

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: P673597

Luminaire Tested: **CCP-SA-1D-830-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673597  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-830-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T4W distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

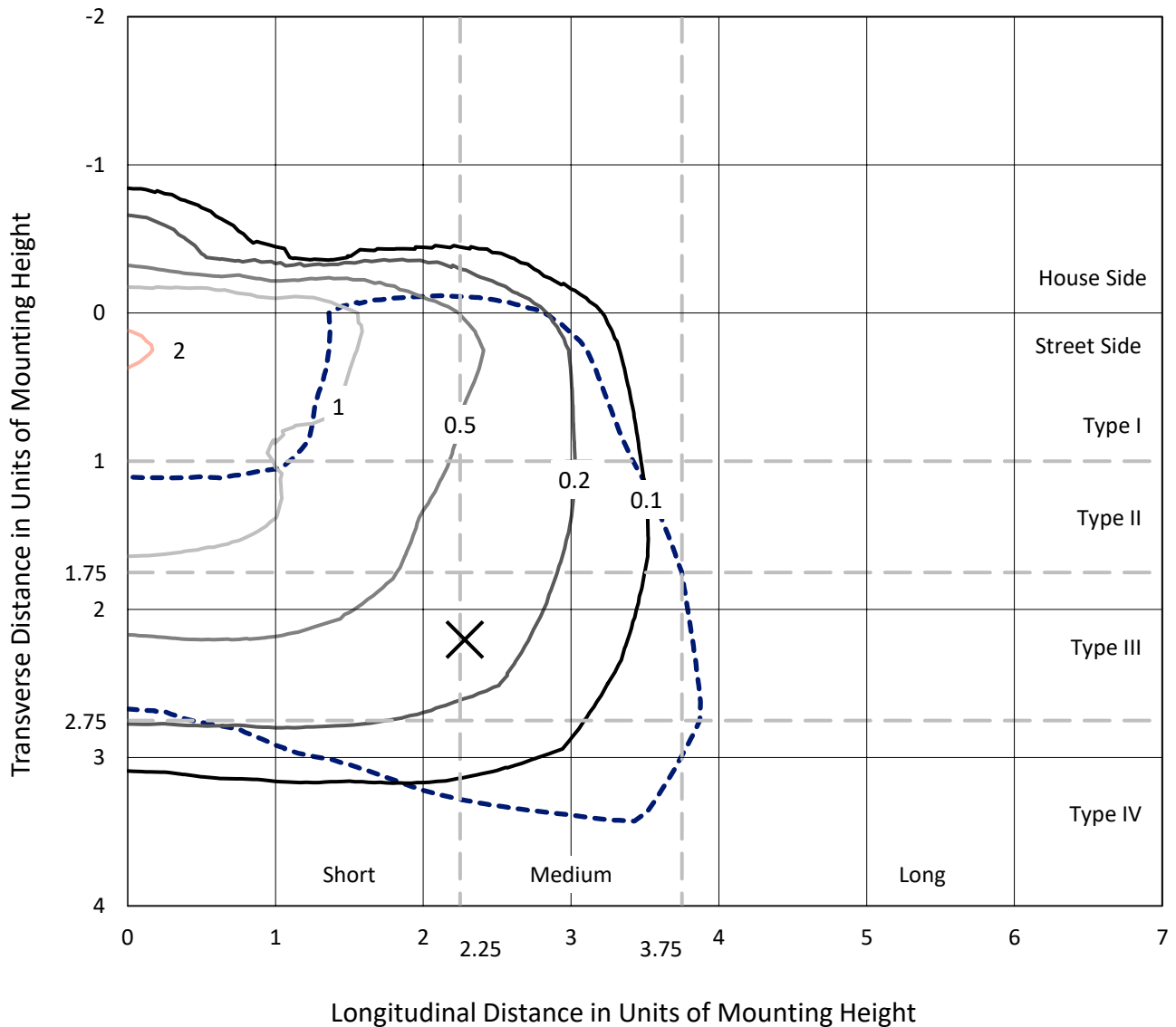
Lumens per Lamp: N/A  
Luminaire Lumens: 3197.2 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

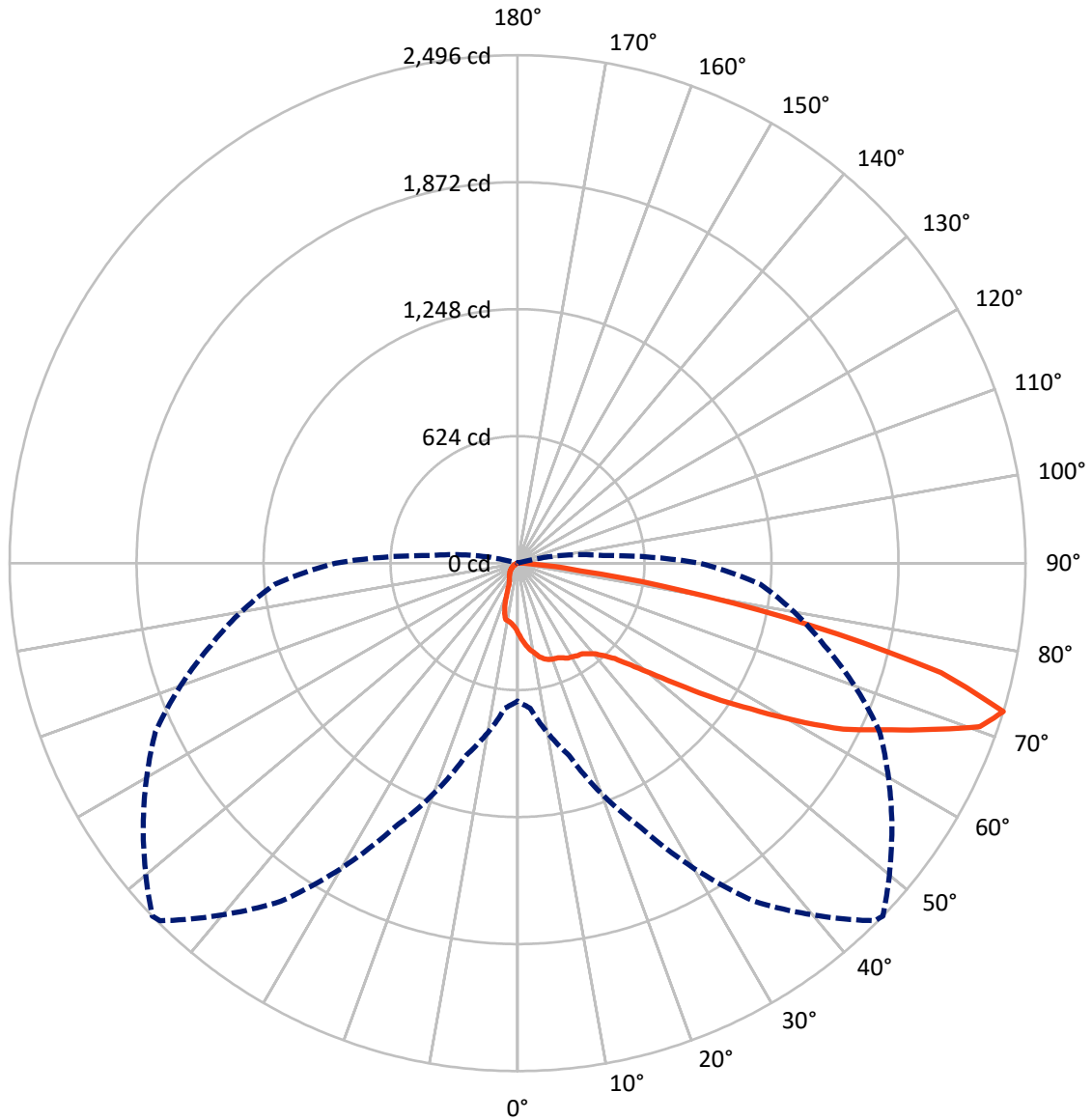
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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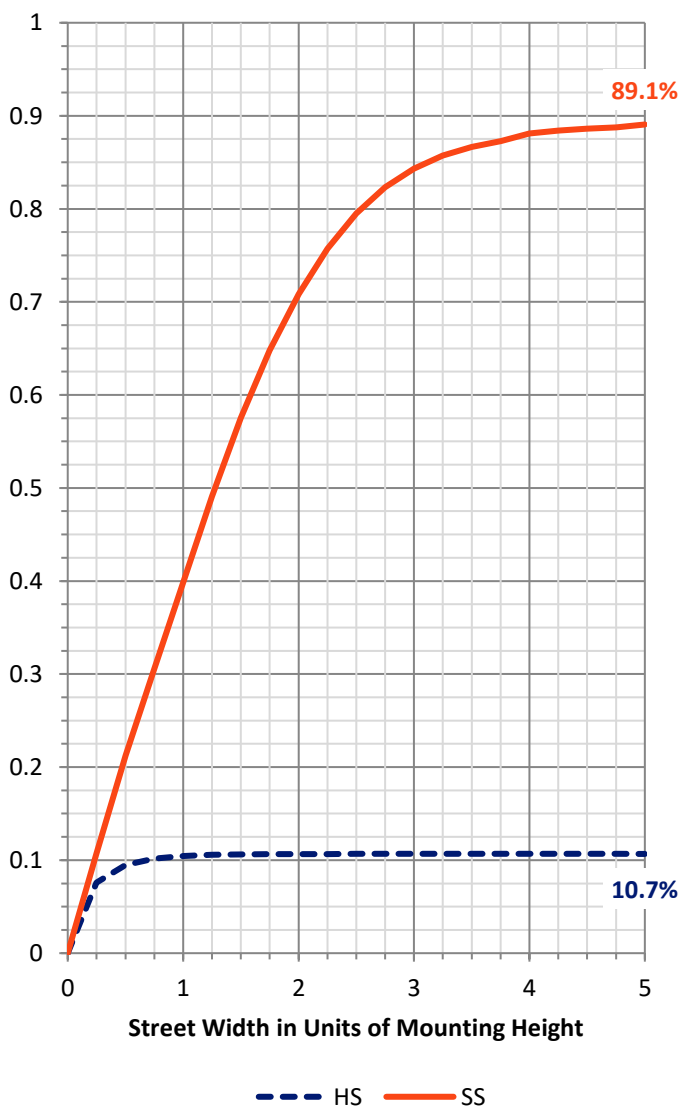
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	344.2	0.0	344.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2853.0	0.0	2853.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3197.2	0.0	3197.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	1.1
10°-20°	103.2	3.2
20°-30°	161.6	5.1
30°-40°	226.4	7.1
40°-50°	373.3	11.7
50°-60°	670.9	21.0
60°-70°	972.4	30.4
70°-80°	606.9	19.0
80°-90°	48.1	1.5
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°	3197.2	100.0
0°-180°	3197.2	100.0



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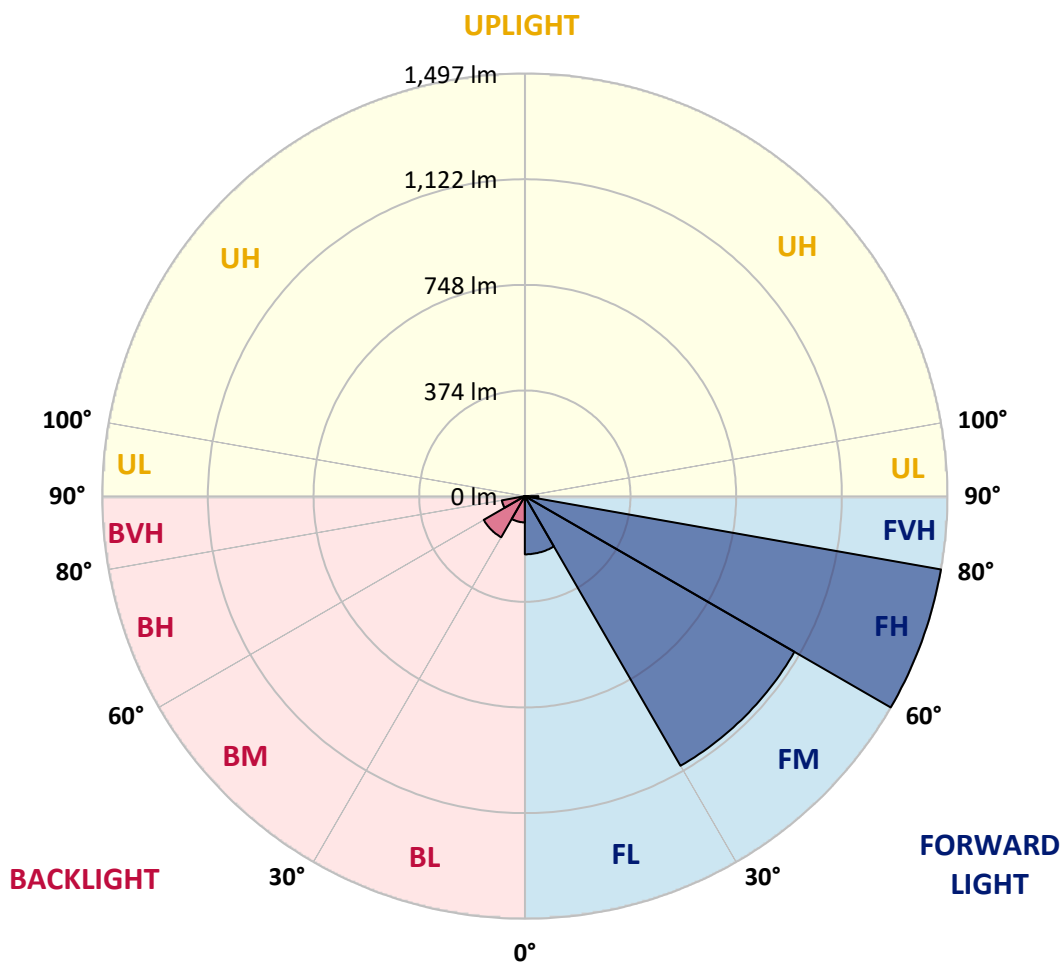
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.1	6.4			
FM (30°-60°)	1102.4	34.5			
FH (60°-80°)	1496.6	46.8			G1/1800
FVH (80°-90°)	47.8	1.5			G1/100
BL (0°-30°)	93.0	2.9	B0/110		
BM (30°-60°)	168.2	5.3	B0/220		
BH (60°-80°)	82.8	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	382.5	380.8	383.3	382.5	372.7	374.3	373.5	367.0	355.6	349.0	345.0
5°	426.5	430.6	427.3	420.0	414.3	402.9	401.2	390.6	372.7	361.3	349.0
7.5°	472.2	472.2	465.7	454.2	442.0	429.8	428.1	410.2	394.7	375.1	358.0
10°	506.4	502.4	497.5	485.2	471.4	455.1	446.9	433.9	416.7	393.1	371.1
12.5°	536.6	530.1	521.9	504.0	487.7	469.7	471.4	450.2	438.7	417.5	384.9
15°	553.7	548.0	540.7	524.4	499.1	490.9	487.7	474.6	454.2	433.0	402.0
17.5°	557.8	553.7	543.9	522.7	508.9	499.1	498.3	482.8	473.8	455.9	421.6
20°	549.7	542.3	535.0	521.1	508.1	504.8	502.4	502.4	490.9	467.3	433.9
22.5°	535.8	527.6	523.6	515.4	504.8	504.0	505.6	504.0	495.0	479.5	446.9
25°	525.2	521.1	514.6	512.1	505.6	517.8	515.4	513.0	510.5	492.6	467.3
27.5°	528.5	527.6	522.7	513.0	508.1	521.1	528.5	529.3	528.5	510.5	486.0
30°	530.1	526.0	521.1	518.7	520.3	533.3	533.3	551.3	543.9	526.0	504.8
32.5°	548.8	546.4	530.1	524.4	525.2	540.7	541.5	559.4	557.0	544.8	521.1
35°	588.8	572.5	548.8	532.5	532.5	552.9	546.4	572.5	579.0	559.4	532.5
37.5°	648.3	636.1	593.7	557.0	543.1	557.8	564.3	579.0	598.6	581.5	555.4
40°	766.6	764.1	703.8	624.7	570.0	583.1	585.5	608.4	621.4	597.8	590.4
42.5°	939.5	927.2	871.0	746.2	619.0	613.3	622.2	636.9	667.9	648.3	630.4
45°	1108.3	1102.6	1046.3	906.8	707.9	673.6	668.7	694.8	740.5	719.3	705.4
47.5°	1230.6	1219.2	1187.4	1070.0	838.3	744.6	747.8	773.9	831.8	815.5	819.6
50°	1324.4	1318.7	1285.2	1220.8	1003.1	856.3	849.8	875.9	954.1	964.7	976.2
52.5°	1427.1	1437.7	1392.9	1338.3	1198.0	1006.3	991.7	1000.6	1101.8	1126.2	1158.0
55°	1525.8	1542.9	1498.1	1490.8	1401.9	1172.7	1170.3	1149.1	1279.5	1282.8	1299.9
57.5°	1590.2	1584.5	1581.3	1621.2	1605.7	1363.5	1351.3	1330.1	1448.3	1427.1	1478.5
60°	1595.1	1611.5	1666.1	1764.8	1792.5	1587.8	1569.9	1512.0	1594.3	1543.8	1641.6
62.5°	1631.8	1644.9	1746.0	1882.2	1918.1	1785.2	1797.4	1650.6	1719.1	1679.1	1822.7
65°	1538.9	1579.6	1782.7	1973.5	2082.8	1985.0	1972.7	1829.2	1847.1	1809.6	2001.3
67.5°	1454.9	1470.4	1682.4	2001.3	2213.3	2185.6	2180.7	1987.4	1979.2	1909.9	2051.8
70°	1182.5	1201.2	1410.8	1859.4	2257.3	2419.6	2408.2	2209.2	2069.0	1855.3	1792.5
72.5°	677.7	715.2	977.8	1432.0	2028.2	2484.9	2495.5	2245.1	1962.9	1560.1	1197.2
75°	221.8	232.4	406.1	811.4	1516.9	2167.6	2148.9	1929.5	1583.7	1030.0	540.7
77.5°	75.0	76.7	119.9	293.6	840.8	1464.7	1475.3	1379.0	972.9	428.1	149.2
80°	38.3	40.8	58.7	110.1	345.8	797.6	814.7	786.2	407.8	126.4	35.9
82.5°	17.9	18.8	34.3	61.2	158.2	313.2	313.2	344.1	144.3	70.9	14.7
85°	6.5	6.5	17.9	35.1	66.9	104.4	105.2	106.0	75.8	53.0	6.5
87.5°	2.4	2.4	9.0	14.7	24.5	31.8	31.8	25.3	38.3	35.1	2.4
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°	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7
2.5°	343.3	338.4	334.4	328.7	321.3	317.2	318.0	313.2	313.2	310.7	309.9
5°	343.3	338.4	327.8	318.0	311.5	303.4	299.3	296.0	296.0	294.4	295.2
7.5°	345.8	338.4	323.8	310.7	300.1	292.0	285.4	284.6	283.0	278.9	282.2
10°	360.5	349.9	325.4	307.4	295.2	286.2	274.8	271.6	266.7	259.3	260.1
12.5°	372.7	358.8	336.8	312.3	296.8	282.2	256.1	227.5	215.3	202.2	203.1
15°	390.6	371.1	340.9	318.9	296.8	249.5	202.2	165.5	146.0	136.2	136.2
17.5°	400.4	384.1	352.3	322.9	273.2	203.1	143.5	111.7	108.5	110.1	110.1
20°	420.8	398.8	365.3	326.2	234.1	144.3	105.2	101.9	103.6	106.8	106.0
22.5°	433.9	411.8	375.1	311.5	181.0	103.6	98.7	97.0	98.7	102.8	102.8
25°	444.5	430.6	390.6	275.6	128.0	93.8	92.2	93.8	95.4	97.0	99.5
27.5°	470.6	446.9	401.2	229.2	92.2	87.3	88.9	89.7	89.7	92.2	93.0
30°	487.7	468.9	409.4	177.0	81.6	80.7	82.4	83.2	84.0	86.4	87.3
32.5°	504.0	497.5	398.8	119.9	76.7	75.0	74.2	75.0	78.3	80.7	79.9
35°	527.6	523.6	383.3	83.2	71.8	68.5	66.9	67.7	70.1	72.6	71.8
37.5°	556.2	560.3	345.8	72.6	66.9	62.8	59.5	59.5	60.3	62.8	63.6
40°	589.6	600.2	301.7	67.7	63.6	58.7	55.5	51.4	50.6	49.7	50.6
42.5°	650.8	663.0	252.0	64.4	58.7	53.0	48.1	43.2	39.1	36.7	36.7
45°	736.4	726.6	186.8	61.2	56.3	48.1	40.8	35.1	29.4	26.9	26.9
47.5°	854.7	821.2	128.0	57.9	52.2	42.4	34.3	26.9	22.0	19.6	19.6
50°	1018.6	908.5	83.2	54.6	49.7	36.7	27.7	19.6	16.3	15.5	16.3
52.5°	1173.5	997.4	66.1	50.6	44.9	31.8	21.2	16.3	14.7	13.9	13.9
55°	1316.2	1042.2	58.7	46.5	40.8	26.1	17.9	13.9	13.0	12.2	12.2
57.5°	1436.9	1057.7	50.6	40.8	32.6	20.4	14.7	12.2	10.6	9.8	9.8
60°	1541.3	1061.8	39.1	32.6	23.6	15.5	12.2	10.6	9.0	7.3	7.3
62.5°	1624.5	1033.3	27.7	22.8	16.3	12.2	10.6	7.3	4.9	3.3	2.4
65°	1690.6	976.2	18.8	15.5	10.6	9.0	6.5	3.3	0.8	0.0	0.0
67.5°	1613.1	846.5	14.7	11.4	7.3	5.7	3.3	0.8	0.0	0.0	0.0
70°	1315.4	656.5	10.6	7.3	4.9	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	895.4	423.3	8.2	4.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	402.0	151.7	5.7	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	97.9	35.9	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.1	9.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	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)