

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: P674598

Luminaire Tested: **CCP-SA-2B-827-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674598  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-827-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

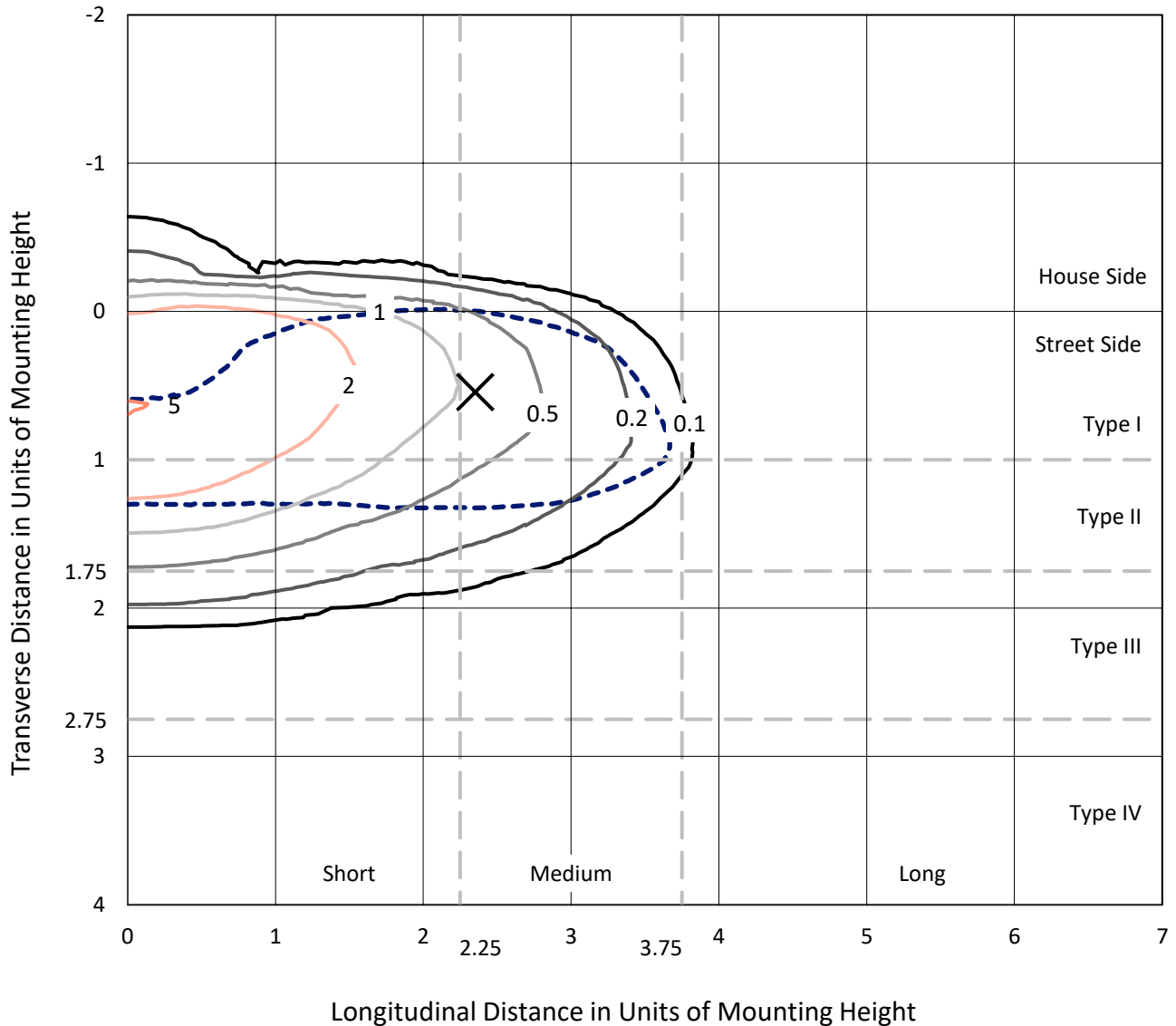
Lumens per Lamp: N/A  
Luminaire Lumens: 4110.7 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P674598  
 CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

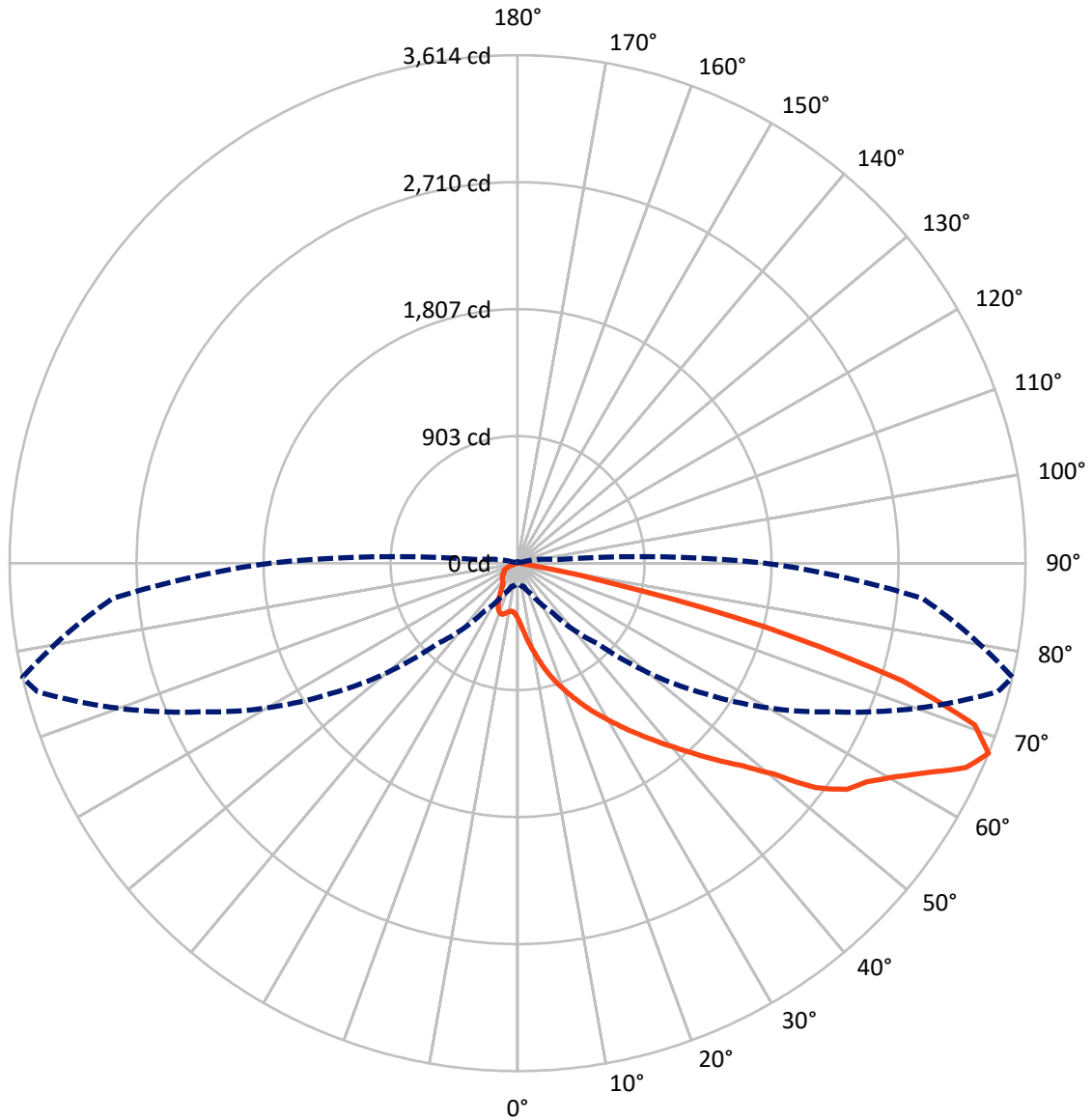
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P674598  
CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P674598

CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

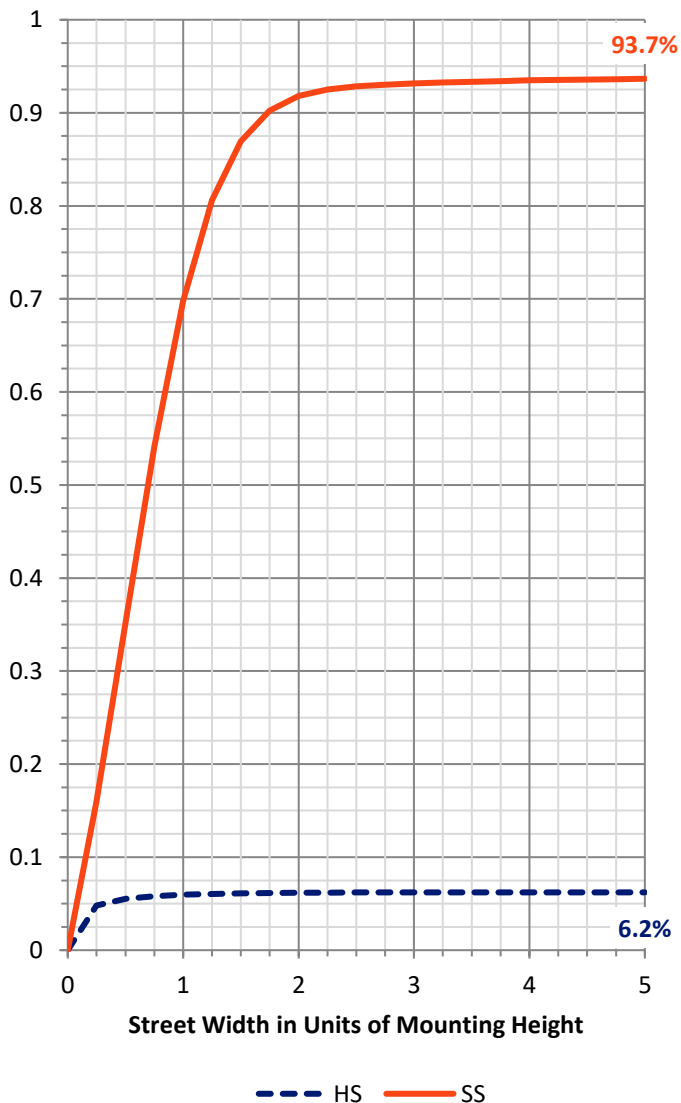
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	256.9	0.0	256.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3853.8	0.0	3853.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4110.7	0.0	4110.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	171.1	4.2
20°-30°	334.3	8.1
30°-40°	584.5	14.2
40°-50°	852.4	20.7
50°-60°	996.7	24.2
60°-70°	808.0	19.7
70°-80°	303.5	7.4
80°-90°	13.8	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°	4110.7	100.0
0°-180°	4110.7	100.0



REPORT NUMBER: P674598

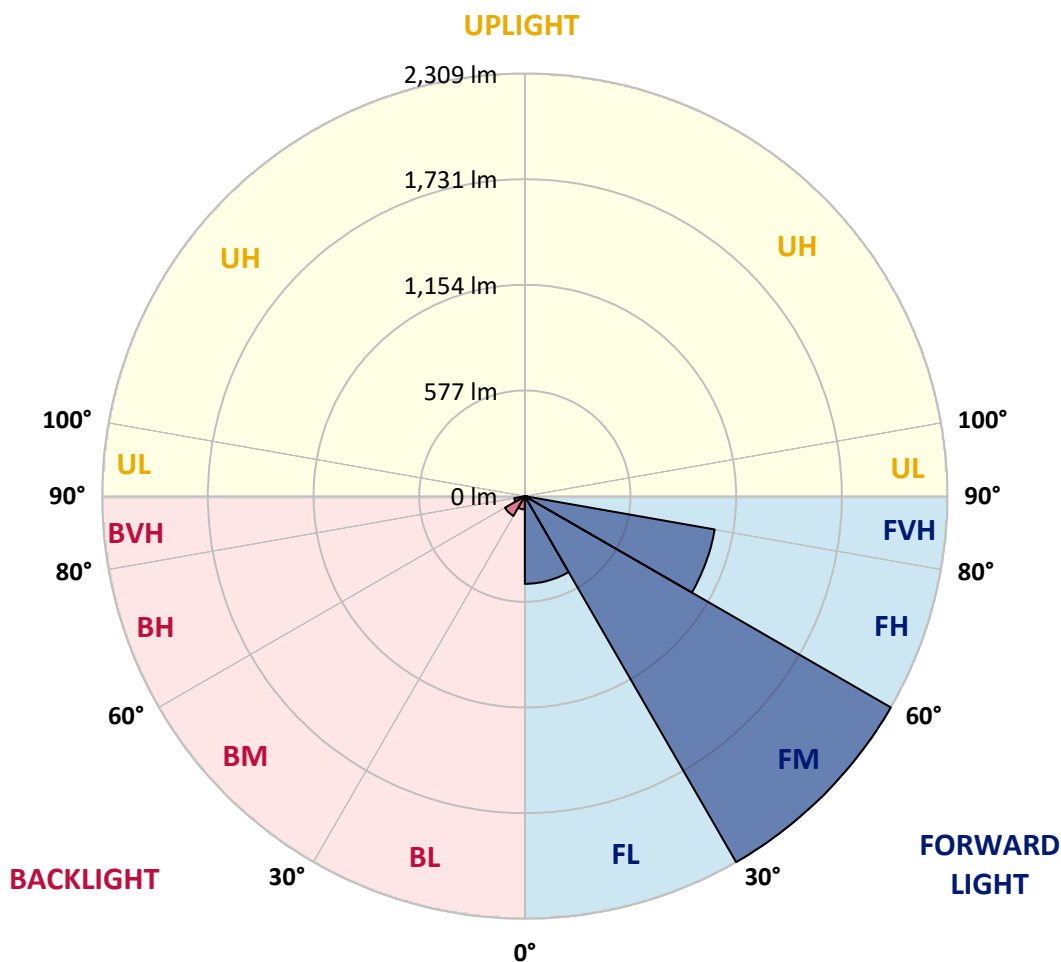
CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.9	11.6			
FM (30°-60°)	2308.6	56.2			
FH (60°-80°)	1053.3	25.6			G1/1800
FVH (80°-90°)	13.0	0.3			G1/100
BL (0°-30°)	72.8	1.8	B0/110		
BM (30°-60°)	125.0	3.0	B0/220		
BH (60°-80°)	58.3	1.4	B0/110		G0/110
BVH (80°-90°)	0.8	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





REPORT NUMBER: P674598

CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
2.5°	591.1	569.6	573.7	564.8	553.3	526.6	498.4	470.2	444.9	439.4	414.1
5°	757.0	750.3	743.3	737.4	713.2	679.8	629.0	564.4	506.2	496.1	443.8
7.5°	885.8	875.8	882.1	863.9	838.7	806.4	741.8	672.8	583.0	568.1	486.9
10°	980.8	975.2	978.2	969.7	957.4	925.1	861.3	774.8	670.9	642.7	535.1
12.5°	1052.0	1053.1	1066.1	1066.9	1056.9	1030.5	963.0	872.8	750.7	725.5	588.5
15°	1104.0	1105.1	1121.1	1138.1	1149.6	1135.9	1074.7	973.7	844.6	810.1	644.6
17.5°	1112.5	1113.3	1141.5	1176.0	1211.6	1223.5	1176.3	1073.9	930.3	891.0	708.8
20°	1118.1	1124.4	1149.6	1189.3	1245.7	1282.5	1256.9	1170.0	1013.4	967.8	771.9
22.5°	1185.6	1185.6	1200.5	1228.7	1273.6	1331.1	1325.9	1258.4	1094.3	1049.1	834.6
25°	1328.9	1328.9	1314.4	1307.0	1331.1	1376.4	1389.4	1352.6	1186.7	1133.3	900.6
27.5°	1518.5	1518.5	1495.9	1441.3	1420.5	1439.4	1453.2	1434.6	1272.1	1219.4	970.4
30°	1715.2	1721.8	1682.5	1613.1	1540.4	1525.9	1512.6	1508.5	1363.0	1303.6	1041.3
32.5°	1912.6	1911.8	1862.9	1776.4	1681.4	1630.2	1586.8	1581.9	1459.5	1401.2	1108.4
35°	2070.3	2070.7	2019.1	1930.4	1820.6	1755.2	1685.5	1662.8	1565.2	1500.3	1188.6
37.5°	2206.9	2199.1	2143.4	2059.2	1956.7	1889.2	1802.4	1743.4	1674.7	1608.7	1268.7
40°	2285.2	2274.8	2220.6	2140.4	2062.9	2011.3	1934.8	1840.6	1794.9	1723.7	1360.0
42.5°	2296.7	2287.8	2251.8	2203.5	2140.1	2094.8	2074.4	1950.4	1921.1	1856.5	1469.1
45°	2264.4	2249.9	2238.0	2212.8	2195.0	2173.1	2200.9	2067.3	2065.8	2001.6	1577.1
47.5°	2184.2	2164.6	2167.5	2195.4	2215.4	2235.1	2321.9	2220.6	2211.7	2151.6	1718.9
50°	2047.3	2037.6	2070.3	2125.2	2204.6	2283.3	2442.5	2377.2	2412.4	2356.0	1914.4
52.5°	1769.0	1780.8	1878.4	2010.6	2147.9	2305.9	2555.7	2611.0	2701.1	2654.8	2111.1
55°	1435.0	1430.5	1560.8	1795.3	2014.6	2291.5	2605.0	2748.6	2890.4	2841.8	2220.6
57.5°	1155.9	1163.7	1251.7	1483.6	1788.6	2179.8	2616.5	2820.6	2966.5	2934.2	2321.9
60°	867.6	875.0	955.2	1157.0	1488.1	1946.7	2521.5	2845.9	3109.3	3084.8	2483.7
62.5°	552.2	561.8	642.4	838.7	1137.4	1584.5	2308.2	2819.5	3258.5	3278.9	2704.5
65°	271.6	280.2	339.5	489.8	760.4	1184.9	2010.6	2719.0	3448.5	3506.8	2881.5
67.5°	150.3	154.4	174.8	249.4	424.2	812.7	1615.7	2504.1	3535.7	3613.6	2893.4
70°	116.9	118.0	125.8	145.5	206.7	476.8	1149.3	2146.4	3355.0	3449.3	2652.5
72.5°	98.3	99.8	103.5	110.2	129.1	248.3	722.1	1658.8	2822.9	2865.5	2052.1
75°	72.0	74.2	84.6	90.5	102.0	150.7	318.4	996.7	1865.5	1823.5	1148.1
77.5°	60.5	62.3	64.9	73.5	84.2	102.8	111.7	417.8	759.2	660.2	301.3
80°	41.2	43.4	50.5	54.9	71.2	67.9	46.4	112.1	152.5	124.3	57.9
82.5°	29.3	31.2	34.9	44.9	51.6	36.0	25.2	34.1	36.7	34.9	18.9
85°	9.3	11.9	25.2	37.1	27.8	12.2	16.0	13.0	11.5	11.1	7.4
87.5°	1.9	1.9	12.6	14.8	11.1	6.3	5.6	4.1	5.2	5.2	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P674598  
 CATALOG NUMBER: CCP-SA-2B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
2.5°	402.3	385.6	361.4	338.8	315.8	299.5	288.0	276.5	272.0	270.2	265.3
5°	420.1	388.2	340.3	301.7	273.5	255.7	244.9	235.6	229.7	227.8	225.2
7.5°	445.7	399.7	331.0	286.5	258.3	239.0	221.5	201.5	185.5	179.2	176.6
10°	473.5	417.1	332.5	283.5	246.0	203.7	164.8	132.5	118.4	113.2	109.5
12.5°	514.3	436.4	338.8	280.2	209.3	145.5	105.4	92.0	88.7	87.9	87.2
15°	555.1	463.5	349.2	257.9	156.2	99.1	87.6	82.8	80.9	79.0	79.0
17.5°	596.3	489.5	353.3	214.5	108.0	85.7	79.8	75.7	72.7	71.2	70.1
20°	642.7	516.9	341.4	161.4	86.5	78.3	71.6	66.8	64.2	62.7	61.6
22.5°	692.8	544.0	315.4	112.4	78.7	70.5	64.2	59.4	56.8	55.3	54.9
25°	739.9	567.4	273.9	84.6	70.9	63.1	57.1	53.1	51.2	49.7	49.4
27.5°	788.6	587.4	219.7	74.6	64.6	57.1	51.2	47.9	46.0	44.9	44.5
30°	836.1	601.2	163.6	68.3	59.0	51.6	46.4	43.8	41.9	40.8	40.4
32.5°	885.0	609.0	110.6	62.7	53.4	46.8	42.3	39.7	38.6	37.5	37.5
35°	932.2	607.8	79.8	57.5	49.0	42.3	38.2	36.4	36.0	34.9	34.9
37.5°	983.8	600.0	67.9	52.7	44.2	38.2	34.9	33.8	33.4	32.7	32.3
40°	1042.4	582.6	62.0	49.0	40.1	34.9	31.9	31.2	30.8	30.1	30.1
42.5°	1106.6	560.0	58.6	44.9	36.7	31.5	29.3	28.2	27.8	27.1	27.1
45°	1181.2	538.4	56.4	40.8	33.8	28.9	26.7	25.6	25.2	24.5	24.5
47.5°	1282.8	526.2	52.7	37.1	30.4	26.3	24.1	23.4	22.6	21.9	21.9
50°	1422.7	511.7	47.9	33.4	27.8	23.7	22.3	21.2	20.8	20.0	20.0
52.5°	1537.8	480.9	43.0	29.7	24.9	21.9	20.4	19.7	18.9	18.6	18.6
55°	1578.2	444.9	38.2	26.7	22.6	20.4	18.9	18.2	17.8	17.4	17.4
57.5°	1642.8	433.4	33.8	23.7	20.4	18.9	17.4	17.1	16.7	16.3	16.0
60°	1753.0	440.1	29.7	21.2	18.6	17.1	16.0	15.6	14.8	14.1	14.1
62.5°	1859.9	431.9	25.2	18.6	16.0	15.2	14.1	13.4	11.9	10.8	10.0
65°	1885.9	377.4	21.9	15.6	13.4	12.6	11.5	10.0	7.8	6.3	6.3
67.5°	1760.1	286.9	18.9	13.4	11.1	10.4	8.2	6.7	4.8	3.7	3.7
70°	1452.4	181.8	15.6	10.4	9.3	7.1	5.2	4.8	3.3	3.0	2.6
72.5°	1048.0	99.5	13.0	8.5	6.7	4.5	3.7	3.0	2.2	1.5	1.5
75°	530.7	46.8	9.6	6.7	4.5	3.0	2.2	1.5	1.5	1.1	1.1
77.5°	150.3	21.5	6.3	4.5	3.0	1.9	1.5	1.1	1.1	0.7	0.7
80°	29.7	10.8	4.1	3.0	2.2	1.5	1.1	0.7	0.7	0.4	0.4
82.5°	10.8	5.6	3.0	2.2	1.9	1.5	0.7	0.4	0.4	0.0	0.0
85°	5.6	3.0	2.2	1.9	1.5	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	3.0	2.2	1.9	1.9	1.5	1.1	0.7	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)