

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: P674620

Luminaire Tested: **CCP-SA-2B-835-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674620  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-835-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

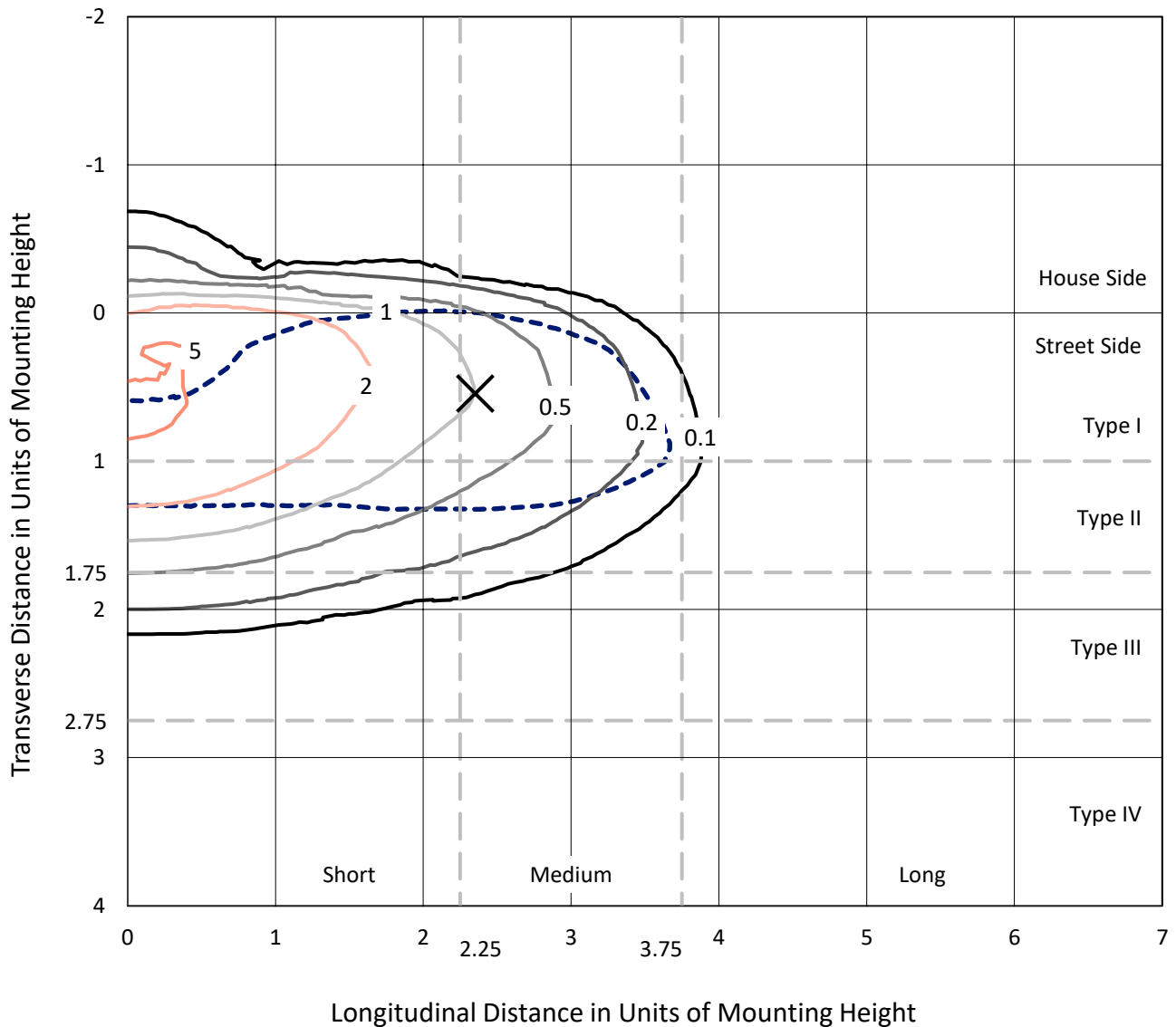
Lumens per Lamp: N/A  
Luminaire Lumens: 4607.8 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 46  
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

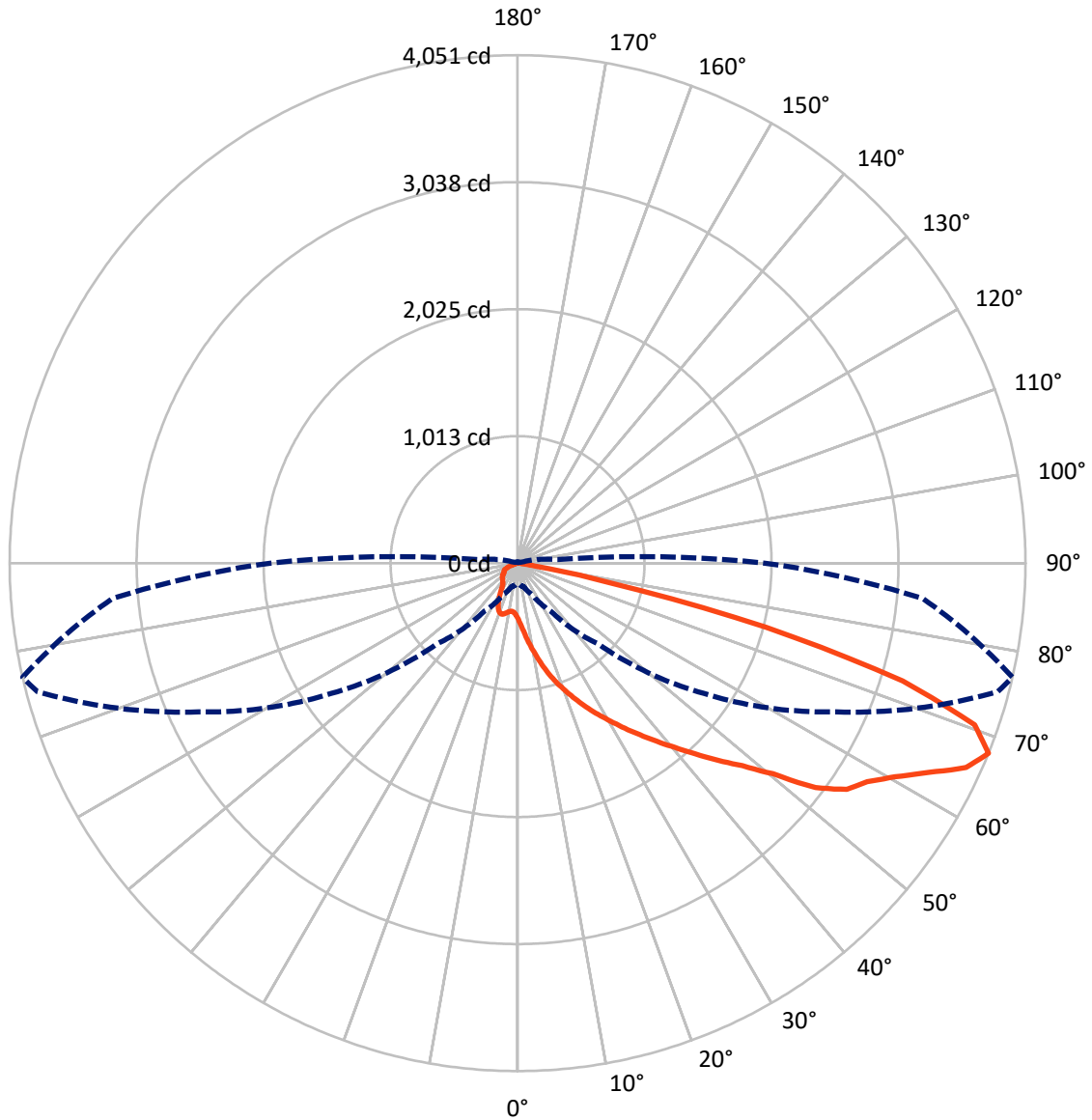
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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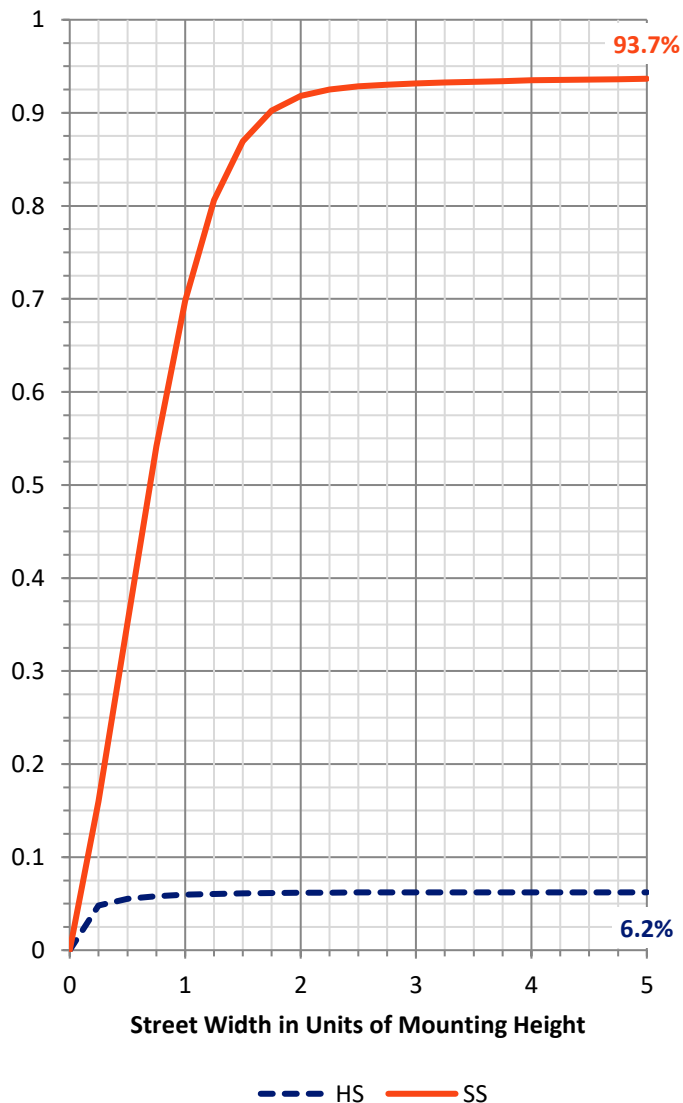
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	287.9	0.0	287.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4319.8	0.0	4319.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4607.8	0.0	4607.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	1.1
10°-20°	191.8	4.2
20°-30°	374.7	8.1
30°-40°	655.2	14.2
40°-50°	955.5	20.7
50°-60°	1117.3	24.2
60°-70°	905.7	19.7
70°-80°	340.3	7.4
80°-90°	15.5	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°	4607.8	100.0
0°-180°	4607.8	100.0



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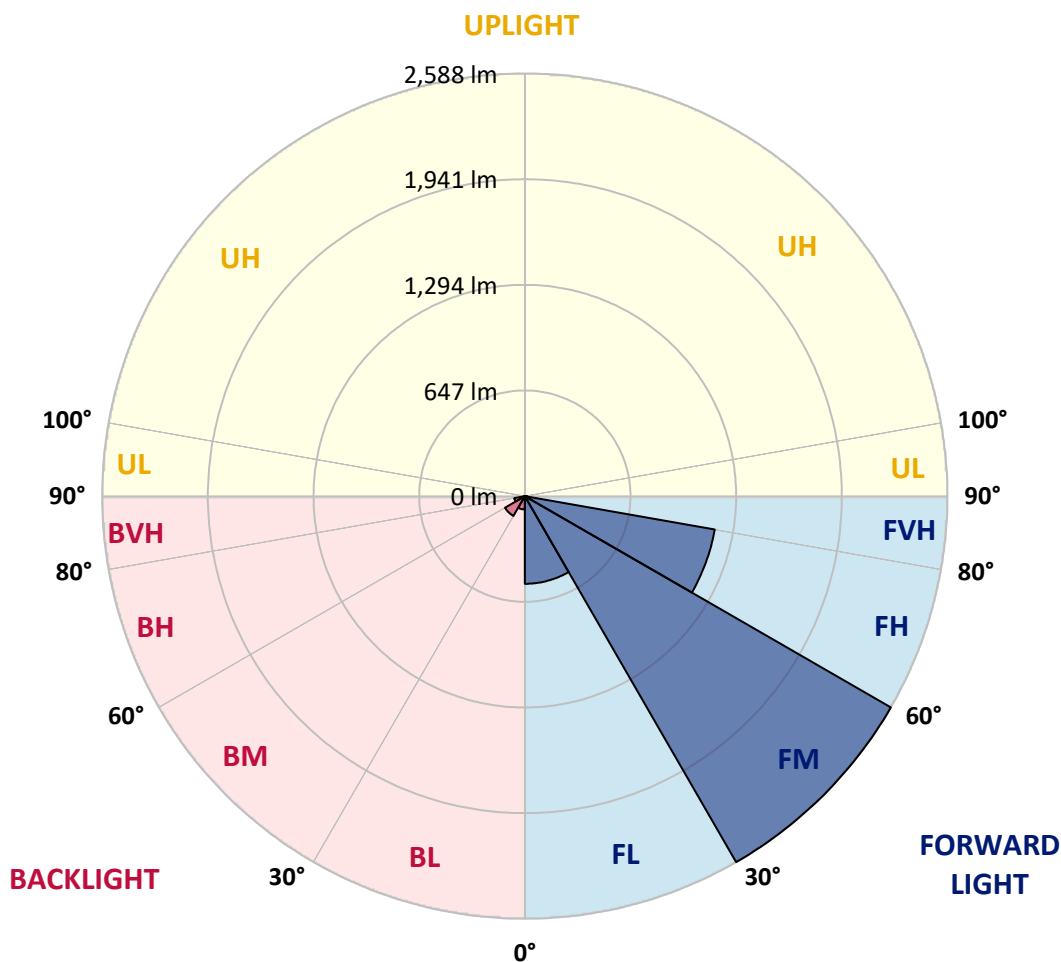
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.8	11.6			
FM (30°-60°)	2587.8	56.2			
FH (60°-80°)	1180.7	25.6			G1/1800
FVH (80°-90°)	14.6	0.3			G1/100
BL (0°-30°)	81.7	1.8	B0/110		
BM (30°-60°)	140.1	3.0	B0/220		
BH (60°-80°)	65.3	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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	662.6	638.5	643.1	633.1	620.2	590.3	558.6	527.0	498.7	492.5	464.2
5°	848.6	841.1	833.2	826.5	799.5	762.0	705.1	632.7	567.4	556.1	497.5
7.5°	992.9	981.7	988.7	968.4	940.1	903.9	831.5	754.1	653.5	636.8	545.7
10°	1099.4	1093.2	1096.5	1086.9	1073.2	1037.0	965.5	868.5	752.1	720.5	599.8
12.5°	1179.3	1180.5	1195.1	1195.9	1184.7	1155.1	1079.4	978.3	841.5	813.2	659.7
15°	1237.5	1238.7	1256.6	1275.8	1288.7	1273.3	1204.6	1091.5	946.7	908.1	722.5
17.5°	1247.1	1247.9	1279.5	1318.2	1358.1	1371.4	1318.6	1203.8	1042.8	998.7	794.5
20°	1253.3	1260.4	1288.7	1333.2	1396.4	1437.6	1408.9	1311.5	1136.0	1084.8	865.2
22.5°	1329.0	1329.0	1345.6	1377.3	1427.6	1492.1	1486.2	1410.5	1226.7	1175.9	935.5
25°	1489.6	1489.6	1473.3	1465.0	1492.1	1542.8	1557.4	1516.2	1330.3	1270.4	1009.5
27.5°	1702.1	1702.1	1676.8	1615.6	1592.3	1613.5	1628.9	1608.1	1425.9	1366.9	1087.7
30°	1922.6	1930.1	1886.0	1808.2	1726.7	1710.4	1695.5	1690.9	1527.8	1461.3	1167.2
32.5°	2143.9	2143.1	2088.1	1991.2	1884.7	1827.3	1778.7	1773.3	1636.0	1570.7	1242.5
35°	2320.7	2321.1	2263.3	2163.8	2040.7	1967.5	1889.3	1863.9	1754.5	1681.7	1332.3
37.5°	2473.7	2465.0	2402.6	2308.2	2193.4	2117.7	2020.3	1954.2	1877.3	1803.2	1422.2
40°	2561.5	2549.9	2489.1	2399.3	2312.3	2254.5	2168.8	2063.2	2012.0	1932.2	1524.5
42.5°	2574.4	2564.4	2524.1	2470.0	2398.9	2348.1	2325.2	2186.3	2153.5	2081.1	1646.8
45°	2538.2	2522.0	2508.7	2480.4	2460.4	2435.9	2467.1	2317.3	2315.7	2243.7	1767.9
47.5°	2448.4	2426.3	2429.7	2460.8	2483.3	2505.4	2602.7	2489.1	2479.2	2411.8	1926.7
50°	2294.9	2284.1	2320.7	2382.2	2471.2	2559.4	2737.9	2664.7	2704.2	2641.0	2146.0
52.5°	1982.9	1996.2	2105.6	2253.7	2407.6	2584.8	2864.8	2926.7	3027.8	2975.8	2366.4
55°	1608.5	1603.5	1749.5	2012.4	2258.3	2568.6	2920.1	3081.1	3240.0	3185.5	2489.1
57.5°	1295.7	1304.5	1403.0	1663.0	2005.0	2443.4	2933.0	3161.7	3325.2	3289.0	2602.7
60°	972.5	980.8	1070.7	1297.0	1668.0	2182.2	2826.5	3190.0	3485.4	3457.9	2784.1
62.5°	619.0	629.8	720.0	940.1	1274.9	1776.2	2587.3	3160.5	3652.6	3675.5	3031.6
65°	304.5	314.1	380.6	549.1	852.3	1328.2	2253.7	3047.8	3865.6	3930.9	3230.0
67.5°	168.5	173.0	195.9	279.5	475.4	911.0	1811.1	2806.9	3963.3	4050.7	3243.3
70°	131.0	132.3	141.0	163.1	231.7	534.5	1288.2	2405.9	3760.7	3866.4	2973.3
72.5°	110.2	111.9	116.1	123.5	144.8	278.3	809.5	1859.4	3164.2	3212.1	2300.3
75°	80.7	83.2	94.8	101.5	114.4	168.9	356.9	1117.3	2091.1	2044.1	1287.0
77.5°	67.8	69.9	72.8	82.4	94.4	115.2	125.2	468.4	851.1	740.0	337.8
80°	46.2	48.7	56.6	61.6	79.9	76.1	52.0	125.6	171.0	139.3	64.9
82.5°	32.9	34.9	39.1	50.3	57.8	40.3	28.3	38.3	41.2	39.1	21.2
85°	10.4	13.3	28.3	41.6	31.2	13.7	17.9	14.6	12.9	12.5	8.3
87.5°	2.1	2.1	14.1	16.6	12.5	7.1	6.2	4.6	5.8	5.8	4.6
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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	450.9	432.2	405.1	379.8	354.0	335.7	322.8	309.9	304.9	302.8	297.4
5°	470.9	435.1	381.4	338.2	306.6	286.6	274.5	264.1	257.5	255.4	252.5
7.5°	499.6	448.0	371.0	321.1	289.5	267.9	248.3	225.9	208.0	200.9	198.0
10°	530.8	467.5	372.7	317.8	275.8	228.4	184.7	148.5	132.7	126.9	122.7
12.5°	576.5	489.2	379.8	314.1	234.6	163.1	118.1	103.2	99.4	98.6	97.8
15°	622.3	519.5	391.4	289.1	175.1	111.1	98.2	92.8	90.7	88.6	88.6
17.5°	668.5	548.7	396.0	240.4	121.0	96.1	89.4	84.9	81.5	79.9	78.6
20°	720.5	579.4	382.7	180.9	96.9	87.8	80.3	74.9	72.0	70.3	69.1
22.5°	776.6	609.8	353.6	126.0	88.2	79.0	72.0	66.6	63.6	62.0	61.6
25°	829.4	636.0	307.0	94.8	79.4	70.7	64.1	59.5	57.4	55.7	55.3
27.5°	883.9	658.5	246.3	83.6	72.4	64.1	57.4	53.7	51.6	50.3	49.9
30°	937.2	673.9	183.4	76.5	66.1	57.8	52.0	49.1	47.0	45.8	45.3
32.5°	992.1	682.6	124.0	70.3	59.9	52.4	47.4	44.5	43.3	42.0	42.0
35°	1044.9	681.4	89.4	64.5	54.9	47.4	42.8	40.8	40.3	39.1	39.1
37.5°	1102.7	672.6	76.1	59.1	49.5	42.8	39.1	37.9	37.4	36.6	36.2
40°	1168.4	653.1	69.5	54.9	44.9	39.1	35.8	34.9	34.5	33.7	33.7
42.5°	1240.4	627.7	65.7	50.3	41.2	35.4	32.9	31.6	31.2	30.4	30.4
45°	1324.0	603.6	63.2	45.8	37.9	32.4	29.9	28.7	28.3	27.5	27.5
47.5°	1438.0	589.8	59.1	41.6	34.1	29.5	27.0	26.2	25.4	24.5	24.5
50°	1594.8	573.6	53.7	37.4	31.2	26.6	25.0	23.7	23.3	22.5	22.5
52.5°	1723.8	539.1	48.3	33.3	27.9	24.5	22.9	22.0	21.2	20.8	20.8
55°	1769.1	498.7	42.8	29.9	25.4	22.9	21.2	20.4	20.0	19.6	19.6
57.5°	1841.5	485.8	37.9	26.6	22.9	21.2	19.6	19.1	18.7	18.3	17.9
60°	1965.0	493.3	33.3	23.7	20.8	19.1	17.9	17.5	16.6	15.8	15.8
62.5°	2084.8	484.2	28.3	20.8	17.9	17.1	15.8	15.0	13.3	12.1	11.2
65°	2113.9	423.0	24.5	17.5	15.0	14.1	12.9	11.2	8.7	7.1	7.1
67.5°	1972.9	321.5	21.2	15.0	12.5	11.6	9.2	7.5	5.4	4.2	4.2
70°	1628.1	203.8	17.5	11.6	10.4	7.9	5.8	5.4	3.7	3.3	2.9
72.5°	1174.7	111.5	14.6	9.6	7.5	5.0	4.2	3.3	2.5	1.7	1.7
75°	594.8	52.4	10.8	7.5	5.0	3.3	2.5	1.7	1.7	1.2	1.2
77.5°	168.5	24.1	7.1	5.0	3.3	2.1	1.7	1.2	1.2	0.8	0.8
80°	33.3	12.1	4.6	3.3	2.5	1.7	1.2	0.8	0.8	0.4	0.4
82.5°	12.1	6.2	3.3	2.5	2.1	1.7	0.8	0.4	0.4	0.0	0.0
85°	6.2	3.3	2.5	2.1	1.7	1.2	0.8	0.4	0.0	0.0	0.0
87.5°	3.3	2.5	2.1	2.1	1.7	1.2	0.8	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)