

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: P671014

Luminaire Tested: **CCP-SA-1B-835-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671014  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-835-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2844 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

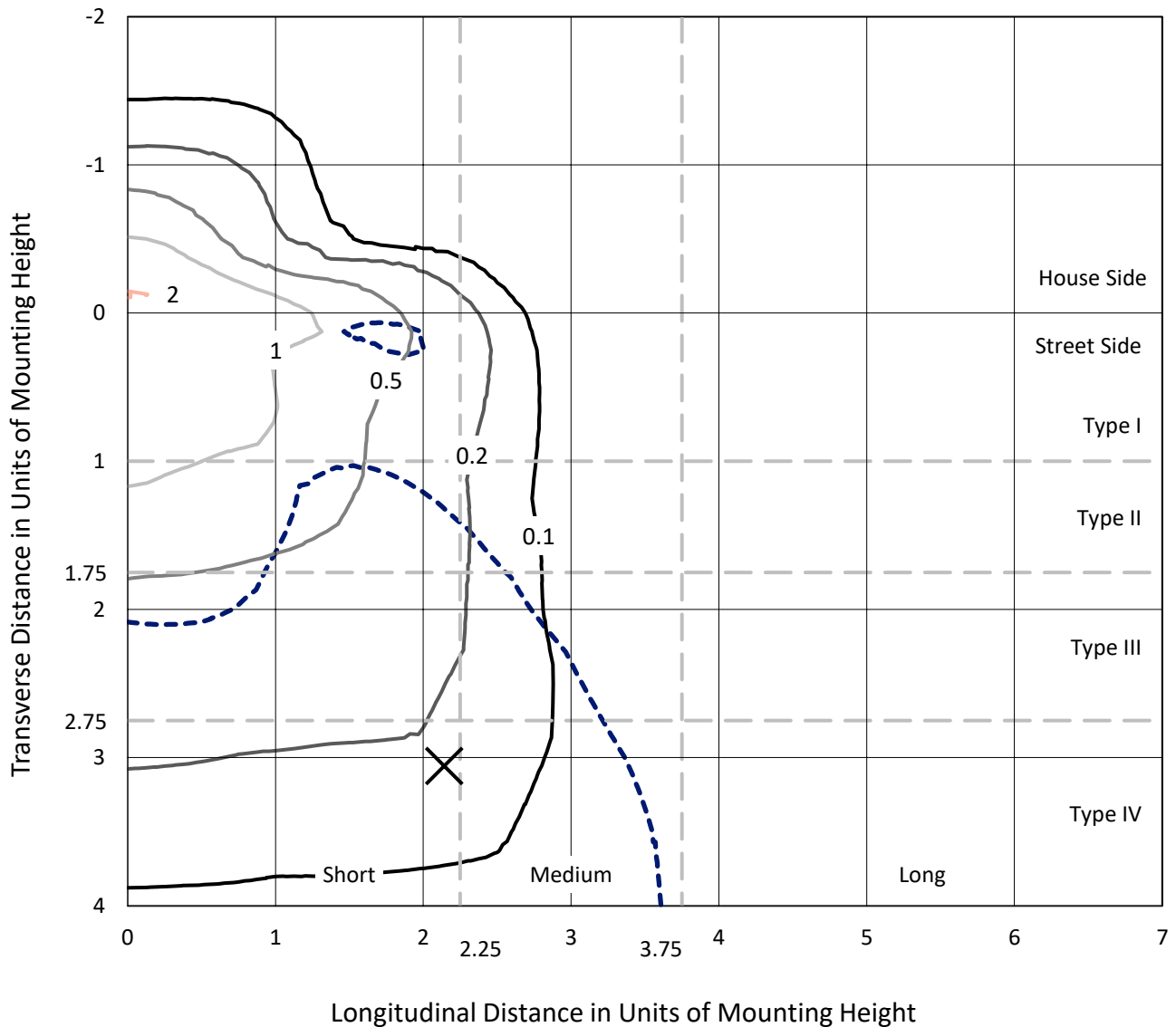
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

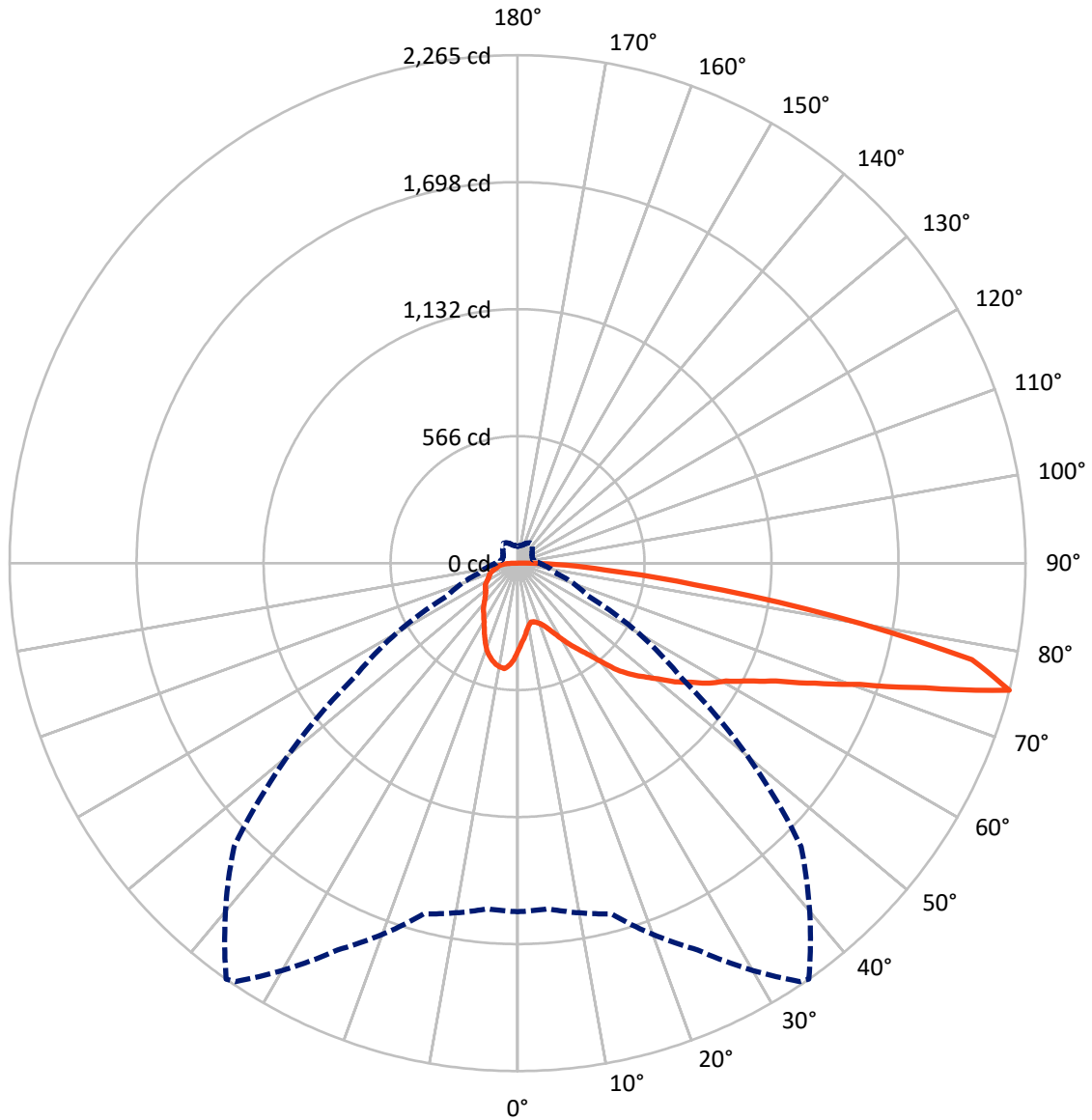
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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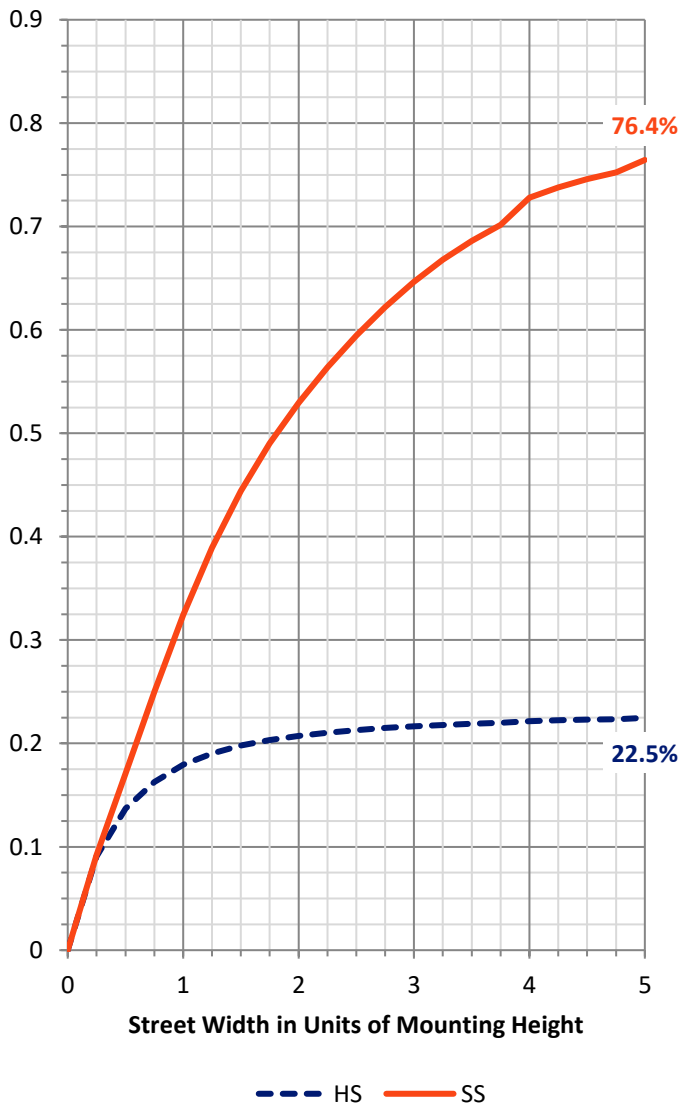
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.6	0.0	653.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2190.4	0.0	2190.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	2844.0	0.0	2844.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.1	1.3
10°-20°	107.8	3.8
20°-30°	178.8	6.3
30°-40°	265.0	9.3
40°-50°	382.2	13.4
50°-60°	525.5	18.5
60°-70°	649.2	22.8
70°-80°	593.9	20.9
80°-90°	104.5	3.7
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°	2844.0	100.0
0°-180°	2844.0	100.0



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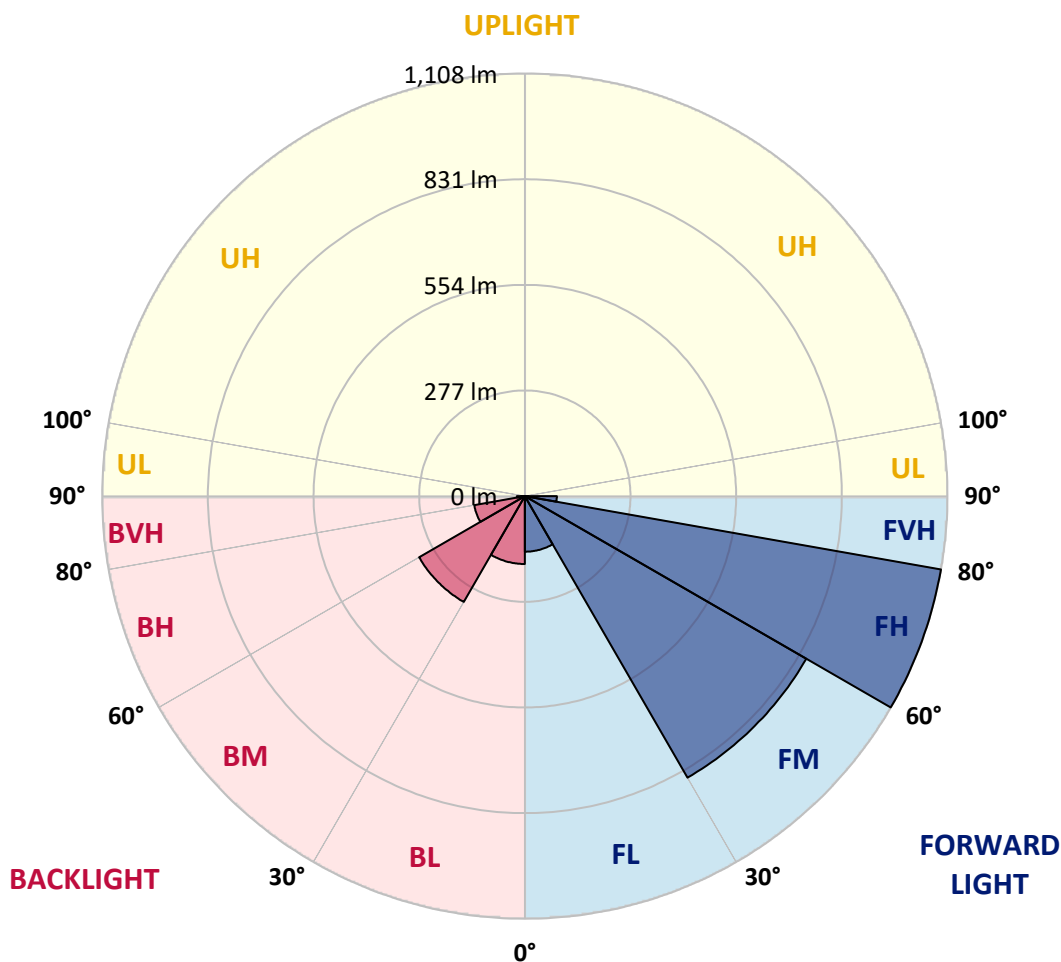
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.8	5.1			
FM (30°-60°)	852.5	30.0			
FH (60°-80°)	1108.3	39.0			G1/1800
FVH (80°-90°)	83.9	3.0			G1/100
BL (0°-30°)	177.9	6.3	B1/500		
BM (30°-60°)	320.3	11.3	B1/1000		
BH (60°-80°)	134.8	4.7	B1/500		G1/500
BVH (80°-90°)	20.6	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	353.0	349.8	353.0	355.1	355.1	355.1	358.2	367.7	373.9	378.1	385.5
5°	316.3	317.4	319.5	324.7	327.8	329.9	335.2	346.7	356.1	369.7	385.5
7.5°	283.9	286.0	289.1	294.3	301.7	300.6	312.1	327.8	345.7	363.5	386.5
10°	267.1	271.3	272.3	273.4	280.7	280.7	296.4	314.2	336.2	359.3	386.5
12.5°	270.2	270.2	267.1	266.0	270.2	269.2	282.8	303.8	327.8	360.3	390.7
15°	279.7	279.7	273.4	267.1	273.4	271.3	282.8	299.6	327.8	361.4	399.1
17.5°	292.2	293.3	286.0	275.5	277.6	278.6	287.0	302.7	327.8	363.5	410.6
20°	317.4	312.1	300.6	283.9	291.2	288.0	300.6	314.2	334.1	371.8	427.4
22.5°	339.4	339.4	317.4	302.7	303.8	303.8	315.3	326.8	343.6	383.4	439.9
25°	375.0	372.9	345.7	323.7	325.8	326.8	333.1	346.7	359.3	389.6	455.6
27.5°	420.0	414.8	387.6	362.4	354.0	357.2	360.3	370.8	373.9	400.1	474.5
30°	468.2	460.9	437.8	398.0	393.8	394.9	389.6	395.9	391.7	416.9	493.3
32.5°	498.6	498.6	476.6	447.3	435.7	435.7	417.9	422.1	422.1	432.6	526.9
35°	524.8	522.7	508.0	486.0	478.7	474.5	456.7	463.0	452.5	463.0	574.0
37.5°	564.6	558.3	552.0	537.3	522.7	519.5	510.1	514.3	499.6	494.4	627.4
40°	610.7	607.5	601.2	594.9	580.3	579.2	568.8	572.9	557.2	537.3	680.8
42.5°	678.7	669.3	649.4	644.2	647.3	651.5	647.3	640.0	611.7	586.6	738.4
45°	746.8	732.2	694.5	686.1	710.2	707.0	724.8	721.7	675.6	635.8	799.2
47.5°	790.8	778.2	747.9	742.6	753.1	757.3	810.7	801.3	728.0	680.8	857.9
50°	822.2	823.3	783.5	797.1	810.7	810.7	877.8	876.7	791.9	736.3	934.3
52.5°	868.3	853.7	836.9	849.5	868.3	878.8	961.5	938.5	831.7	783.5	1020.2
55°	892.4	886.1	871.5	893.5	933.3	938.5	1026.5	1008.7	876.7	839.0	1108.2
57.5°	901.8	907.1	931.2	940.6	996.1	1009.7	1085.1	1060.0	918.6	908.1	1176.3
60°	943.7	936.4	968.9	1006.6	1060.0	1067.3	1158.5	1104.0	959.5	953.2	1198.3
62.5°	1028.6	1009.7	1027.5	1072.6	1146.9	1156.4	1236.0	1162.7	977.3	983.5	1197.2
65°	1152.2	1138.6	1112.4	1148.0	1252.7	1266.4	1327.1	1212.9	972.0	973.1	1112.4
67.5°	1297.8	1275.8	1248.5	1270.5	1398.3	1429.8	1438.1	1234.9	935.4	914.4	905.0
70°	1425.6	1410.9	1393.1	1430.8	1608.9	1620.4	1576.4	1221.3	833.8	734.3	603.3
72.5°	1545.0	1537.6	1548.1	1689.5	1893.8	1901.1	1706.3	1135.4	658.8	445.2	280.7
75°	1554.4	1547.1	1619.3	1903.2	2250.9	2264.6	1786.9	890.3	347.7	181.2	118.4
77.5°	1052.7	1074.7	1209.8	1666.5	2067.6	2070.8	1461.2	413.7	143.5	106.8	82.7
80°	258.7	287.0	455.6	862.0	1394.1	1428.7	800.2	139.3	94.3	81.7	61.8
82.5°	94.3	102.6	185.4	389.6	783.5	797.1	279.7	75.4	68.1	62.8	45.0
85°	45.0	46.1	88.0	191.7	395.9	391.7	100.6	45.0	49.2	42.9	27.2
87.5°	18.9	18.9	38.8	89.0	174.9	169.7	32.5	20.9	28.3	25.1	13.6
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°	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6	389.6
2.5°	390.7	392.8	401.2	407.5	413.7	419.0	427.4	427.4	432.6	432.6	432.6
5°	389.6	401.2	414.8	429.4	438.9	448.3	456.7	457.7	460.9	465.1	466.1
7.5°	393.8	405.4	427.4	448.3	459.8	464.0	474.5	471.3	471.3	471.3	474.5
10°	402.2	414.8	445.2	464.0	472.4	473.4	470.3	468.2	461.9	459.8	456.7
12.5°	408.5	430.5	460.9	475.5	472.4	469.3	461.9	451.4	444.1	442.0	442.0
15°	424.2	446.2	474.5	479.7	474.5	457.7	448.3	436.8	430.5	421.1	425.3
17.5°	437.8	463.0	488.1	481.8	471.3	445.2	431.5	414.8	406.4	395.9	395.9
20°	455.6	478.7	500.7	483.9	460.9	432.6	410.6	389.6	378.1	367.7	369.7
22.5°	475.5	496.5	508.0	475.5	445.2	412.7	382.3	362.4	347.7	341.5	343.6
25°	491.2	514.3	512.2	461.9	426.3	387.6	354.0	335.2	332.0	325.8	325.8
27.5°	511.1	535.2	509.1	445.2	394.9	347.7	326.8	319.5	319.5	316.3	318.4
30°	537.3	554.1	501.7	421.1	355.1	312.1	301.7	305.9	313.2	310.0	311.1
32.5°	580.3	578.2	495.4	393.8	313.2	277.6	284.9	293.3	299.6	302.7	304.8
35°	622.2	608.6	488.1	357.2	274.4	260.8	267.1	276.5	288.0	291.2	292.2
37.5°	664.1	640.0	475.5	312.1	250.3	246.1	252.4	257.7	267.1	269.2	271.3
40°	708.1	660.9	453.5	268.1	230.4	230.4	234.6	235.7	240.9	244.1	246.1
42.5°	746.8	680.8	413.7	227.3	209.5	216.8	217.9	215.8	211.6	213.7	214.7
45°	794.0	702.8	367.7	198.0	193.8	203.2	205.3	196.9	189.6	185.4	183.3
47.5°	840.0	725.9	327.8	173.9	179.1	193.8	193.8	184.3	171.8	161.3	157.1
50°	881.9	748.9	295.4	159.2	164.4	186.4	188.5	170.7	157.1	144.5	142.5
52.5°	952.1	787.7	261.9	147.7	156.1	181.2	180.2	164.4	146.6	133.0	132.0
55°	1013.9	826.4	217.9	136.2	147.7	173.9	177.0	158.2	134.1	121.5	119.4
57.5°	1059.0	835.9	173.9	124.6	139.3	165.5	169.7	145.6	125.7	115.2	114.2
60°	1067.3	799.2	141.4	115.2	127.8	154.0	157.1	138.3	119.4	111.0	108.9
62.5°	1028.6	729.0	120.5	106.8	118.4	142.5	148.7	129.9	113.1	105.8	104.7
65°	940.6	626.4	105.8	99.5	112.1	134.1	141.4	123.6	107.9	101.6	100.6
67.5°	744.7	480.8	94.3	94.3	103.7	125.7	136.2	119.4	102.6	98.5	97.4
70°	487.1	289.1	85.9	86.9	97.4	118.4	129.9	114.2	96.4	95.3	93.2
72.5°	209.5	133.0	76.5	79.6	88.0	105.8	120.5	106.8	89.0	85.9	82.7
75°	96.4	80.7	69.1	71.2	78.6	93.2	108.9	98.5	82.7	77.5	74.4
77.5°	68.1	58.7	57.6	61.8	67.0	80.7	96.4	92.2	76.5	72.3	70.2
80°	50.3	45.0	48.2	52.4	55.5	74.4	91.1	84.8	70.2	63.9	60.8
82.5°	35.6	33.5	37.7	41.9	45.0	64.9	83.8	74.4	58.7	53.4	48.2
85°	20.9	22.0	26.2	28.3	31.4	48.2	70.2	59.7	45.0	34.6	33.5
87.5°	9.4	9.4	12.6	13.6	15.7	28.3	47.1	37.7	28.3	22.0	20.9
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)