

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: P672299

Luminaire Tested: **CCP-SA-1B-830-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672299  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-830-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T3R distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

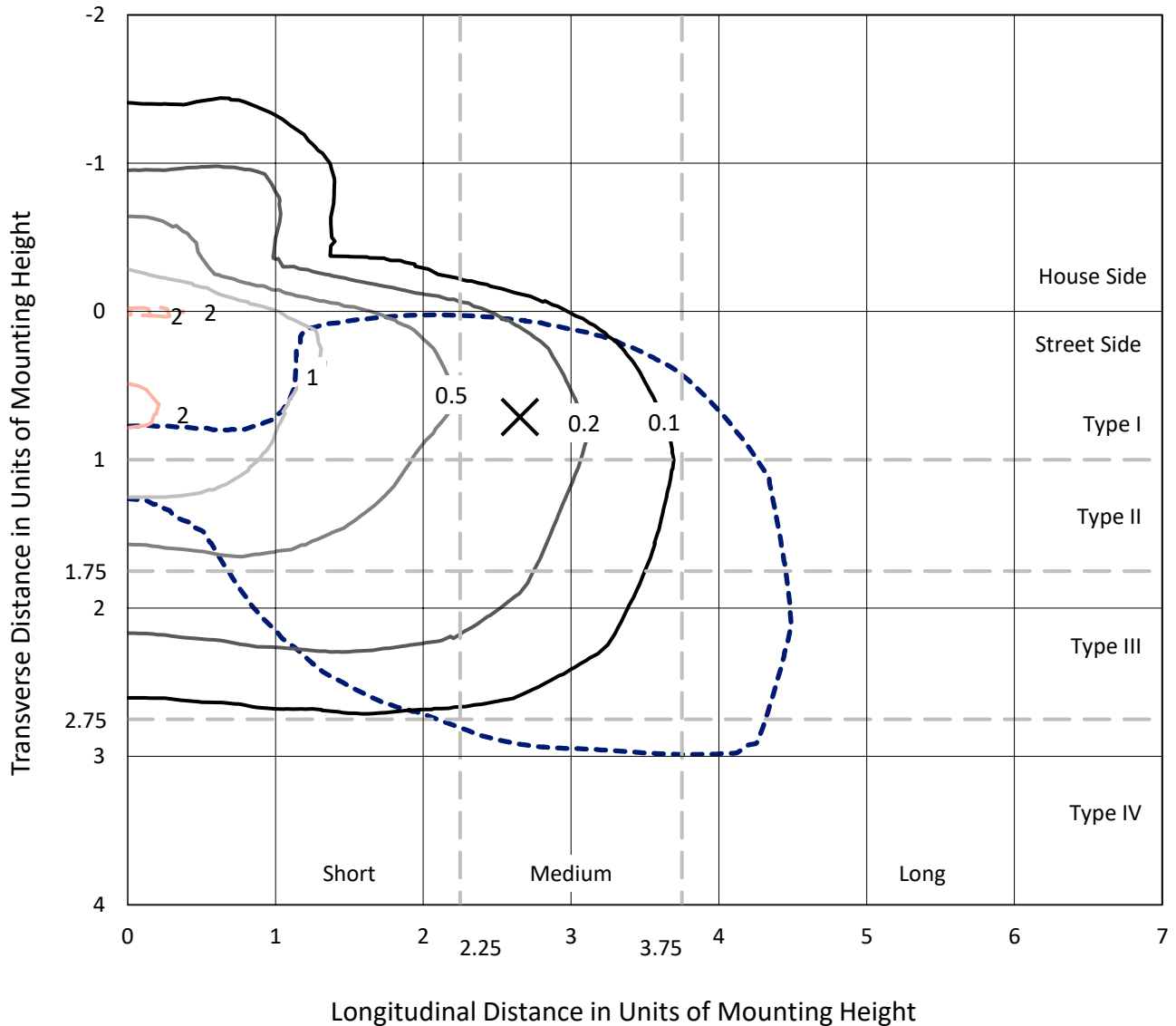
Lumens per Lamp: N/A  
Luminaire Lumens: 2789.2 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

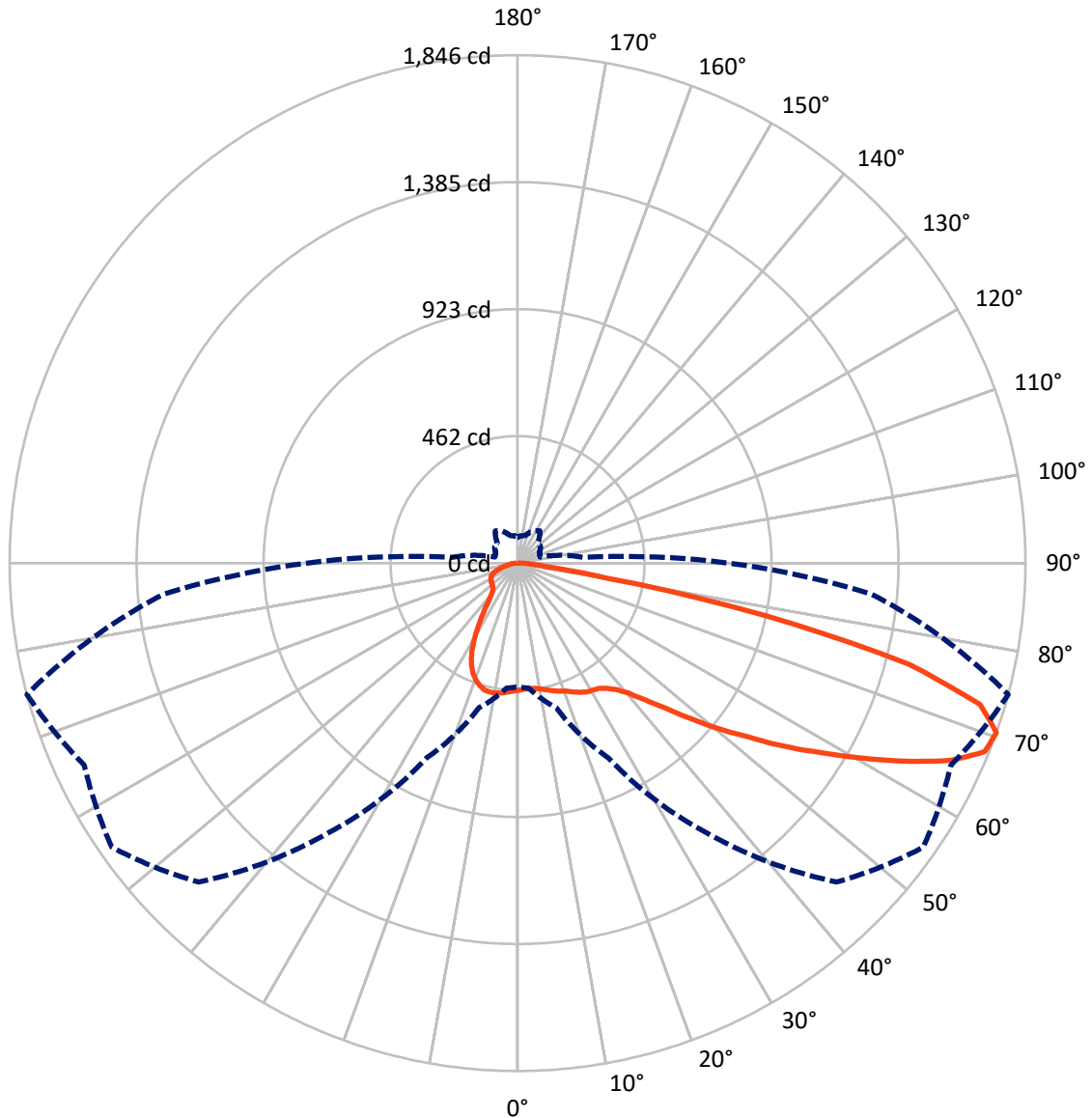
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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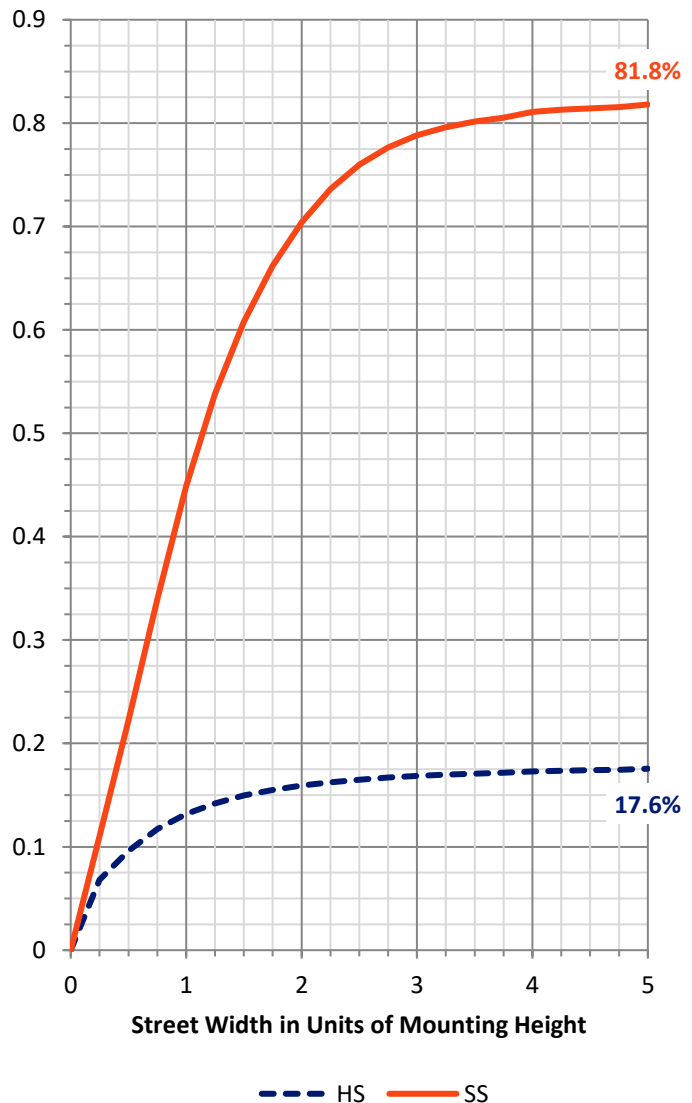
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	496.2	0.0	496.2
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	2293.0	0.0	2293.0
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2789.2	0.0	2789.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	1.5
10°-20°	110.8	4.0
20°-30°	186.6	6.7
30°-40°	283.4	10.2
40°-50°	406.1	14.6
50°-60°	538.4	19.3
60°-70°	673.7	24.2
70°-80°	492.0	17.6
80°-90°	56.7	2.0
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°	2789.2	100.0
0°-180°	2789.2	100.0



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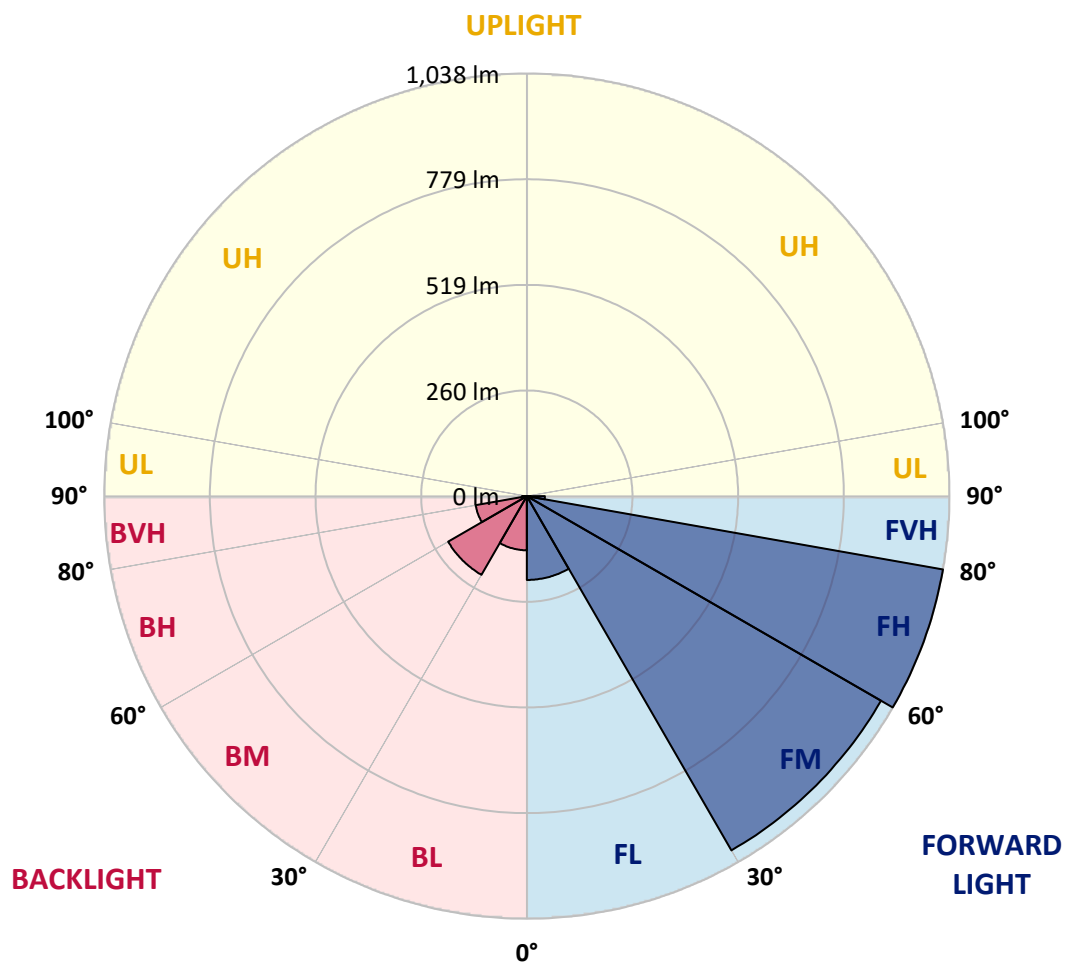
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.9	7.4			
FM (30°-60°)	1004.8	36.0			
FH (60°-80°)	1038.1	37.2			G1/1800
FVH (80°-90°)	44.3	1.6			G1/100
BL (0°-30°)	133.0	4.8	B1/500		
BM (30°-60°)	223.1	8.0	B1/1000		
BH (60°-80°)	127.6	4.6	B1/500		G1/500
BVH (80°-90°)	12.5	0.4			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°	55°	65°	74°	75°	85°
0°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	436.7	439.1	441.3	443.5	445.4	450.2	451.2	456.4	457.8	459.0	460.6
5°	412.2	414.0	416.3	419.9	423.7	432.3	438.3	449.8	456.2	458.2	463.8
7.5°	399.0	399.6	402.6	405.6	410.0	418.5	426.7	444.6	457.4	459.6	471.6
10°	389.4	390.2	393.0	397.2	401.6	409.4	419.7	440.9	461.8	465.2	482.3
12.5°	385.9	385.5	388.8	391.6	397.8	407.6	418.3	441.1	467.8	472.6	497.7
15°	399.6	397.0	399.0	398.0	400.0	409.6	422.3	445.6	475.3	481.3	513.8
17.5°	429.7	427.5	426.1	417.5	411.8	417.3	429.3	451.8	483.1	489.5	528.2
20°	474.7	468.4	463.2	448.8	433.1	431.3	439.7	458.0	490.5	496.7	543.5
22.5°	525.8	520.8	512.4	487.1	462.8	450.8	453.0	469.4	501.3	508.2	561.0
25°	590.5	590.3	573.0	538.9	502.2	477.9	473.3	487.7	513.6	520.2	575.4
27.5°	664.1	659.1	638.6	594.7	548.5	511.4	500.5	506.4	523.4	530.3	587.0
30°	727.1	727.7	706.9	658.9	597.9	544.1	523.6	519.8	529.8	536.7	597.9
32.5°	794.6	791.2	772.1	722.7	651.3	579.2	538.5	529.4	536.5	542.9	612.9
35°	858.0	854.2	837.7	784.5	710.1	618.0	558.5	544.5	552.1	559.2	631.4
37.5°	918.4	919.0	900.3	849.6	767.1	663.7	588.3	567.2	575.4	583.2	659.5
40°	971.2	968.2	953.7	908.0	826.3	710.3	621.8	598.1	614.1	621.4	695.0
42.5°	988.0	987.8	993.5	965.4	888.5	765.7	663.5	646.3	668.9	679.8	738.6
45°	973.4	977.8	1010.3	1009.5	950.7	829.3	720.5	704.9	737.6	749.8	791.8
47.5°	958.9	965.6	1009.7	1034.8	1006.5	899.3	790.6	778.9	825.9	843.5	847.0
50°	937.9	944.1	996.7	1038.4	1040.6	970.2	881.3	866.6	927.0	945.1	907.0
52.5°	914.4	919.2	973.6	1035.8	1056.9	1025.6	970.2	966.0	1035.4	1050.1	968.0
55°	784.7	805.2	939.7	1030.2	1068.1	1067.9	1056.7	1070.5	1153.6	1175.5	1036.0
57.5°	710.3	721.1	844.1	1027.0	1089.2	1107.1	1146.0	1175.7	1279.9	1299.5	1111.1
60°	686.0	695.6	796.2	1023.2	1131.1	1168.3	1233.3	1281.5	1415.5	1439.6	1195.0
62.5°	663.9	675.6	776.7	992.9	1181.9	1265.2	1337.5	1395.9	1558.6	1587.1	1278.5
65°	619.0	627.2	741.0	967.4	1230.1	1403.5	1487.8	1521.9	1697.3	1729.4	1333.9
67.5°	541.3	549.1	660.5	908.8	1261.4	1547.4	1652.2	1652.4	1804.5	1830.8	1345.5
70°	450.0	456.0	544.5	781.1	1196.2	1639.7	1800.5	1737.7	1834.8	1846.2	1290.1
72.5°	321.7	326.9	398.8	577.4	980.8	1564.9	1834.2	1734.1	1761.3	1757.7	1132.6
75°	198.3	208.3	244.3	352.4	609.5	1231.3	1650.8	1571.3	1479.0	1468.9	852.8
77.5°	129.3	134.5	165.2	207.9	268.9	706.9	1253.8	1178.1	933.9	922.2	458.4
80°	77.7	86.3	108.2	130.7	121.8	270.3	715.9	585.2	330.0	326.3	140.9
82.5°	41.7	49.6	76.3	80.9	68.4	95.5	259.3	190.3	105.6	104.4	52.8
85°	33.1	36.9	54.8	51.2	38.7	48.4	101.2	79.3	54.2	53.0	19.9
87.5°	20.1	25.3	41.5	34.5	19.3	17.5	46.4	37.5	25.5	23.7	7.8
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°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	463.6	464.6	465.6	463.6	464.4	463.4	463.4	463.4	460.8	460.0	462.4
5°	468.0	469.4	470.2	464.0	460.2	454.6	450.0	442.9	438.9	436.3	436.3
7.5°	477.1	478.7	475.1	461.2	447.8	432.7	417.3	404.4	395.2	391.2	392.4
10°	490.3	490.9	478.9	453.4	424.7	396.8	374.9	357.8	346.4	340.6	339.8
12.5°	505.8	503.2	479.7	436.1	393.6	356.0	329.3	307.3	292.6	287.0	284.2
15°	521.0	514.8	476.7	415.4	358.3	313.1	279.0	258.1	249.1	246.5	245.5
17.5°	534.7	523.0	466.6	385.7	317.3	262.9	237.8	230.4	231.4	233.8	234.8
20°	547.1	529.2	452.2	350.4	266.1	223.8	217.6	224.4	230.0	233.6	234.2
22.5°	560.8	535.3	432.1	307.5	224.2	205.7	213.1	221.0	226.6	230.2	230.8
25°	571.2	535.1	403.8	256.5	197.7	200.9	209.7	216.8	221.0	223.6	223.4
27.5°	577.8	530.3	366.7	214.5	187.3	197.5	205.9	210.5	212.9	215.0	214.7
30°	579.8	521.0	319.9	183.6	182.4	194.3	200.7	203.5	205.3	207.3	207.3
32.5°	583.8	506.8	268.3	166.4	178.8	191.1	194.9	197.1	195.7	190.7	189.7
35°	588.3	490.9	219.6	158.4	175.4	188.9	192.5	186.7	171.4	169.4	168.6
37.5°	596.9	476.3	178.2	152.7	174.6	190.1	193.1	169.8	156.9	150.7	149.7
40°	611.5	461.6	150.5	148.7	175.6	195.3	185.0	161.8	140.5	128.6	126.6
42.5°	630.8	443.7	134.9	146.7	178.4	203.7	182.2	150.3	127.0	119.0	117.8
45°	653.1	420.1	127.4	146.3	181.8	207.9	183.0	141.1	121.0	114.8	114.4
47.5°	676.2	396.8	124.2	145.9	186.0	206.1	172.0	138.3	118.6	116.8	118.0
50°	701.0	370.3	121.6	144.9	189.5	206.1	166.0	137.7	119.4	123.4	127.4
52.5°	724.3	348.0	118.6	141.9	190.9	202.5	164.2	139.9	120.6	119.6	120.8
55°	752.6	336.6	117.0	137.7	188.3	191.5	162.0	145.9	121.6	113.4	113.4
57.5°	784.9	334.2	114.6	132.1	179.8	176.2	161.8	149.5	119.0	111.4	110.0
60°	823.9	339.4	111.6	125.0	169.6	164.4	160.4	149.5	114.8	108.0	108.6
62.5°	855.4	338.8	109.8	118.8	155.9	152.1	157.8	147.5	113.2	107.6	107.4
65°	862.8	325.9	104.6	110.8	139.1	137.3	154.9	142.5	111.0	105.4	103.8
67.5°	837.7	296.8	96.7	100.1	121.2	121.4	149.9	135.9	108.0	104.2	101.6
70°	766.5	240.0	85.1	87.3	102.0	104.6	142.5	128.0	103.0	98.9	92.7
72.5°	641.4	172.6	71.7	72.3	81.1	87.9	129.7	117.4	95.5	86.1	79.5
75°	474.9	114.6	58.4	57.6	60.8	71.4	110.8	105.6	85.9	71.4	68.0
77.5°	251.1	67.8	45.0	45.2	43.2	54.8	87.9	91.7	76.3	60.2	56.8
80°	85.9	40.7	32.3	33.7	30.5	39.1	65.2	76.3	65.2	50.2	44.4
82.5°	39.3	24.9	23.1	24.1	21.9	26.5	44.8	57.8	52.0	36.5	29.5
85°	19.9	14.9	14.9	16.3	14.5	13.6	24.7	38.3	38.1	25.1	21.7
87.5°	8.2	7.2	6.8	7.8	6.8	5.2	7.0	13.8	20.1	15.1	9.6
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)