

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: P671147

Luminaire Tested: **CCP-SA-1B-830-U-T4W**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671147  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-830-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4W distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

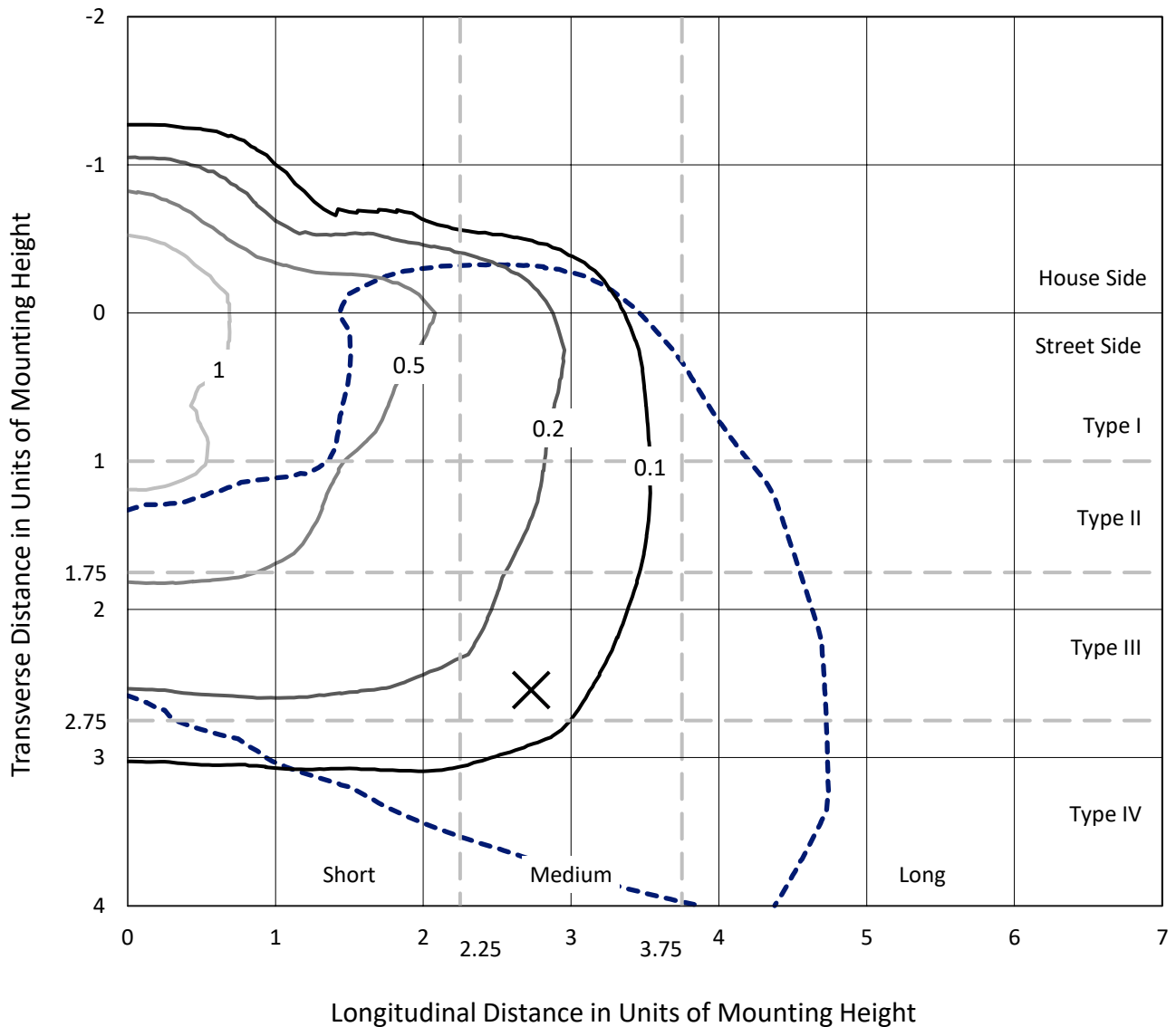
Lumens per Lamp: N/A  
Luminaire Lumens: 2768.5 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

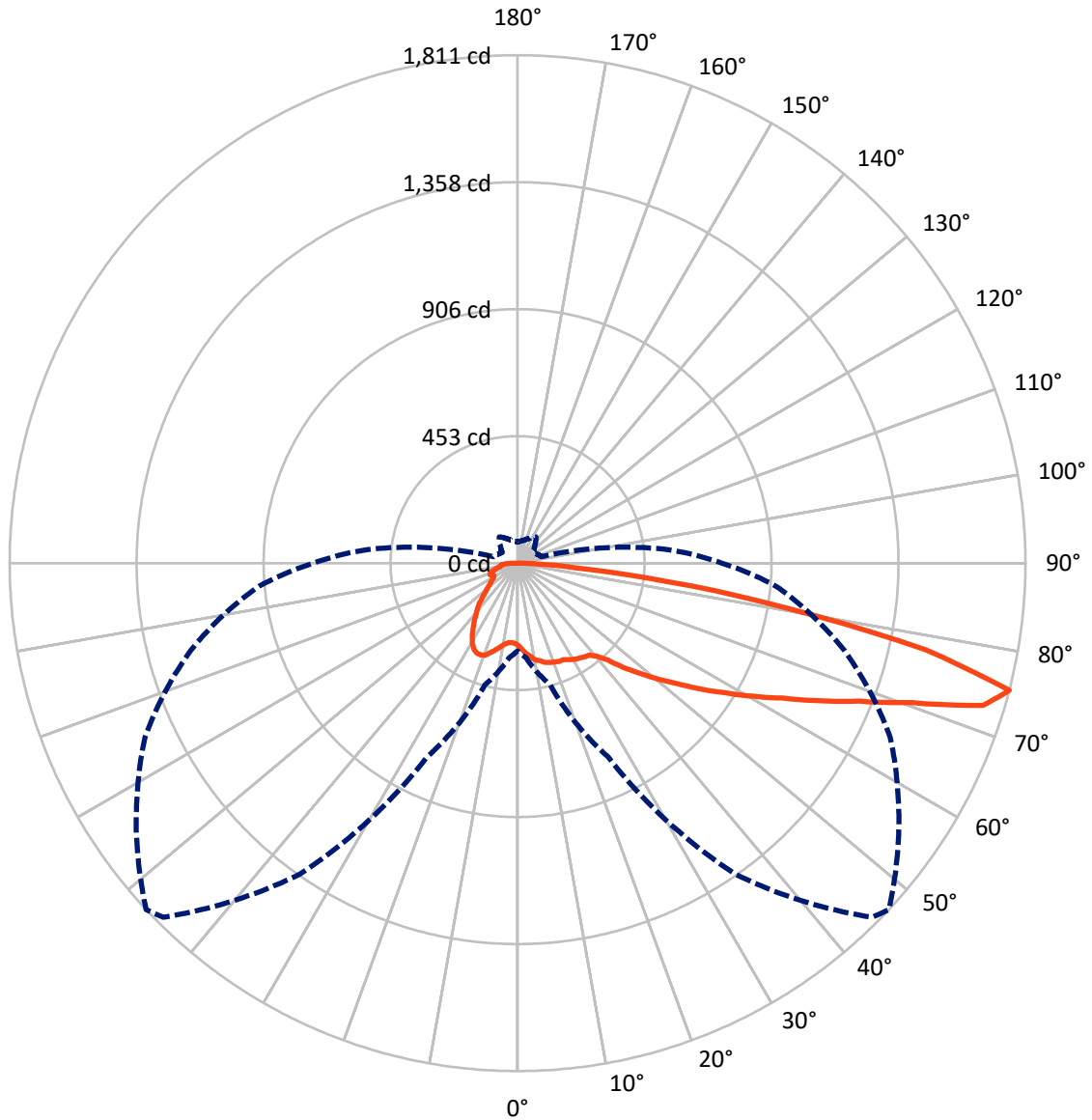
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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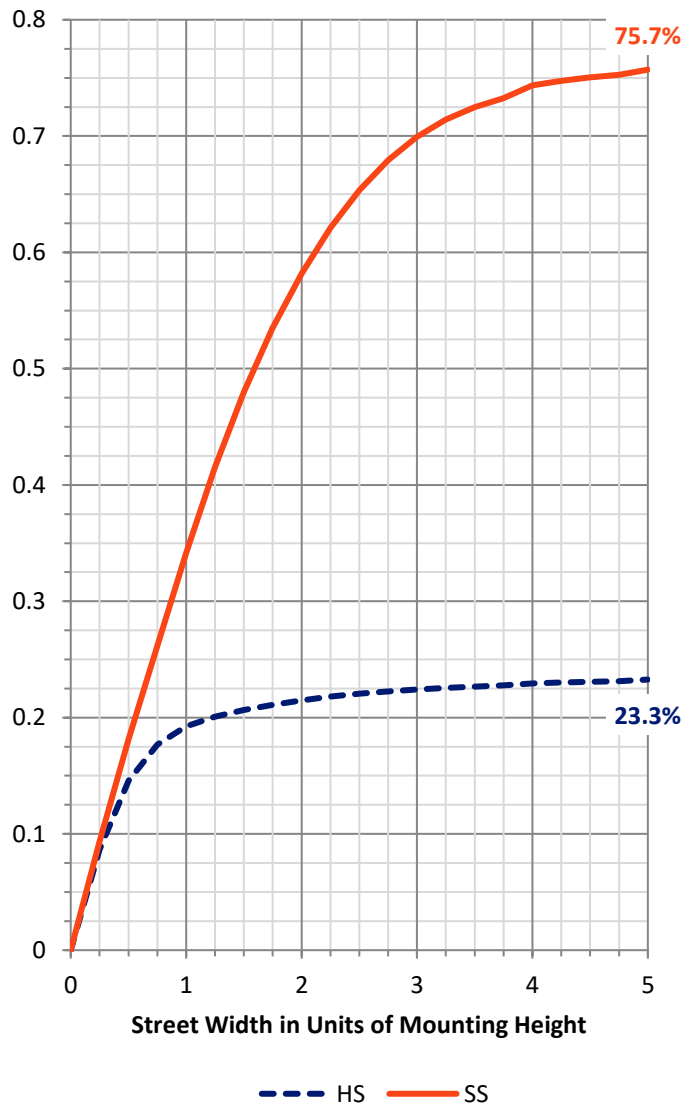
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	662.1	0.0	662.1
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2106.4	0.0	2106.4
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2768.5	0.0	2768.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	1.1
10°-20°	98.7	3.6
20°-30°	169.0	6.1
30°-40°	236.5	8.5
40°-50°	329.8	11.9
50°-60°	492.9	17.8
60°-70°	710.6	25.7
70°-80°	604.9	21.8
80°-90°	96.4	3.5
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°	2768.5	100.0
0°-180°	2768.5	100.0



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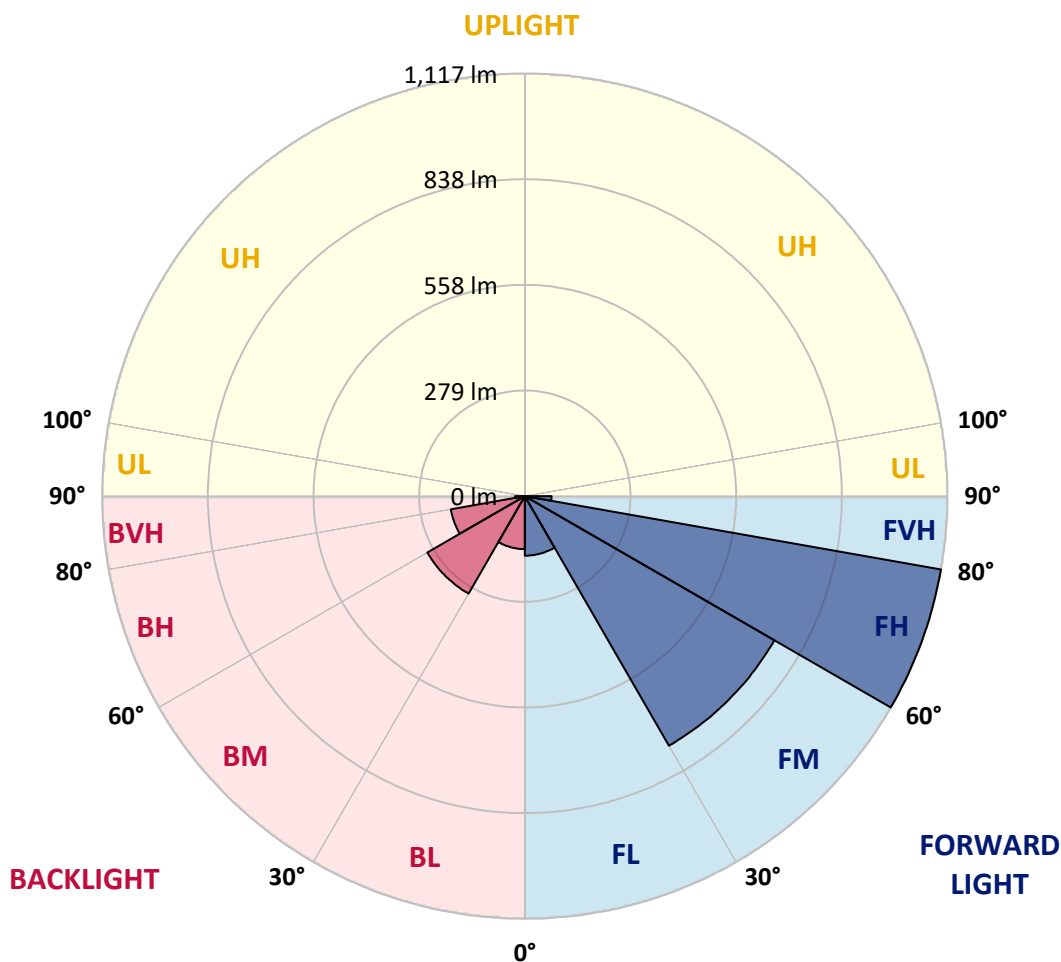
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.3	5.7			
FM (30°-60°)	761.6	27.5			
FH (60°-80°)	1116.9	40.3			G1/1800
FVH (80°-90°)	70.6	2.6			G1/100
BL (0°-30°)	140.1	5.1	B1/500		
BM (30°-60°)	297.6	10.7	B1/1000		
BH (60°-80°)	198.6	7.2	B1/500		G1/500
BVH (80°-90°)	25.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	315.2	316.2	316.2	314.2	312.1	308.1	308.1	304.1	302.0	297.0	295.0
5°	344.5	341.4	338.4	337.4	332.3	325.3	324.3	320.2	309.1	304.1	297.0
7.5°	365.7	364.7	363.7	359.6	350.5	339.4	336.4	330.3	319.2	309.1	301.0
10°	382.8	386.9	382.8	373.8	364.7	352.5	351.5	340.4	330.3	318.2	308.1
12.5°	402.0	403.0	396.0	384.9	370.7	360.6	356.6	352.5	341.4	331.3	316.2
15°	415.2	413.1	408.1	392.9	376.8	366.7	367.7	362.6	350.5	343.4	327.3
17.5°	415.2	415.2	407.1	396.0	381.8	372.7	372.7	369.7	361.6	351.5	340.4
20°	407.1	407.1	402.0	396.0	379.8	377.8	375.8	373.8	373.8	364.7	348.5
22.5°	397.0	395.0	397.0	386.9	375.8	377.8	380.8	379.8	376.8	368.7	357.6
25°	386.9	387.9	389.9	382.8	372.7	381.8	380.8	385.9	383.9	377.8	368.7
27.5°	385.9	387.9	388.9	381.8	377.8	385.9	389.9	395.0	396.0	389.9	378.8
30°	401.0	400.0	399.0	389.9	386.9	394.0	398.0	405.1	411.1	398.0	388.9
32.5°	440.4	434.4	428.3	404.1	395.0	400.0	404.1	414.2	415.2	408.1	395.0
35°	503.0	499.0	478.8	436.4	411.1	406.1	410.1	417.2	419.2	414.2	404.1
37.5°	574.8	572.7	544.5	492.9	444.5	420.2	416.2	426.3	434.4	423.2	409.1
40°	645.5	637.4	617.2	566.7	486.9	441.4	436.4	441.4	444.5	436.4	427.3
42.5°	709.1	700.0	695.0	644.5	542.4	476.8	472.7	460.6	469.7	459.6	447.5
45°	762.7	760.6	758.6	715.2	606.1	534.4	531.3	500.0	510.1	502.0	484.9
47.5°	801.0	810.1	807.1	782.9	678.8	596.0	586.9	546.5	561.6	553.6	536.4
50°	846.5	851.5	848.5	832.4	746.5	666.7	649.5	608.1	625.3	624.3	615.2
52.5°	886.9	902.1	884.9	883.9	843.5	743.5	714.2	674.8	703.1	714.2	713.2
55°	934.4	946.5	941.4	939.4	930.3	818.2	791.9	744.5	791.9	808.1	822.3
57.5°	974.8	973.8	993.0	1016.2	1027.3	904.1	872.8	817.2	888.9	907.1	946.5
60°	993.0	1010.1	1042.5	1101.1	1132.4	996.0	963.7	919.2	986.9	1001.0	1073.8
62.5°	1005.1	1020.2	1082.9	1181.9	1200.0	1089.9	1059.6	1015.2	1094.0	1104.1	1212.2
65°	971.8	985.9	1110.1	1212.2	1276.8	1191.0	1183.9	1137.4	1201.1	1207.1	1357.6
67.5°	933.4	948.5	1086.9	1250.6	1378.8	1325.3	1314.2	1258.6	1307.1	1300.0	1468.7
70°	865.7	885.9	1027.3	1283.9	1492.0	1513.2	1491.0	1412.2	1417.2	1350.6	1473.8
72.5°	659.6	672.8	804.1	1151.6	1544.5	1773.8	1735.4	1577.8	1520.3	1360.7	1301.1
75°	313.1	337.4	448.5	761.6	1353.6	1785.9	1811.2	1659.7	1465.7	1207.1	922.3
77.5°	90.9	90.9	136.4	323.2	848.5	1439.4	1486.9	1409.1	1209.1	894.0	484.9
80°	49.5	52.5	71.7	114.1	372.7	908.1	976.8	934.4	712.1	353.5	125.3
82.5°	28.3	29.3	47.5	68.7	169.7	494.0	534.4	484.9	270.7	107.1	58.6
85°	16.2	17.2	27.3	45.5	101.0	181.8	198.0	171.7	109.1	71.7	29.3
87.5°	8.1	8.1	13.1	21.2	51.5	51.5	50.5	61.6	65.7	43.4	13.1
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	294.0	292.9	292.9	288.9	287.9	284.9	284.9	282.8	281.8	284.9	284.9
5°	295.0	289.9	288.9	284.9	285.9	283.8	287.9	285.9	284.9	284.9	283.8
7.5°	297.0	291.9	287.9	284.9	283.8	286.9	291.9	291.9	298.0	295.0	295.0
10°	302.0	299.0	294.0	291.9	291.9	295.0	301.0	305.1	310.1	310.1	307.1
12.5°	314.2	309.1	303.0	300.0	304.1	307.1	313.1	317.2	323.2	325.3	323.2
15°	323.2	318.2	316.2	314.2	317.2	321.2	326.3	330.3	337.4	339.4	338.4
17.5°	335.4	329.3	328.3	329.3	331.3	334.4	337.4	340.4	345.5	345.5	345.5
20°	341.4	339.4	338.4	341.4	345.5	349.5	347.5	345.5	344.5	346.5	345.5
22.5°	352.5	350.5	351.5	354.6	354.6	352.5	349.5	342.4	340.4	342.4	340.4
25°	362.6	360.6	360.6	358.6	357.6	350.5	344.5	338.4	331.3	334.4	333.3
27.5°	372.7	371.7	371.7	363.7	353.5	341.4	333.3	326.3	322.2	327.3	324.3
30°	384.9	385.9	380.8	361.6	337.4	324.3	315.2	314.2	313.1	316.2	315.2
32.5°	396.0	397.0	388.9	358.6	325.3	300.0	290.9	291.9	297.0	302.0	307.1
35°	402.0	407.1	397.0	348.5	301.0	272.7	262.6	271.7	280.8	287.9	292.9
37.5°	413.1	426.3	409.1	337.4	279.8	248.5	241.4	244.5	255.6	266.7	271.7
40°	429.3	444.5	412.1	316.2	251.5	224.3	220.2	221.2	225.3	232.3	237.4
42.5°	457.6	473.8	415.2	288.9	223.2	209.1	198.0	195.0	191.9	191.9	190.9
45°	499.0	514.2	411.1	254.6	195.0	184.9	176.8	169.7	161.6	148.5	150.5
47.5°	559.6	571.7	414.2	224.3	168.7	160.6	154.6	146.5	134.3	120.2	119.2
50°	651.5	633.4	410.1	192.9	149.5	142.4	137.4	126.3	112.1	102.0	101.0
52.5°	758.6	722.2	406.1	166.7	133.3	127.3	123.2	111.1	98.0	92.9	91.9
55°	887.9	835.4	412.1	143.4	121.2	116.2	112.1	101.0	90.9	86.9	85.9
57.5°	1040.4	957.6	445.5	125.3	108.1	106.1	105.1	96.0	86.9	83.8	82.8
60°	1183.9	1074.8	467.7	112.1	96.0	98.0	100.0	96.0	85.9	83.8	83.8
62.5°	1304.1	1171.8	432.3	101.0	89.9	96.0	105.1	102.0	98.0	100.0	98.0
65°	1410.2	1205.1	323.2	95.0	86.9	101.0	116.2	115.2	106.1	108.1	107.1
67.5°	1428.3	1164.7	211.1	89.9	84.9	111.1	130.3	118.2	100.0	100.0	97.0
70°	1352.6	1056.6	141.4	84.9	83.8	111.1	133.3	111.1	93.9	93.9	89.9
72.5°	1110.1	844.5	109.1	79.8	76.8	99.0	126.3	105.1	87.9	85.9	78.8
75°	729.3	544.5	88.9	75.8	66.7	86.9	114.1	97.0	83.8	77.8	74.8
77.5°	357.6	244.5	74.8	66.7	57.6	75.8	104.0	91.9	78.8	72.7	70.7
80°	98.0	87.9	62.6	58.6	48.5	65.7	98.0	87.9	73.7	67.7	64.6
82.5°	55.6	54.5	50.5	47.5	40.4	65.7	99.0	87.9	69.7	68.7	58.6
85°	30.3	32.3	36.4	35.4	31.3	58.6	93.9	76.8	56.6	47.5	47.5
87.5°	12.1	15.2	18.2	20.2	21.2	43.4	70.7	58.6	43.4	36.4	36.4
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)