

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: P670936

Luminaire Tested: **CCP-SA-1A-730-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670936  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-730-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4FT distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

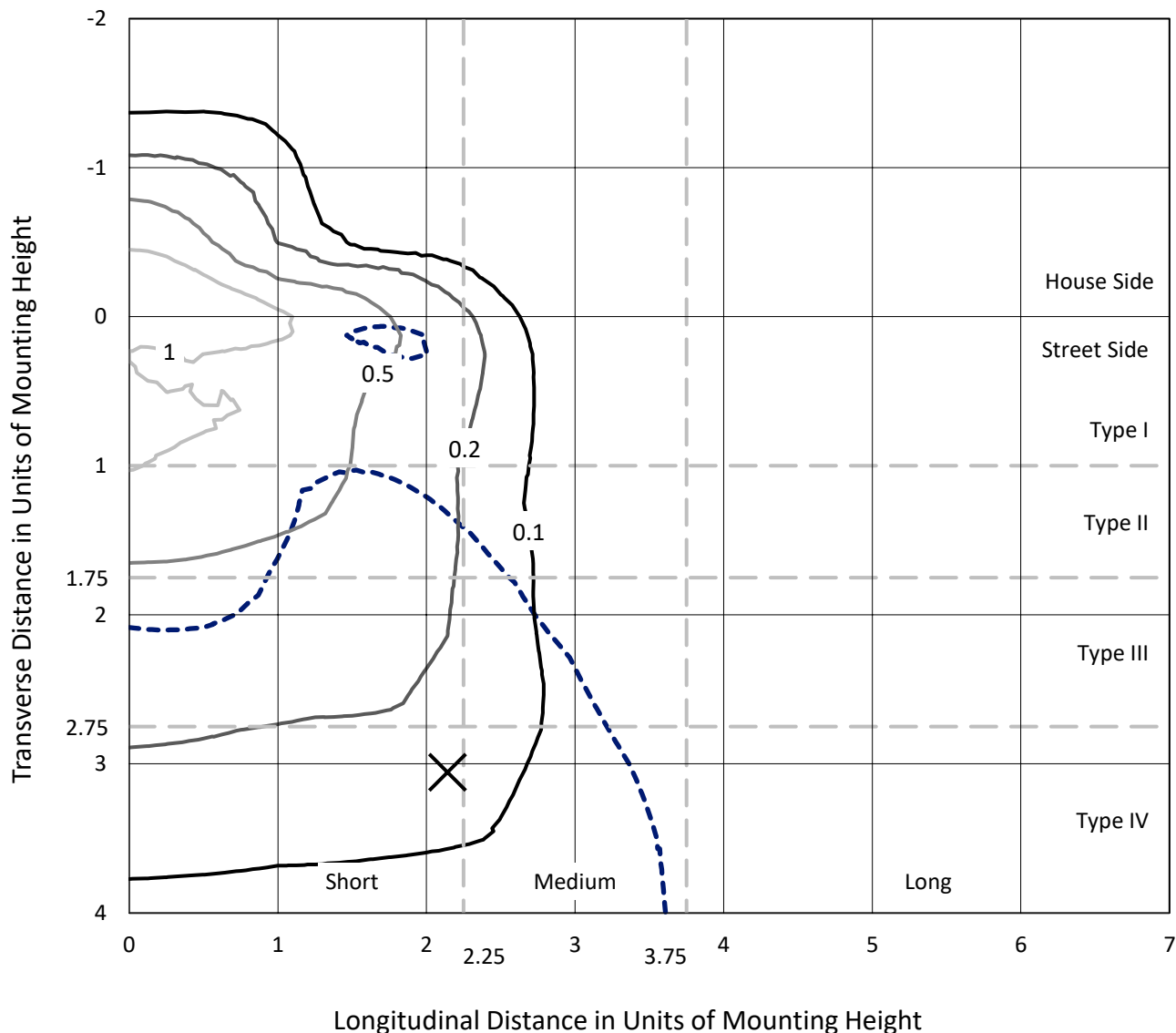
Lumens per Lamp: N/A  
Luminaire Lumens: 2489.7 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
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

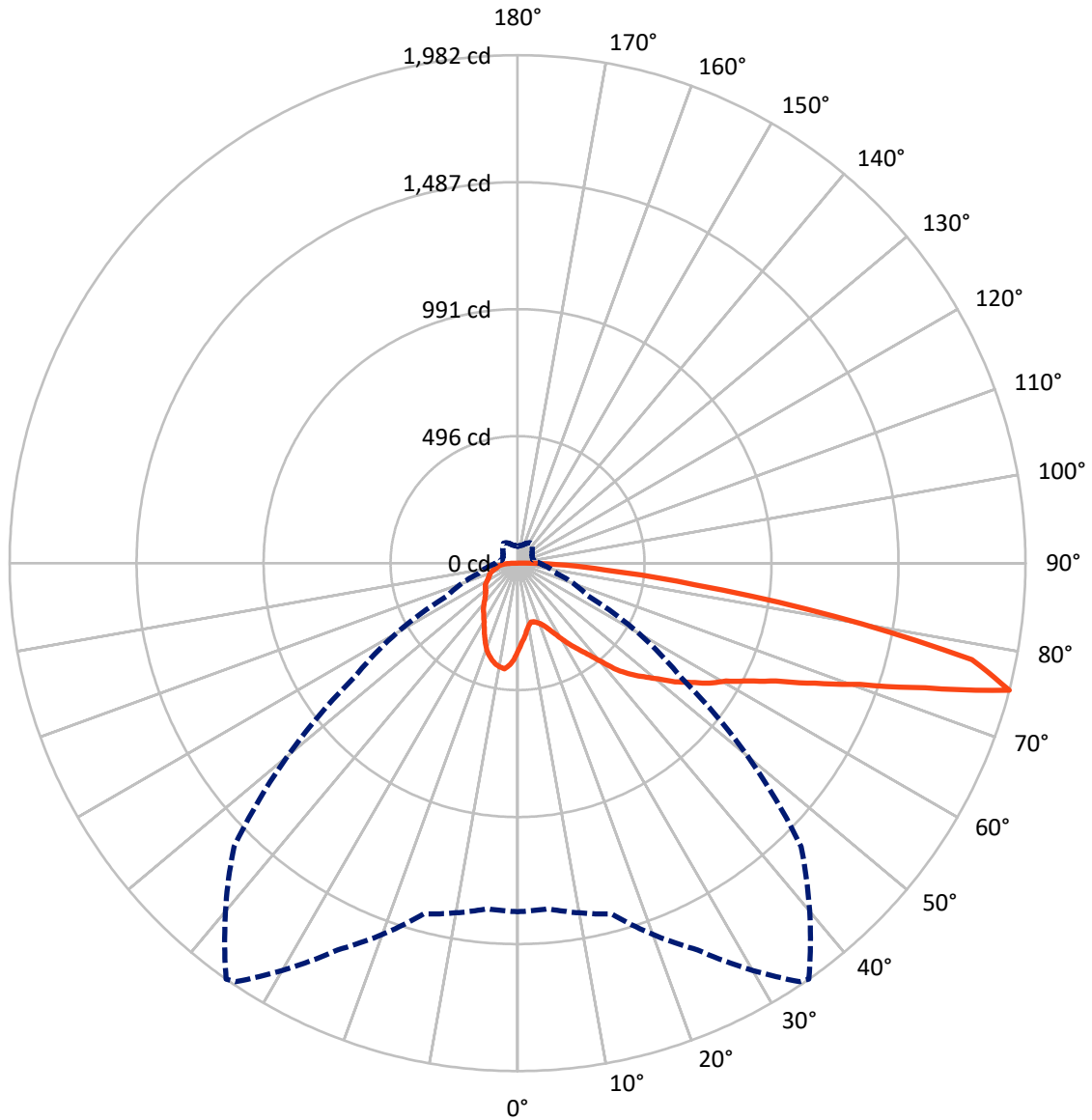
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 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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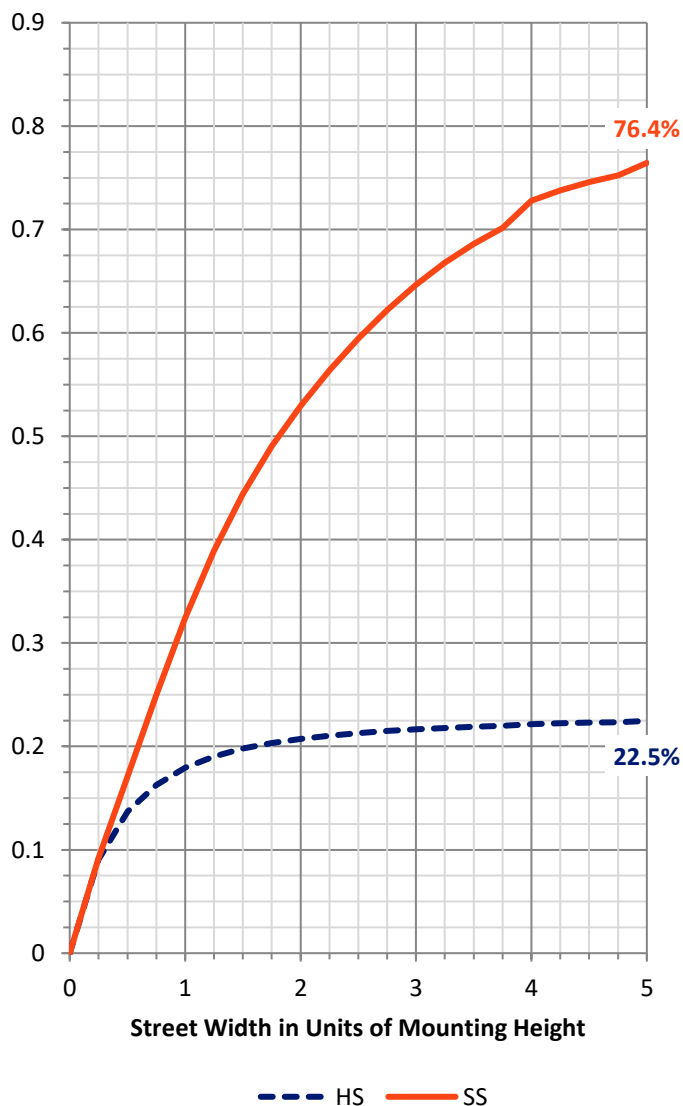
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	572.2	0.0	572.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	1917.5	0.0	1917.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	2489.7	0.0	2489.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.5	1.3
10°-20°	94.3	3.8
20°-30°	156.5	6.3
30°-40°	232.0	9.3
40°-50°	334.6	13.4
50°-60°	460.1	18.5
60°-70°	568.3	22.8
70°-80°	519.9	20.9
80°-90°	91.5	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°	2489.7	100.0
0°-180°	2489.7	100.0



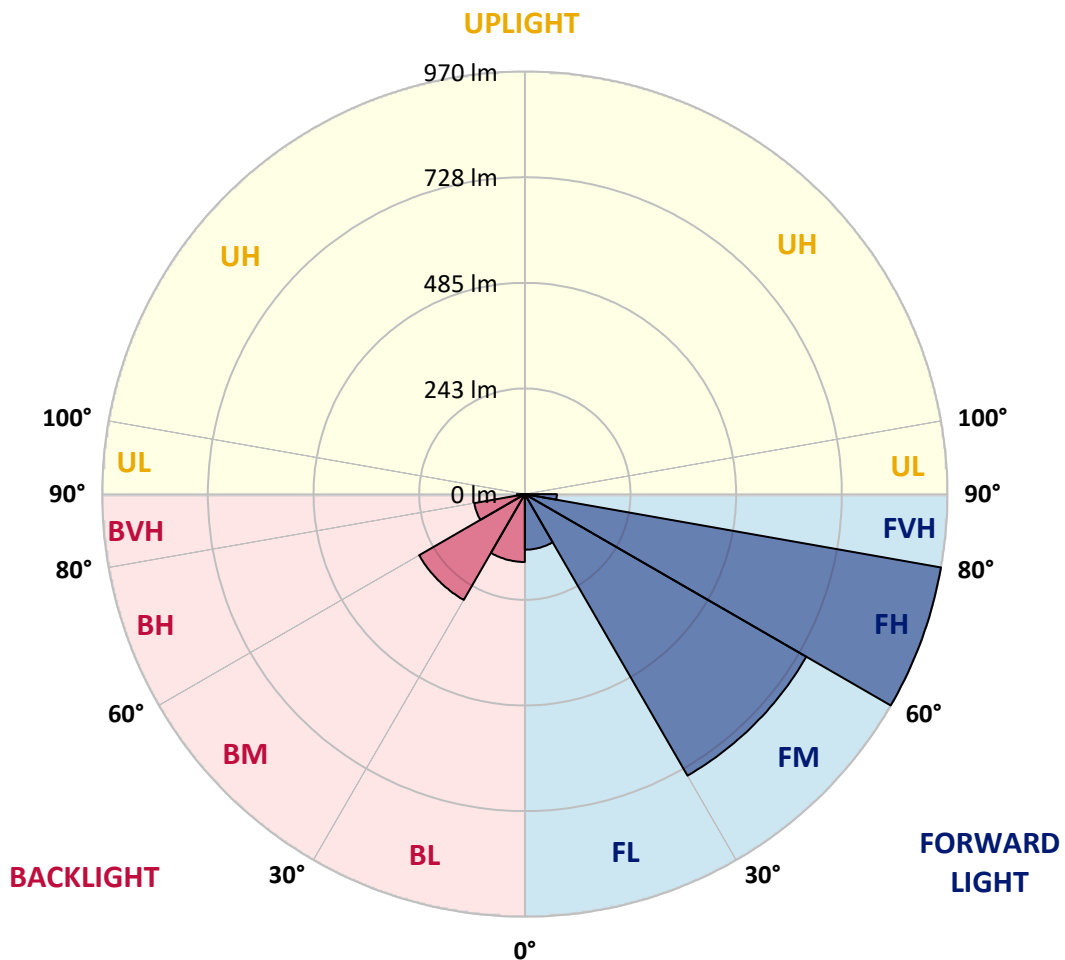
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.6	5.1			
FM (30°-60°)	746.3	30.0			
FH (60°-80°)	970.2	39.0			G1/1800
FVH (80°-90°)	73.4	2.9			G1/100
BL (0°-30°)	155.7	6.3	B1/500		
BM (30°-60°)	280.4	11.3	B1/1000		
BH (60°-80°)	118.0	4.7	B1/500		G1/500
BVH (80°-90°)	18.1	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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	309.0	306.3	309.0	310.8	310.8	310.8	313.6	321.8	327.3	331.0	337.4
5°	276.9	277.8	279.7	284.3	287.0	288.8	293.4	303.5	311.8	323.7	337.4
7.5°	248.5	250.3	253.1	257.7	264.1	263.2	273.2	287.0	302.6	318.2	338.4
10°	233.8	237.5	238.4	239.3	245.7	245.7	259.5	275.1	294.3	314.5	338.4
12.5°	236.6	236.6	233.8	232.9	236.6	235.7	247.6	265.9	287.0	315.4	342.0
15°	244.8	244.8	239.3	233.8	239.3	237.5	247.6	262.2	287.0	316.3	349.4
17.5°	255.8	256.7	250.3	241.2	243.0	243.9	251.2	265.0	287.0	318.2	359.4
20°	277.8	273.2	263.2	248.5	254.9	252.2	263.2	275.1	292.5	325.5	374.1
22.5°	297.1	297.1	277.8	265.0	265.9	265.9	276.0	286.1	300.8	335.6	385.1
25°	328.3	326.4	302.6	283.3	285.2	286.1	291.6	303.5	314.5	341.1	398.9
27.5°	367.7	363.1	339.3	317.3	309.9	312.7	315.4	324.6	327.3	350.3	415.4
30°	409.9	403.5	383.3	348.4	344.8	345.7	341.1	346.6	342.9	364.9	431.9
32.5°	436.5	436.5	417.2	391.5	381.4	381.4	365.9	369.5	369.5	378.7	461.2
35°	459.4	457.6	444.7	425.5	419.0	415.4	399.8	405.3	396.1	405.3	502.5
37.5°	494.2	488.7	483.2	470.4	457.6	454.8	446.6	450.2	437.4	432.8	549.2
40°	534.6	531.8	526.3	520.8	508.0	507.1	497.9	501.6	487.8	470.4	596.0
42.5°	594.2	585.9	568.5	563.9	566.7	570.3	566.7	560.3	535.5	513.5	646.4
45°	653.8	640.9	607.9	600.6	621.7	618.9	634.5	631.8	591.4	556.6	699.6
47.5°	692.3	681.3	654.7	650.1	659.3	662.9	709.7	701.5	637.3	596.0	751.0
50°	719.8	720.7	685.9	697.8	709.7	709.7	768.4	767.5	693.2	644.6	817.9
52.5°	760.1	747.3	732.6	743.6	760.1	769.3	841.8	821.6	728.1	685.9	893.1
55°	781.2	775.7	762.9	782.2	817.0	821.6	898.6	883.0	767.5	734.5	970.1
57.5°	789.5	794.1	815.2	823.4	872.0	883.9	950.0	927.9	804.2	795.0	1029.7
60°	826.2	819.7	848.2	881.2	927.9	934.4	1014.1	966.5	839.9	834.4	1049.0
62.5°	900.4	883.9	899.5	938.9	1004.1	1012.3	1082.0	1017.8	855.5	861.0	1048.1
65°	1008.6	996.7	973.8	1005.0	1096.7	1108.6	1161.8	1061.8	850.9	851.8	973.8
67.5°	1136.1	1116.8	1093.0	1112.3	1224.1	1251.6	1259.0	1081.1	818.8	800.5	792.2
70°	1248.0	1235.1	1219.5	1252.5	1408.4	1418.5	1380.0	1069.2	729.9	642.8	528.2
72.5°	1352.5	1346.1	1355.2	1479.0	1657.8	1664.3	1493.7	994.0	576.8	389.7	245.7
75°	1360.7	1354.3	1417.6	1666.1	1970.5	1982.4	1564.3	779.4	304.4	158.6	103.6
77.5°	921.5	940.8	1059.1	1458.9	1810.0	1812.8	1279.1	362.2	125.6	93.5	72.4
80°	226.5	251.2	398.9	754.6	1220.5	1250.7	700.5	122.0	82.5	71.5	54.1
82.5°	82.5	89.9	162.3	341.1	685.9	697.8	244.8	66.0	59.6	55.0	39.4
85°	39.4	40.3	77.0	167.8	346.6	342.9	88.0	39.4	43.1	37.6	23.8
87.5°	16.5	16.5	33.9	77.9	153.1	148.5	28.4	18.3	24.8	22.0	11.9
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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	342.0	343.9	351.2	356.7	362.2	366.8	374.1	374.1	378.7	378.7	378.7
5°	341.1	351.2	363.1	375.9	384.2	392.5	399.8	400.7	403.5	407.1	408.0
7.5°	344.8	354.9	374.1	392.5	402.5	406.2	415.4	412.6	412.6	412.6	415.4
10°	352.1	363.1	389.7	406.2	413.5	414.5	411.7	409.9	404.4	402.5	399.8
12.5°	357.6	376.9	403.5	416.3	413.5	410.8	404.4	395.2	388.8	386.9	386.9
15°	371.4	390.6	415.4	420.0	415.4	400.7	392.5	382.4	376.9	368.6	372.3
17.5°	383.3	405.3	427.3	421.8	412.6	389.7	377.8	363.1	355.8	346.6	346.6
20°	398.9	419.0	438.3	423.6	403.5	378.7	359.4	341.1	331.0	321.8	323.7
22.5°	416.3	434.6	444.7	416.3	389.7	361.3	334.7	317.3	304.4	298.9	300.8
25°	430.0	450.2	448.4	404.4	373.2	339.3	309.9	293.4	290.7	285.2	285.2
27.5°	447.5	468.6	445.6	389.7	345.7	304.4	286.1	279.7	279.7	276.9	278.8
30°	470.4	485.1	439.2	368.6	310.8	273.2	264.1	267.7	274.2	271.4	272.3
32.5°	508.0	506.2	433.7	344.8	274.2	243.0	249.4	256.7	262.2	265.0	266.8
35°	544.7	532.7	427.3	312.7	240.2	228.3	233.8	242.1	252.2	254.9	255.8
37.5°	581.3	560.3	416.3	273.2	219.1	215.5	221.0	225.6	233.8	235.7	237.5
40°	619.9	578.6	397.0	234.7	201.7	201.7	205.4	206.3	210.9	213.6	215.5
42.5°	653.8	596.0	362.2	199.0	183.4	189.8	190.7	188.9	185.2	187.1	188.0
45°	695.0	615.3	321.8	173.3	169.6	177.9	179.7	172.4	166.0	162.3	160.5
47.5°	735.4	635.4	287.0	152.2	156.8	169.6	169.6	161.4	150.4	141.2	137.5
50°	772.1	655.6	258.6	139.4	144.0	163.2	165.0	149.5	137.5	126.5	124.7
52.5°	833.5	689.5	229.2	129.3	136.6	158.6	157.7	144.0	128.4	116.5	115.5
55°	887.6	723.5	190.7	119.2	129.3	152.2	155.0	138.5	117.4	106.4	104.5
57.5°	927.0	731.7	152.2	109.1	122.0	144.9	148.5	127.5	110.0	100.9	99.9
60°	934.4	699.6	123.8	100.9	111.9	134.8	137.5	121.0	104.5	97.2	95.4
62.5°	900.4	638.2	105.4	93.5	103.6	124.7	130.2	113.7	99.0	92.6	91.7
65°	823.4	548.3	92.6	87.1	98.1	117.4	123.8	108.2	94.4	88.9	88.0
67.5°	651.9	420.9	82.5	82.5	90.8	110.0	119.2	104.5	89.9	86.2	85.3
70°	426.4	253.1	75.2	76.1	85.3	103.6	113.7	99.9	84.4	83.4	81.6
72.5°	183.4	116.5	66.9	69.7	77.0	92.6	105.4	93.5	77.9	75.2	72.4
75°	84.4	70.6	60.5	62.4	68.8	81.6	95.4	86.2	72.4	67.9	65.1
77.5°	59.6	51.3	50.4	54.1	58.7	70.6	84.4	80.7	66.9	63.3	61.4
80°	44.0	39.4	42.2	45.8	48.6	65.1	79.8	74.3	61.4	55.9	53.2
82.5°	31.2	29.3	33.0	36.7	39.4	56.9	73.4	65.1	51.3	46.8	42.2
85°	18.3	19.3	22.9	24.8	27.5	42.2	61.4	52.3	39.4	30.3	29.3
87.5°	8.3	8.3	11.0	11.9	13.8	24.8	41.3	33.0	24.8	19.3	18.3
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)