

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: P672077

Luminaire Tested: **CCP-SA-1A-727-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672077  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-727-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

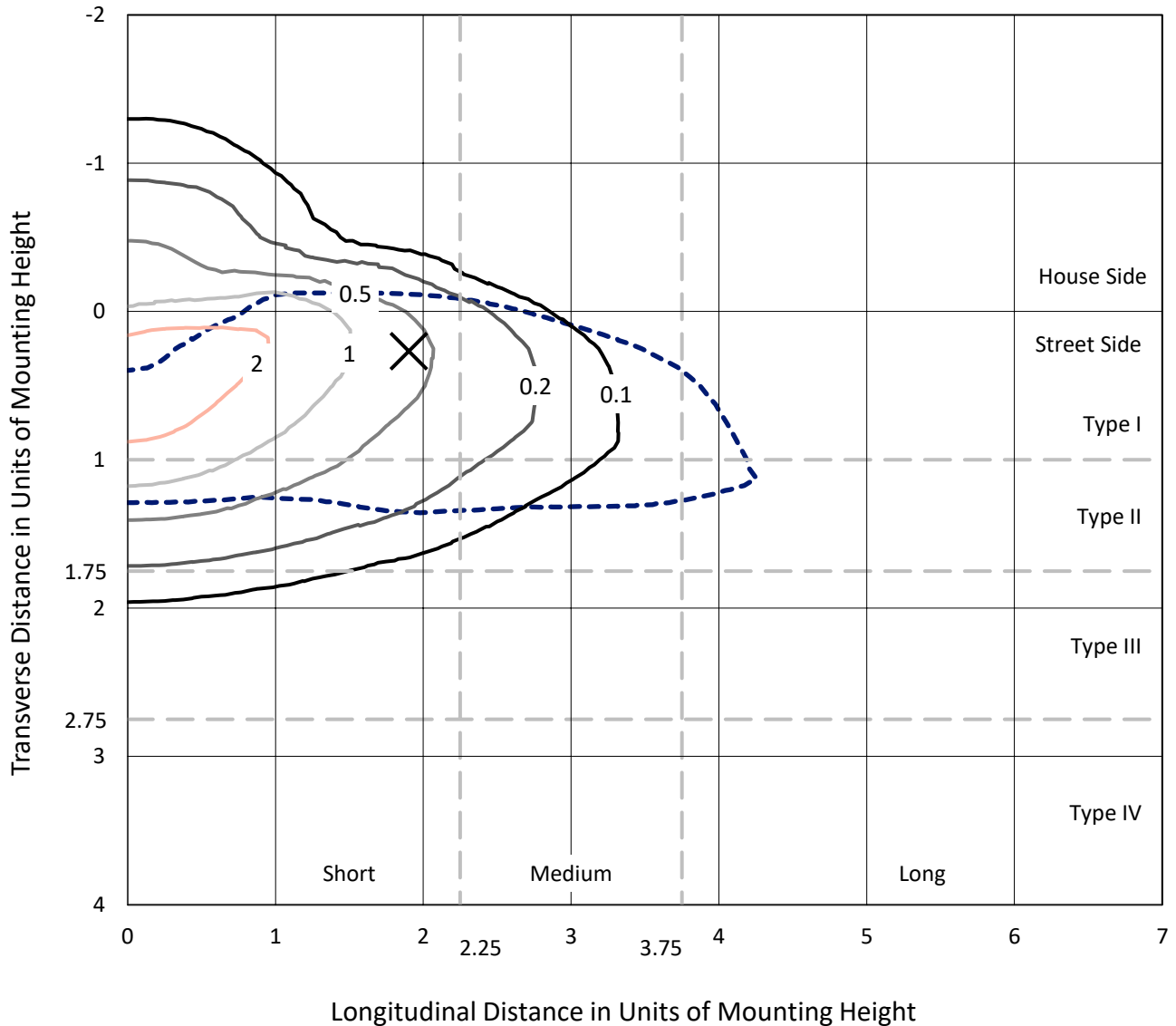
Lumens per Lamp: N/A  
Luminaire Lumens: 2324 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

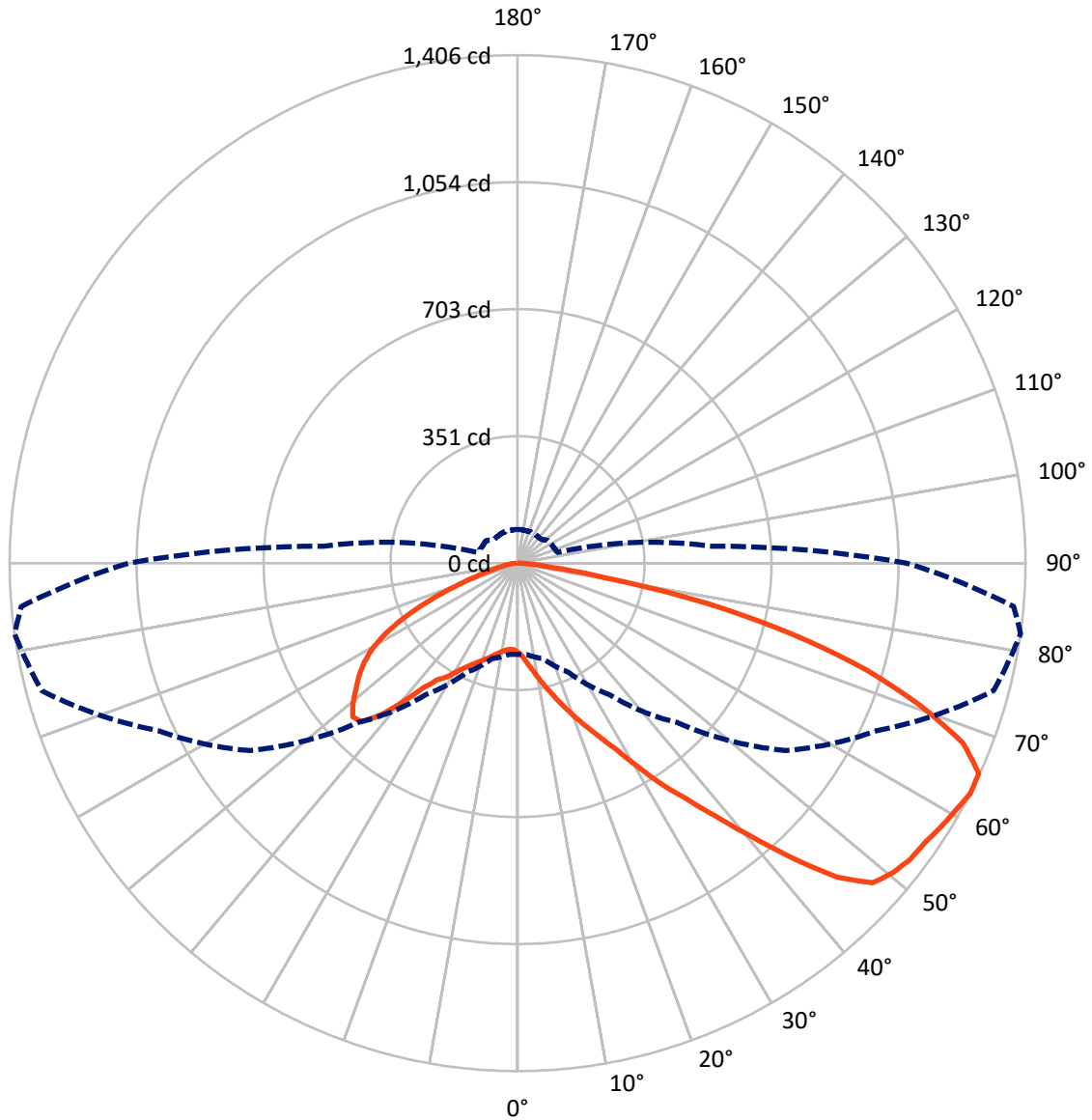
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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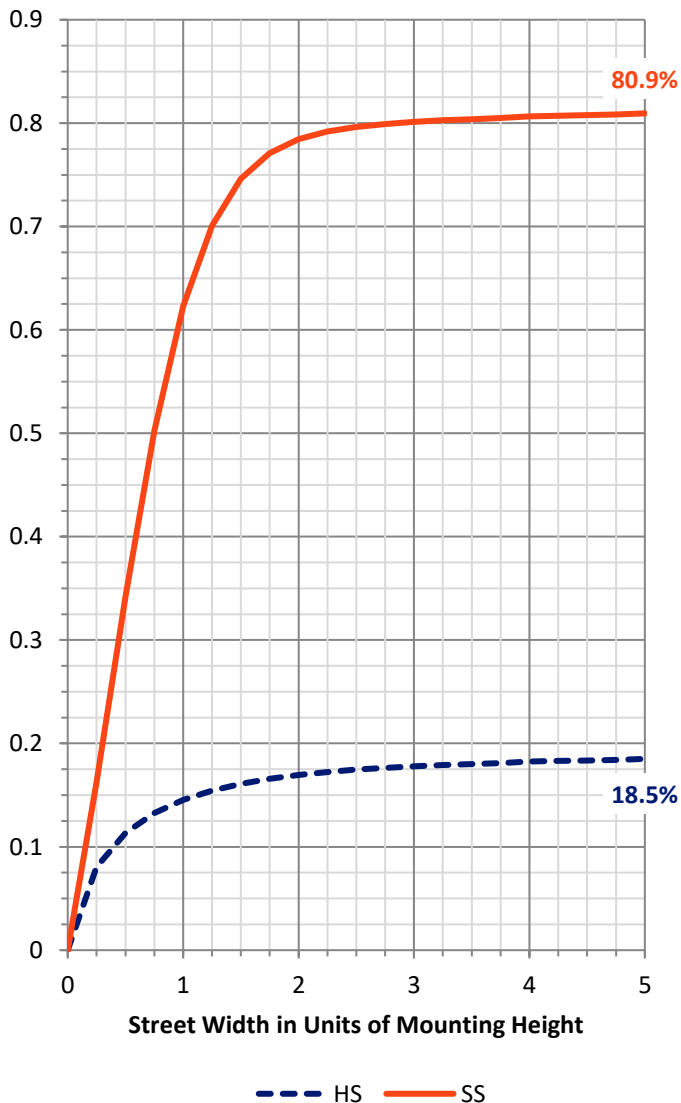
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	437.8	0.0	437.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	1886.2	0.0	1886.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	2324.0	0.0	2324.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.3	1.2
10°-20°	103.2	4.4
20°-30°	213.6	9.2
30°-40°	362.6	15.6
40°-50°	493.7	21.2
50°-60°	499.8	21.5
60°-70°	393.9	16.9
70°-80°	194.0	8.3
80°-90°	35.9	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°	2324.0	100.0
0°-180°	2324.0	100.0



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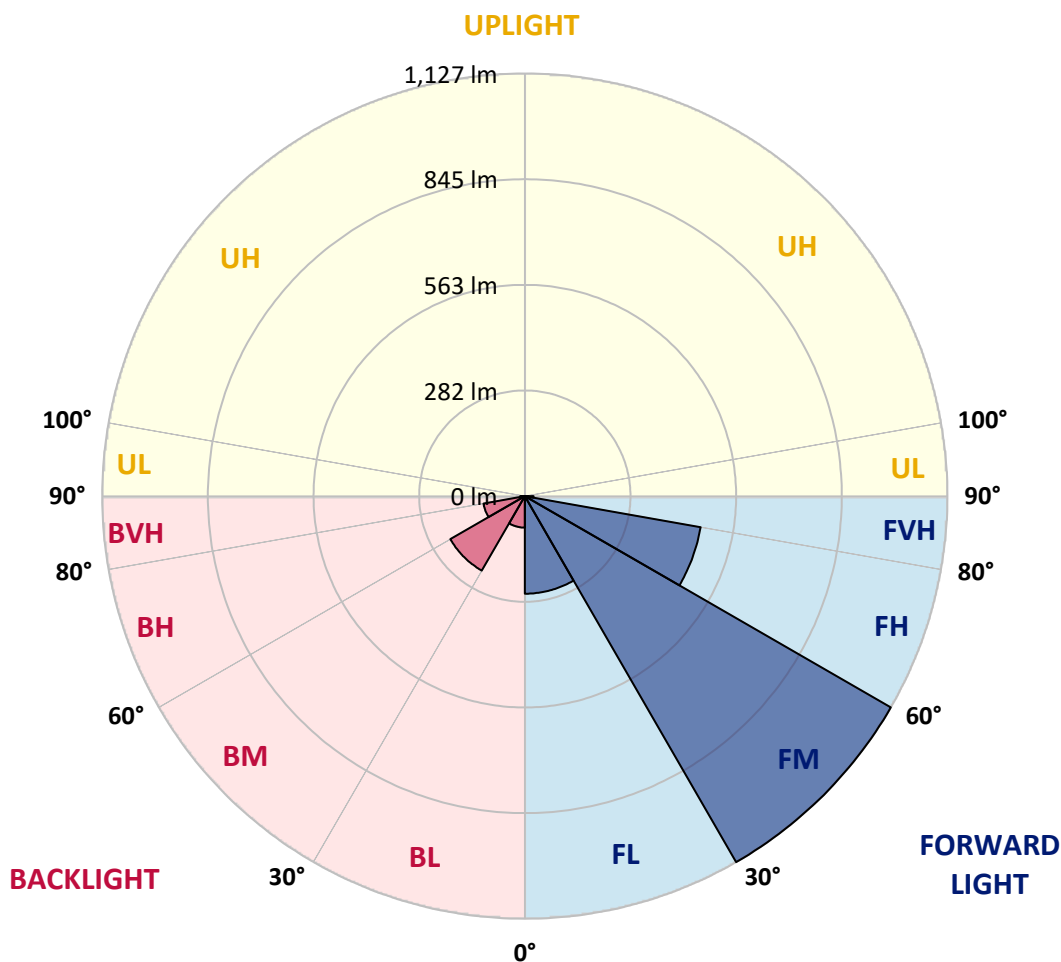
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.1	11.2			
FM (30°-60°)	1126.8	48.5			
FH (60°-80°)	476.0	20.5			G0/660
FVH (80°-90°)	23.3	1.0			G1/100
BL (0°-30°)	84.0	3.6	B0/110		
BM (30°-60°)	229.3	9.9	B1/1000		
BH (60°-80°)	111.9	4.8	B1/500		G1/500
BVH (80°-90°)	12.6	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1
2.5°	329.1	324.1	321.4	318.4	310.1	304.7	294.7	283.0	269.4	257.9	255.7
5°	398.6	393.6	394.2	386.9	374.6	363.3	344.5	322.4	296.7	276.9	270.1
7.5°	447.6	442.1	443.4	440.4	430.5	418.0	394.2	365.8	328.1	298.8	287.8
10°	480.4	481.1	482.1	480.9	474.5	465.7	442.1	410.6	363.8	324.8	309.7
12.5°	517.5	519.4	519.1	519.6	516.2	509.2	486.1	456.5	401.8	352.7	333.2
15°	564.9	563.1	564.6	566.7	563.1	555.4	534.9	499.8	441.6	383.9	359.6
17.5°	616.8	612.9	616.9	614.8	612.1	607.1	584.6	547.2	482.7	417.5	389.0
20°	661.6	659.1	661.3	661.6	662.1	661.1	638.0	598.2	525.9	454.1	420.8
22.5°	712.0	710.8	710.5	710.6	711.1	712.3	696.6	654.1	573.8	492.6	455.1
25°	782.4	781.3	773.6	765.0	760.0	763.7	755.5	717.5	626.6	535.8	492.8
27.5°	861.4	859.6	849.4	827.8	811.7	814.4	813.6	787.4	687.6	585.3	538.0
30°	943.4	938.9	924.8	894.5	869.3	864.6	866.9	858.2	764.2	651.1	600.9
32.5°	1016.5	1008.2	989.6	959.0	928.8	915.3	915.6	919.5	847.5	727.7	666.8
35°	1061.2	1055.7	1041.8	1010.8	977.2	968.2	965.7	984.9	924.0	798.7	725.9
37.5°	1085.3	1079.9	1065.0	1040.1	1014.7	1011.0	1015.7	1045.5	1010.8	887.2	806.2
40°	1080.9	1075.3	1065.5	1048.1	1031.4	1034.3	1055.0	1101.0	1105.7	993.1	920.6
42.5°	1045.1	1039.1	1038.3	1037.1	1029.2	1041.8	1079.3	1141.7	1192.9	1115.4	1059.2
45°	981.9	978.2	982.6	1002.6	1012.5	1036.8	1090.6	1161.4	1269.5	1239.7	1190.2
47.5°	901.7	899.6	909.4	941.2	973.2	1021.4	1098.2	1166.8	1322.2	1322.2	1276.0
50°	812.0	811.2	824.3	870.4	920.5	993.1	1097.3	1171.8	1345.3	1346.5	1306.3
52.5°	686.9	691.2	726.0	786.9	854.9	948.8	1085.6	1185.9	1358.4	1361.1	1326.6
55°	542.6	546.8	599.4	681.4	768.4	894.9	1050.7	1181.7	1360.9	1366.9	1338.1
57.5°	433.2	434.1	466.8	564.2	672.0	825.9	1010.3	1153.9	1353.5	1379.8	1355.9
60°	339.0	341.7	363.6	440.7	560.2	737.1	965.3	1126.5	1357.7	1392.0	1371.9
62.5°	252.5	253.2	273.6	333.3	445.1	623.8	904.2	1097.2	1363.6	1405.7	1378.5
65°	164.5	164.3	184.1	237.9	332.5	501.5	808.4	1051.3	1364.1	1402.7	1348.5
67.5°	104.6	105.2	113.8	147.8	222.5	378.5	677.8	966.2	1340.3	1329.8	1239.4
70°	84.8	85.0	87.7	96.5	135.5	258.7	509.5	833.0	1265.2	1184.4	1077.3
72.5°	75.6	75.8	77.1	78.1	90.4	155.4	334.3	676.3	1131.6	1009.5	893.7
75°	67.9	67.9	68.8	67.8	74.1	97.6	189.8	508.5	932.0	786.1	675.2
77.5°	59.6	59.4	59.4	58.9	64.1	71.3	95.0	354.9	671.3	536.1	437.9
80°	50.5	50.2	50.7	50.4	55.4	54.0	55.4	219.0	363.9	245.8	186.4
82.5°	39.3	39.3	40.8	41.2	45.7	39.2	39.0	103.9	138.2	91.9	68.8
85°	20.6	23.1	31.1	32.5	34.5	24.6	28.6	48.5	55.4	35.1	25.1
87.5°	6.2	6.5	19.1	21.4	21.3	12.4	17.6	23.4	25.9	15.6	10.2
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°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.1
2.5°	250.2	244.3	231.9	220.9	212.5	204.5	199.0	196.1	192.4	192.9	191.8
5°	257.9	245.8	223.9	206.1	194.3	185.2	179.7	176.9	174.2	172.9	173.9
7.5°	269.4	250.7	220.0	198.6	186.2	178.5	175.5	174.7	174.0	173.5	174.4
10°	284.3	259.2	219.4	195.9	184.6	179.9	178.7	178.2	177.5	176.9	177.4
12.5°	299.5	268.6	221.7	196.6	187.2	183.7	182.2	181.6	179.9	179.0	179.2
15°	318.6	279.9	224.9	199.3	190.8	186.2	184.2	182.4	179.7	178.5	179.0
17.5°	339.0	293.5	229.2	201.8	192.1	186.6	182.6	179.9	177.2	175.5	175.7
20°	362.1	306.9	233.1	202.6	191.4	183.7	178.9	175.7	172.2	170.3	169.8
22.5°	386.0	320.9	236.1	202.0	187.7	178.9	173.4	169.5	165.3	162.5	162.6
25°	415.1	340.0	238.6	199.6	182.9	172.5	166.3	161.5	157.1	154.4	154.6
27.5°	450.1	361.6	241.6	195.9	177.0	165.7	158.5	153.6	149.4	146.9	146.6
30°	496.8	389.7	245.0	191.4	169.7	158.1	151.1	146.1	142.1	139.7	139.7
32.5°	549.3	424.0	247.3	186.1	161.5	150.1	143.7	139.7	136.7	133.5	133.2
35°	595.0	450.6	254.5	181.9	154.3	142.6	138.2	135.4	130.9	127.8	127.3
37.5°	662.1	497.5	275.8	180.7	145.6	136.7	135.9	130.5	125.3	119.6	119.1
40°	770.2	578.6	300.5	175.0	136.5	133.5	132.7	125.5	113.3	109.8	109.1
42.5°	907.8	676.3	303.2	158.5	130.2	130.9	128.3	114.3	108.9	106.3	105.6
45°	1031.9	755.7	288.0	141.6	125.5	126.8	121.6	110.1	107.1	104.6	103.9
47.5°	1101.7	780.1	259.2	128.8	122.0	123.3	110.9	108.1	105.1	102.6	101.9
50°	1121.3	758.8	225.7	121.5	119.3	119.8	108.1	106.4	103.7	101.7	100.7
52.5°	1125.1	727.0	194.8	117.1	117.3	112.8	105.6	104.2	102.6	99.4	98.2
55°	1126.8	698.4	167.0	114.5	116.0	103.7	102.9	101.9	100.6	97.2	96.5
57.5°	1131.1	661.8	145.2	112.4	114.3	99.6	99.9	99.2	97.6	96.0	95.7
60°	1118.8	611.1	128.5	110.4	111.9	96.0	96.4	96.7	95.2	94.9	94.7
62.5°	1077.3	539.1	114.3	107.8	107.1	92.5	92.5	93.9	92.5	93.0	93.0
65°	991.8	447.4	101.6	102.7	99.6	88.7	88.5	90.9	88.9	91.0	91.2
67.5°	846.0	338.7	88.5	94.9	91.7	84.7	85.3	87.2	84.5	89.0	89.0
70°	669.6	230.4	75.0	83.8	83.7	80.2	82.3	82.2	79.1	85.8	84.7
72.5°	498.8	147.9	61.1	70.3	73.1	75.3	79.3	75.8	73.0	76.8	73.3
75°	348.5	92.7	48.2	55.6	60.9	69.9	75.6	68.6	64.4	63.3	62.2
77.5°	208.7	59.2	38.0	42.3	47.5	63.6	70.9	61.1	54.7	54.0	52.0
80°	96.2	38.7	28.9	31.6	33.8	54.5	64.6	52.2	44.5	43.8	41.5
82.5°	43.5	25.4	21.6	22.6	22.8	43.3	54.5	41.3	34.0	55.1	47.7
85°	20.2	16.4	14.1	13.4	13.6	28.9	39.7	28.4	38.7	30.1	22.9
87.5°	8.7	8.4	7.2	5.7	5.2	6.2	15.2	11.9	16.9	6.7	4.5
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)