
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	295.0	0.0	295.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4425.0	0.0	4425.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4720.0	0.0	4720.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	196.5	4.2
20°-30°	383.9	8.1
30°-40°	671.1	14.2
40°-50°	978.8	20.7
50°-60°	1144.5	24.2
60°-70°	927.8	19.7
70°-80°	348.5	7.4
80°-90°	15.9	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°	4720.0	100.0
0°-180°	4720.0	100.0

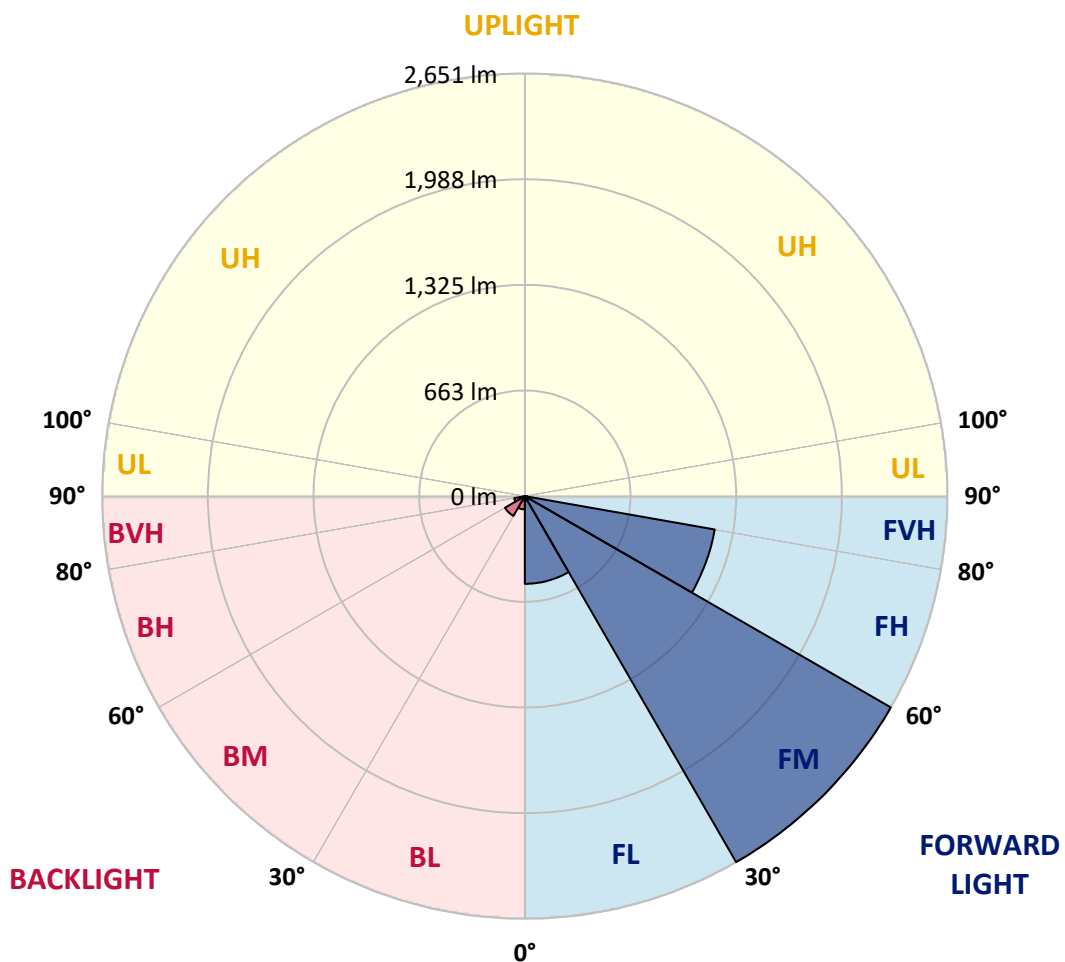


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.8	11.6			
FM (30°-60°)	2650.8	56.2			
FH (60°-80°)	1209.4	25.6			G1/1800
FVH (80°-90°)	14.9	0.3			G1/100
BL (0°-30°)	83.6	1.8	B0/110		
BM (30°-60°)	143.5	3.0	B0/220		
BH (60°-80°)	66.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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°	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1
2.5°	678.8	654.1	658.7	648.5	635.3	604.6	572.2	539.9	510.9	504.5	475.5
5°	869.2	861.6	853.5	846.6	818.9	780.6	722.2	648.1	581.2	569.7	509.6
7.5°	1017.1	1005.6	1012.8	991.9	963.0	925.9	851.8	772.5	669.4	652.3	559.0
10°	1126.2	1119.8	1123.2	1113.4	1099.3	1062.2	989.0	889.7	770.4	738.0	614.4
12.5°	1208.0	1209.2	1224.2	1225.0	1213.5	1183.3	1105.7	1002.2	862.0	833.0	675.8
15°	1267.6	1268.9	1287.2	1306.8	1320.0	1304.3	1234.0	1118.1	969.8	930.2	740.1
17.5°	1277.4	1278.3	1310.7	1350.3	1391.2	1404.8	1350.7	1233.1	1068.2	1023.0	813.8
20°	1283.8	1291.1	1320.0	1365.6	1430.4	1472.6	1443.2	1343.5	1163.7	1111.2	886.3
22.5°	1361.4	1361.4	1378.4	1410.8	1462.3	1528.4	1522.4	1444.9	1256.5	1204.6	958.3
25°	1525.8	1525.8	1509.2	1500.7	1528.4	1580.4	1595.3	1553.1	1362.6	1301.3	1034.1
27.5°	1743.6	1743.6	1717.6	1654.9	1631.1	1652.8	1668.6	1647.3	1460.6	1400.1	1114.2
30°	1969.4	1977.1	1931.9	1852.2	1768.7	1752.1	1736.7	1732.1	1565.0	1496.9	1195.6
32.5°	2196.1	2195.2	2139.0	2039.7	1930.6	1871.8	1822.0	1816.4	1675.8	1608.9	1272.7
35°	2377.2	2377.6	2318.4	2216.5	2090.4	2015.4	1935.3	1909.3	1797.3	1722.7	1364.8
37.5°	2534.0	2525.0	2461.1	2364.4	2246.8	2169.2	2069.5	2001.8	1923.0	1847.1	1456.8
40°	2623.9	2611.9	2549.7	2457.7	2368.6	2309.4	2221.6	2113.4	2061.0	1979.2	1561.6
42.5°	2637.1	2626.9	2585.5	2530.1	2457.3	2405.3	2381.9	2239.5	2205.9	2131.7	1686.9
45°	2600.0	2583.4	2569.8	2540.8	2520.3	2495.2	2527.1	2373.8	2372.1	2298.3	1810.9
47.5°	2508.0	2485.4	2488.8	2520.8	2543.8	2566.4	2666.1	2549.7	2539.5	2470.5	1973.7
50°	2350.7	2339.7	2377.2	2440.2	2531.4	2621.7	2804.5	2729.5	2770.0	2705.3	2198.2
52.5°	2031.2	2044.8	2156.9	2308.6	2466.2	2647.7	2934.5	2998.0	3101.5	3048.3	2424.0
55°	1647.7	1642.6	1792.1	2061.4	2313.3	2631.1	2991.2	3156.1	3318.8	3263.0	2549.7
57.5°	1327.3	1336.2	1437.2	1703.5	2053.8	2502.9	3004.4	3238.7	3406.2	3369.1	2666.1
60°	996.2	1004.7	1096.8	1328.6	1708.6	2235.3	2895.3	3267.7	3570.2	3542.1	2851.8
62.5°	634.0	645.1	737.6	963.0	1306.0	1819.4	2650.3	3237.4	3741.5	3764.9	3105.4
65°	311.9	321.7	389.9	562.4	873.1	1360.5	2308.6	3122.0	3959.7	4026.6	3308.6
67.5°	172.6	177.3	200.7	286.3	487.0	933.1	1855.2	2875.3	4059.8	4149.3	3322.2
70°	134.2	135.5	144.4	167.0	237.3	547.5	1319.6	2464.5	3852.3	3960.5	3045.7
72.5°	112.9	114.6	118.9	126.5	148.3	285.1	829.2	1904.6	3241.3	3290.3	2356.3
75°	82.7	85.2	97.1	104.0	117.2	173.0	365.6	1144.5	2142.0	2093.8	1318.3
77.5°	69.5	71.6	74.6	84.4	96.7	118.0	128.3	479.8	871.8	758.0	346.0
80°	47.3	49.9	57.9	63.1	81.8	78.0	53.3	128.7	175.1	142.7	66.5
82.5°	33.7	35.8	40.1	51.6	59.2	41.3	29.0	39.2	42.2	40.1	21.7
85°	10.7	13.6	29.0	42.6	32.0	14.1	18.3	14.9	13.2	12.8	8.5
87.5°	2.1	2.1	14.5	17.0	12.8	7.2	6.4	4.7	6.0	6.0	4.7
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°	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1	452.1
2.5°	461.9	442.7	415.0	389.0	362.6	343.9	330.6	317.4	312.3	310.2	304.7
5°	482.3	445.7	390.7	346.4	314.0	293.6	281.2	270.6	263.8	261.6	258.6
7.5°	511.7	458.9	380.1	328.9	296.6	274.4	254.4	231.4	213.0	205.8	202.8
10°	543.7	478.9	381.8	325.5	282.5	233.9	189.2	152.1	135.9	130.0	125.7
12.5°	590.6	501.1	389.0	321.7	240.3	167.0	121.0	105.7	101.8	101.0	100.1
15°	637.4	532.2	401.0	296.1	179.4	113.8	100.6	95.0	92.9	90.8	90.8
17.5°	684.7	562.0	405.6	246.3	124.0	98.4	91.6	86.9	83.5	81.8	80.5
20°	738.0	593.5	392.0	185.3	99.3	89.9	82.2	76.7	73.7	72.0	70.7
22.5°	795.5	624.7	362.2	129.1	90.3	81.0	73.7	68.2	65.2	63.5	63.1
25°	849.6	651.5	314.5	97.1	81.4	72.4	65.6	60.9	58.8	57.1	56.7
27.5°	905.4	674.5	252.2	85.6	74.1	65.6	58.8	55.0	52.8	51.6	51.1
30°	960.0	690.3	187.9	78.4	67.7	59.2	53.3	50.3	48.1	46.9	46.4
32.5°	1016.2	699.2	127.0	72.0	61.4	53.7	48.6	45.6	44.3	43.0	43.0
35°	1070.3	697.9	91.6	66.0	56.2	48.6	43.9	41.8	41.3	40.1	40.1
37.5°	1129.6	689.0	78.0	60.5	50.7	43.9	40.1	38.8	38.3	37.5	37.1
40°	1196.9	669.0	71.2	56.2	46.0	40.1	36.6	35.8	35.4	34.5	34.5
42.5°	1270.6	643.0	67.3	51.6	42.2	36.2	33.7	32.4	32.0	31.1	31.1
45°	1356.2	618.3	64.8	46.9	38.8	33.2	30.7	29.4	29.0	28.1	28.1
47.5°	1473.0	604.2	60.5	42.6	34.9	30.3	27.7	26.8	26.0	25.1	25.1
50°	1633.6	587.6	55.0	38.3	32.0	27.3	25.6	24.3	23.9	23.0	23.0
52.5°	1765.7	552.2	49.4	34.1	28.5	25.1	23.4	22.6	21.7	21.3	21.3
55°	1812.2	510.9	43.9	30.7	26.0	23.4	21.7	20.9	20.5	20.0	20.0
57.5°	1886.3	497.7	38.8	27.3	23.4	21.7	20.0	19.6	19.2	18.7	18.3
60°	2012.9	505.3	34.1	24.3	21.3	19.6	18.3	17.9	17.0	16.2	16.2
62.5°	2135.6	496.0	29.0	21.3	18.3	17.5	16.2	15.3	13.6	12.4	11.5
65°	2165.4	433.3	25.1	17.9	15.3	14.5	13.2	11.5	8.9	7.2	7.2
67.5°	2021.0	329.4	21.7	15.3	12.8	11.9	9.4	7.7	5.5	4.3	4.3
70°	1667.7	208.8	17.9	11.9	10.7	8.1	6.0	5.5	3.8	3.4	3.0
72.5°	1203.3	114.2	14.9	9.8	7.7	5.1	4.3	3.4	2.6	1.7	1.7
75°	609.3	53.7	11.1	7.7	5.1	3.4	2.6	1.7	1.7	1.3	1.3
77.5°	172.6	24.7	7.2	5.1	3.4	2.1	1.7	1.3	1.3	0.9	0.9
80°	34.1	12.4	4.7	3.4	2.6	1.7	1.3	0.9	0.9	0.4	0.4
82.5°	12.4	6.4	3.4	2.6	2.1	1.7	0.9	0.4	0.4	0.0	0.0
85°	6.4	3.4	2.6	2.1	1.7	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	3.4	2.6	2.1	2.1	1.7	1.3	0.9	0.4	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)