

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: P672143

Luminaire Tested: **CCP-SA-1A-827-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672143  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-827-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2042.8 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

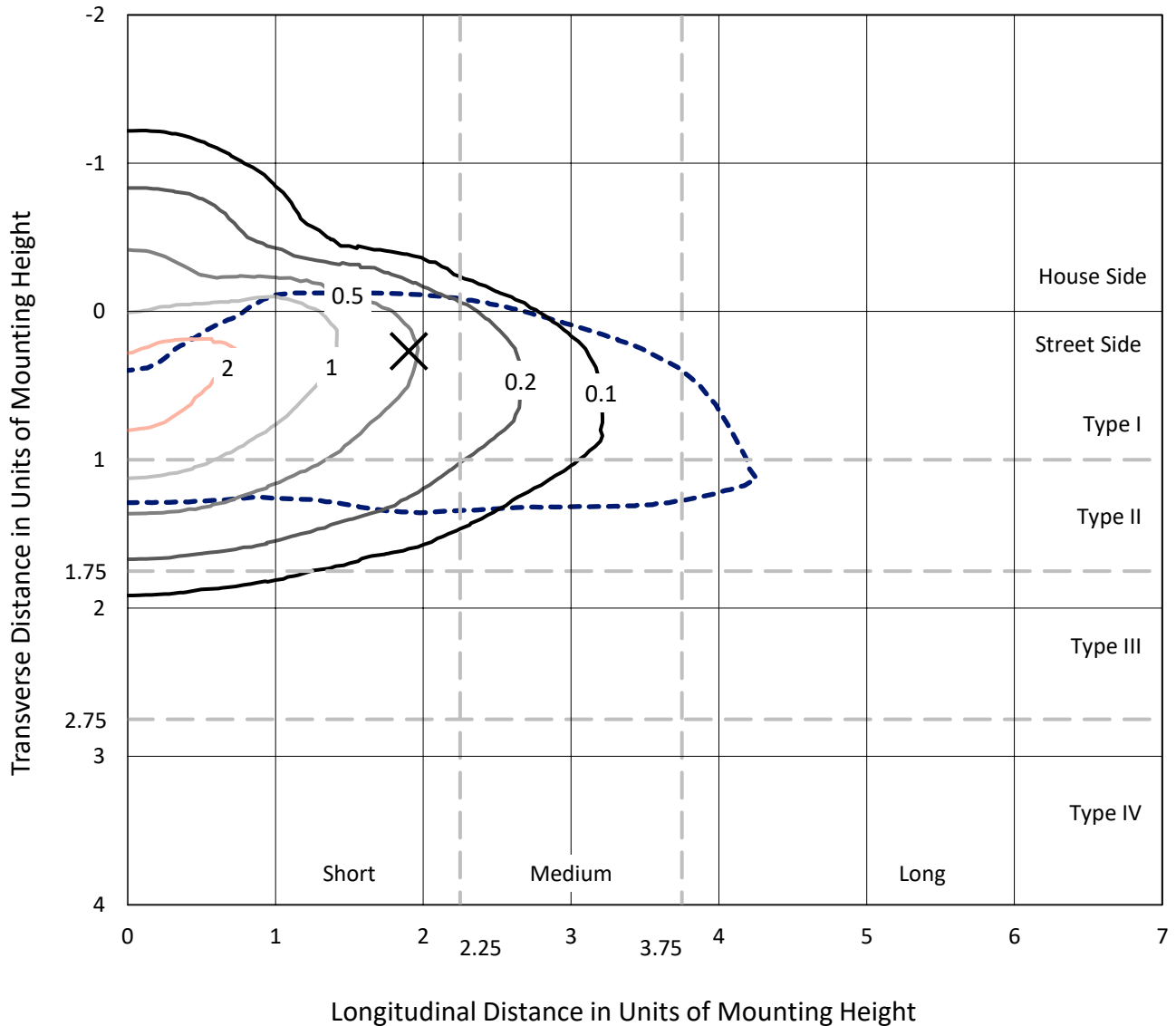
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

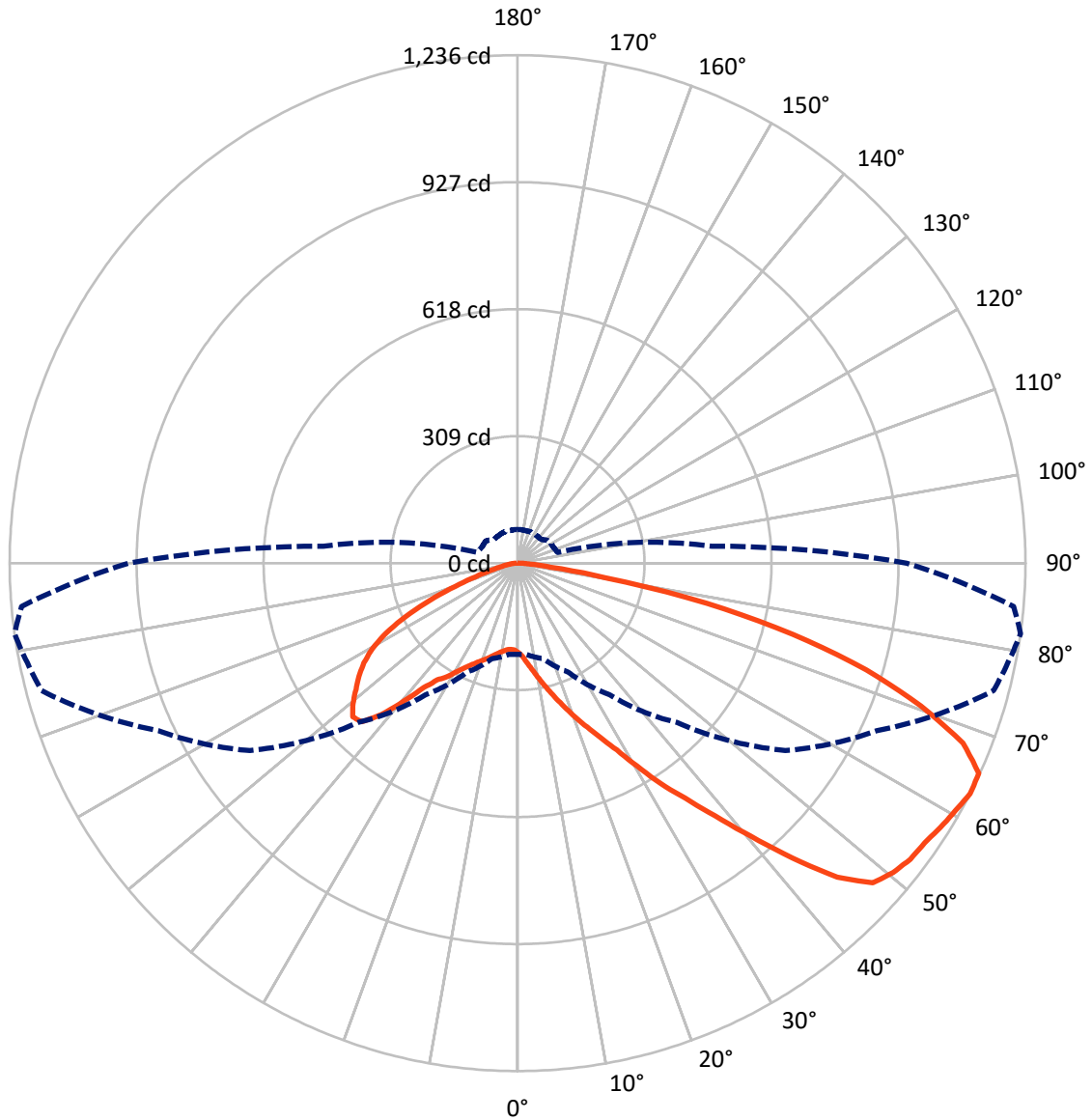
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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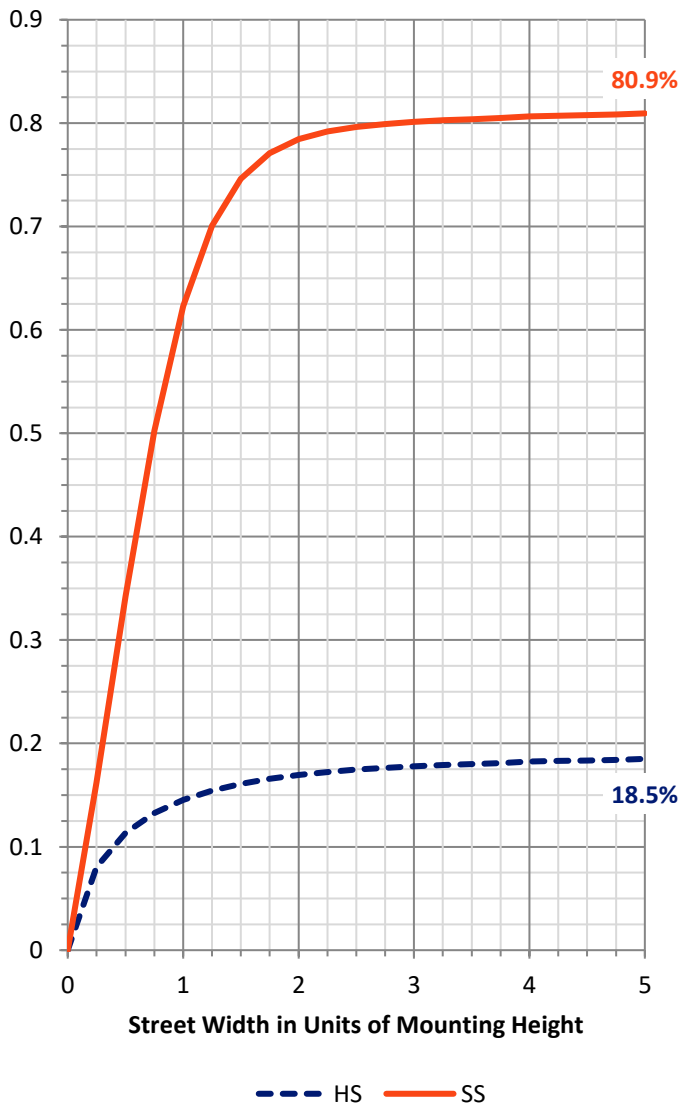
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	384.9	0.0	384.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	1657.9	0.0	1657.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	2042.8	0.0	2042.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.0	1.2
10°-20°	90.7	4.4
20°-30°	187.8	9.2
30°-40°	318.7	15.6
40°-50°	434.0	21.2
50°-60°	439.3	21.5
60°-70°	346.2	16.9
70°-80°	170.6	8.3
80°-90°	31.6	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°	2042.8	100.0
0°-180°	2042.8	100.0



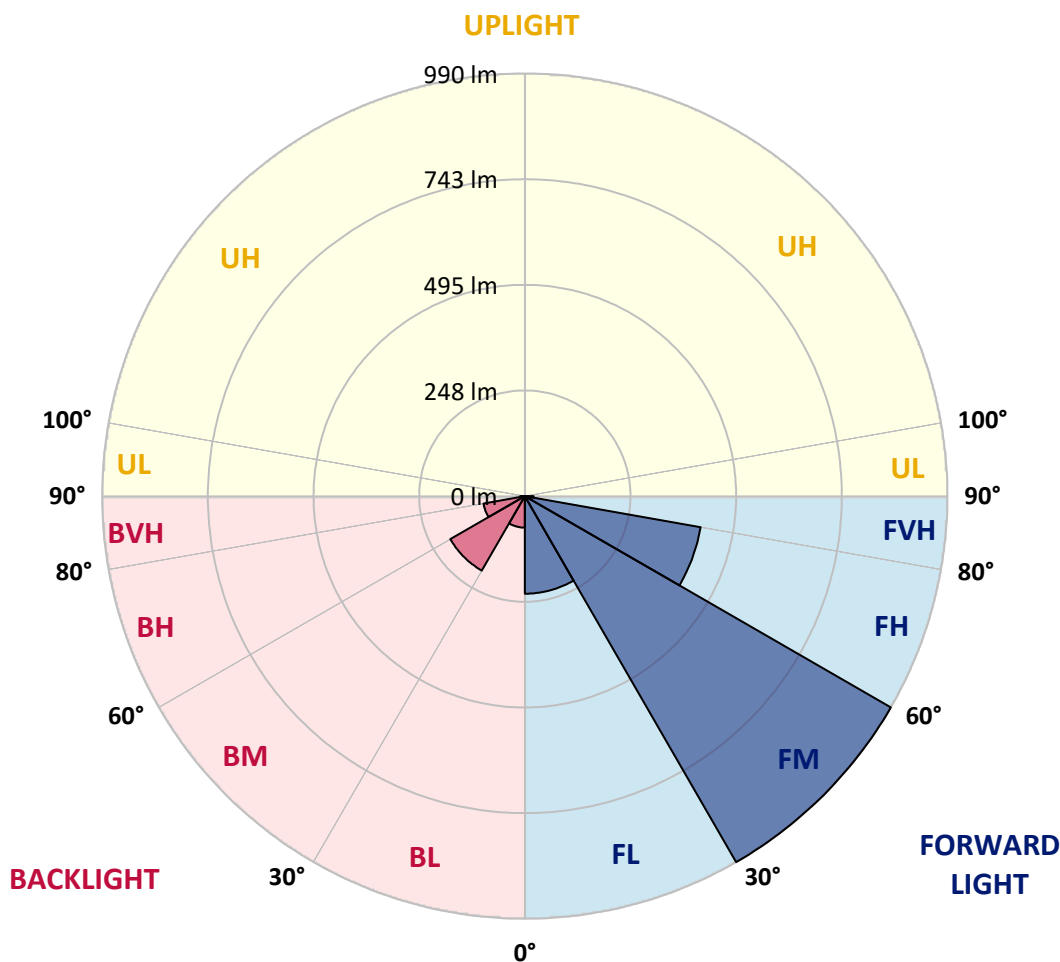
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.6	11.2			
FM (30°-60°)	990.4	48.5			
FH (60°-80°)	418.4	20.5			G0/660
FVH (80°-90°)	20.5	1.0			G1/100
BL (0°-30°)	73.8	3.6	B0/110		
BM (30°-60°)	201.6	9.9	B0/220		
BH (60°-80°)	98.4	4.8	B0/110		G0/110
BVH (80°-90°)	11.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	289.3	284.9	282.5	279.9	272.5	267.8	259.0	248.7	236.8	226.7	224.7
5°	350.3	345.9	346.5	340.0	329.3	319.3	302.8	283.4	260.8	243.4	237.4
7.5°	393.4	388.6	389.8	387.1	378.4	367.4	346.5	321.5	288.4	262.7	253.0
10°	422.3	422.9	423.7	422.7	417.1	409.3	388.6	360.9	319.8	285.5	272.2
12.5°	454.9	456.5	456.2	456.7	453.7	447.6	427.3	401.2	353.1	310.0	292.8
15°	496.5	494.9	496.2	498.2	494.9	488.2	470.2	439.3	388.1	337.4	316.1
17.5°	542.1	538.8	542.3	540.4	538.0	533.6	513.9	481.0	424.3	367.0	342.0
20°	581.6	579.3	581.3	581.6	582.0	581.1	560.8	525.8	462.3	399.2	369.9
22.5°	625.8	624.8	624.5	624.7	625.1	626.1	612.3	574.9	504.3	433.0	400.1
25°	687.7	686.7	680.0	672.5	668.0	671.3	664.1	630.7	550.8	471.0	433.2
27.5°	757.2	755.6	746.6	727.6	713.5	715.8	715.1	692.2	604.4	514.5	472.9
30°	829.2	825.3	812.9	786.3	764.1	760.0	762.0	754.4	671.7	572.3	528.2
32.5°	893.5	886.2	869.8	842.9	816.4	804.5	804.8	808.2	745.0	639.7	586.1
35°	932.8	927.9	915.7	888.5	858.9	851.0	848.8	865.7	812.2	702.0	638.0
37.5°	954.0	949.3	936.2	914.3	891.9	888.7	892.8	919.0	888.5	779.8	708.6
40°	950.1	945.1	936.6	921.3	906.6	909.1	927.3	967.8	971.9	872.9	809.2
42.5°	918.7	913.4	912.6	911.6	904.7	915.7	948.7	1003.5	1048.5	980.4	931.0
45°	863.1	859.8	863.7	881.3	890.0	911.3	958.7	1020.9	1115.9	1089.7	1046.2
47.5°	792.6	790.7	799.4	827.3	855.4	897.8	965.3	1025.6	1162.2	1162.2	1121.6
50°	713.8	713.0	724.5	765.1	809.1	872.9	964.6	1030.0	1182.5	1183.6	1148.3
52.5°	603.8	607.6	638.2	691.7	751.4	833.9	954.3	1042.4	1194.0	1196.4	1166.1
55°	477.0	480.7	526.8	598.9	675.4	786.6	923.5	1038.7	1196.2	1201.5	1176.2
57.5°	380.8	381.5	410.4	496.0	590.7	726.0	888.1	1014.3	1189.7	1212.8	1191.8
60°	298.0	300.3	319.6	387.4	492.4	647.9	848.5	990.1	1193.4	1223.6	1205.9
62.5°	221.9	222.5	240.5	293.0	391.2	548.3	794.8	964.4	1198.6	1235.6	1211.6
65°	144.6	144.4	161.8	209.1	292.2	440.8	710.5	924.1	1199.0	1233.0	1185.3
67.5°	91.9	92.5	100.0	129.9	195.6	332.7	595.8	849.2	1178.1	1168.8	1089.4
70°	74.6	74.7	77.1	84.9	119.1	227.4	447.9	732.2	1112.1	1041.0	946.9
72.5°	66.5	66.6	67.8	68.7	79.4	136.6	293.9	594.5	994.7	887.3	785.6
75°	59.7	59.7	60.5	59.6	65.2	85.7	166.8	447.0	819.2	691.0	593.5
77.5°	52.4	52.2	52.2	51.8	56.3	62.7	83.5	312.0	590.1	471.2	384.9
80°	44.4	44.1	44.6	44.3	48.7	47.5	48.7	192.5	319.9	216.1	163.8
82.5°	34.6	34.6	35.9	36.2	40.2	34.4	34.3	91.3	121.5	80.7	60.5
85°	18.1	20.3	27.4	28.5	30.3	21.6	25.2	42.7	48.7	30.9	22.1
87.5°	5.4	5.7	16.8	18.8	18.7	10.9	15.4	20.6	22.8	13.7	9.0
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°	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2	217.2
2.5°	219.9	214.7	203.9	194.1	186.8	179.7	174.9	172.4	169.1	169.6	168.6
5°	226.7	216.1	196.8	181.2	170.8	162.8	158.0	155.5	153.1	151.9	152.8
7.5°	236.8	220.3	193.4	174.6	163.7	156.9	154.3	153.6	153.0	152.5	153.3
10°	249.9	227.8	192.8	172.2	162.2	158.1	157.1	156.6	156.1	155.5	155.9
12.5°	263.3	236.1	194.9	172.8	164.6	161.5	160.2	159.6	158.1	157.4	157.5
15°	280.0	246.1	197.7	175.2	167.7	163.7	161.9	160.3	158.0	156.9	157.4
17.5°	298.0	258.0	201.5	177.4	168.8	164.0	160.5	158.1	155.8	154.3	154.4
20°	318.3	269.7	204.9	178.1	168.3	161.5	157.2	154.4	151.3	149.7	149.3
22.5°	339.3	282.1	207.5	177.5	165.0	157.2	152.4	149.0	145.3	142.8	143.0
25°	364.9	298.9	209.7	175.5	160.8	151.6	146.2	141.9	138.1	135.8	135.9
27.5°	395.6	317.8	212.4	172.2	155.6	145.6	139.3	135.0	131.3	129.1	128.8
30°	436.7	342.6	215.3	168.3	149.1	139.0	132.8	128.4	124.9	122.8	122.8
32.5°	482.9	372.7	217.4	163.6	141.9	131.9	126.3	122.8	120.2	117.4	117.1
35°	523.0	396.1	223.7	159.9	135.6	125.3	121.5	119.0	115.0	112.4	111.9
37.5°	582.0	437.3	242.4	158.8	128.0	120.2	119.4	114.7	110.2	105.2	104.7
40°	677.0	508.6	264.2	153.8	120.0	117.4	116.6	110.3	99.6	96.5	95.9
42.5°	797.9	594.5	266.5	139.3	114.4	115.0	112.8	100.5	95.7	93.4	92.8
45°	907.0	664.2	253.1	124.4	110.3	111.5	106.9	96.8	94.1	91.9	91.3
47.5°	968.4	685.7	227.8	113.3	107.2	108.4	97.5	95.0	92.4	90.2	89.6
50°	985.6	667.0	198.4	106.8	104.9	105.3	95.0	93.5	91.2	89.4	88.5
52.5°	989.0	639.1	171.2	103.0	103.1	99.1	92.8	91.6	90.2	87.4	86.3
55°	990.4	613.9	146.8	100.6	101.9	91.2	90.5	89.6	88.4	85.5	84.9
57.5°	994.3	581.7	127.7	98.8	100.5	87.5	87.8	87.2	85.7	84.4	84.1
60°	983.4	537.1	113.0	97.1	98.4	84.4	84.7	85.0	83.7	83.4	83.2
62.5°	946.9	473.9	100.5	94.7	94.1	81.3	81.3	82.5	81.3	81.8	81.8
65°	871.7	393.3	89.3	90.3	87.5	78.0	77.8	79.9	78.1	80.0	80.2
67.5°	743.6	297.7	77.8	83.4	80.6	74.4	75.0	76.6	74.3	78.2	78.2
70°	588.6	202.5	65.9	73.7	73.5	70.5	72.4	72.2	69.6	75.5	74.4
72.5°	438.4	130.0	53.7	61.8	64.3	66.2	69.7	66.6	64.1	67.5	64.4
75°	306.4	81.5	42.4	48.8	53.5	61.5	66.5	60.3	56.6	55.6	54.7
77.5°	183.4	52.1	33.4	37.2	41.8	55.9	62.4	53.7	48.1	47.5	45.7
80°	84.6	34.0	25.4	27.8	29.7	47.9	56.8	45.9	39.1	38.5	36.5
82.5°	38.2	22.4	19.0	19.9	20.0	38.1	47.9	36.3	29.9	48.4	41.9
85°	17.8	14.4	12.4	11.8	11.9	25.4	34.9	25.0	34.0	26.5	20.2
87.5°	7.6	7.4	6.3	5.0	4.6	5.4	13.4	10.4	14.9	5.9	4.0
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)