

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: P672288

Luminaire Tested: **CCP-SA-1B-827-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672288  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-827-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T3R distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

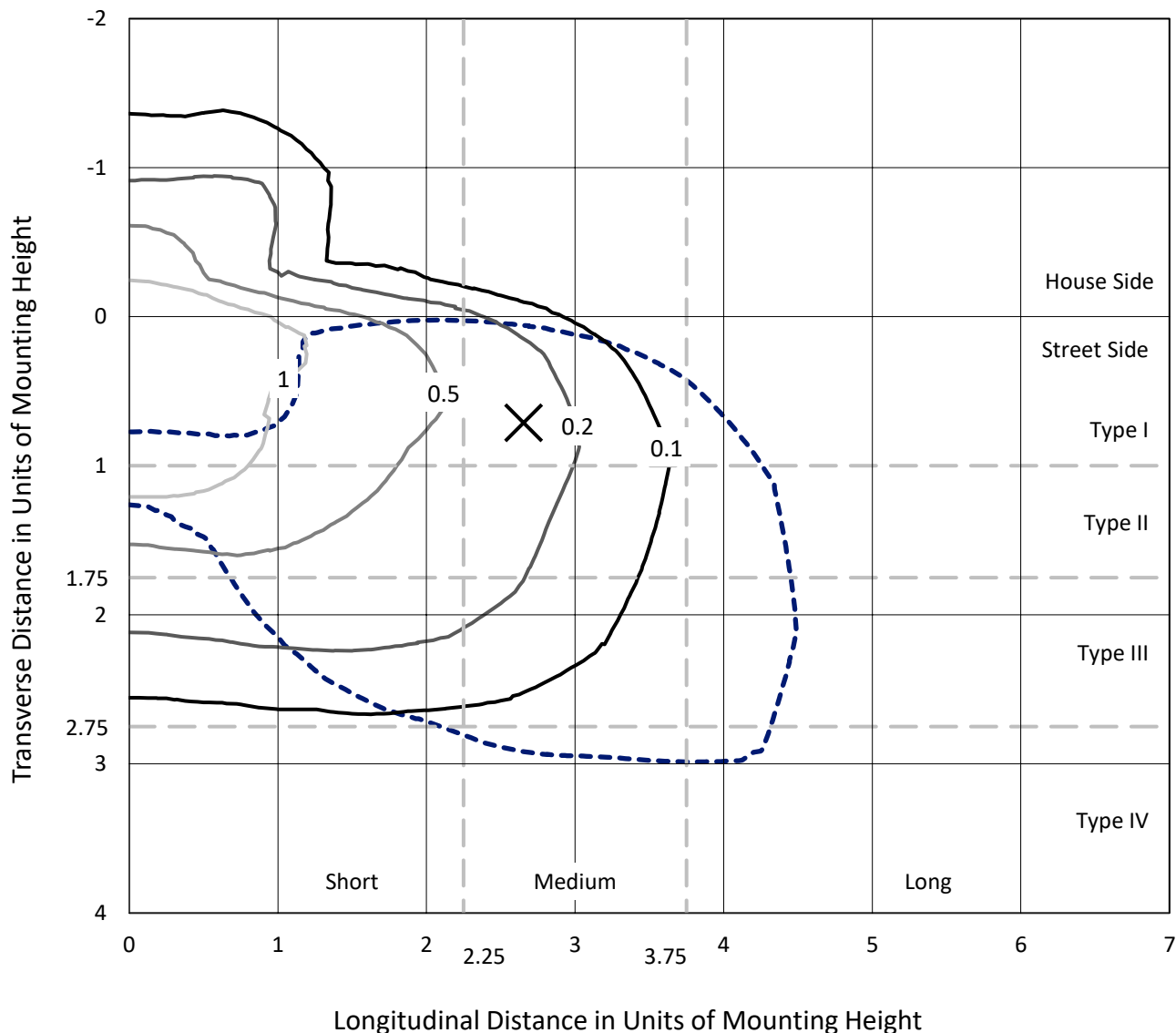
Lumens per Lamp: N/A  
Luminaire Lumens: 2580.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

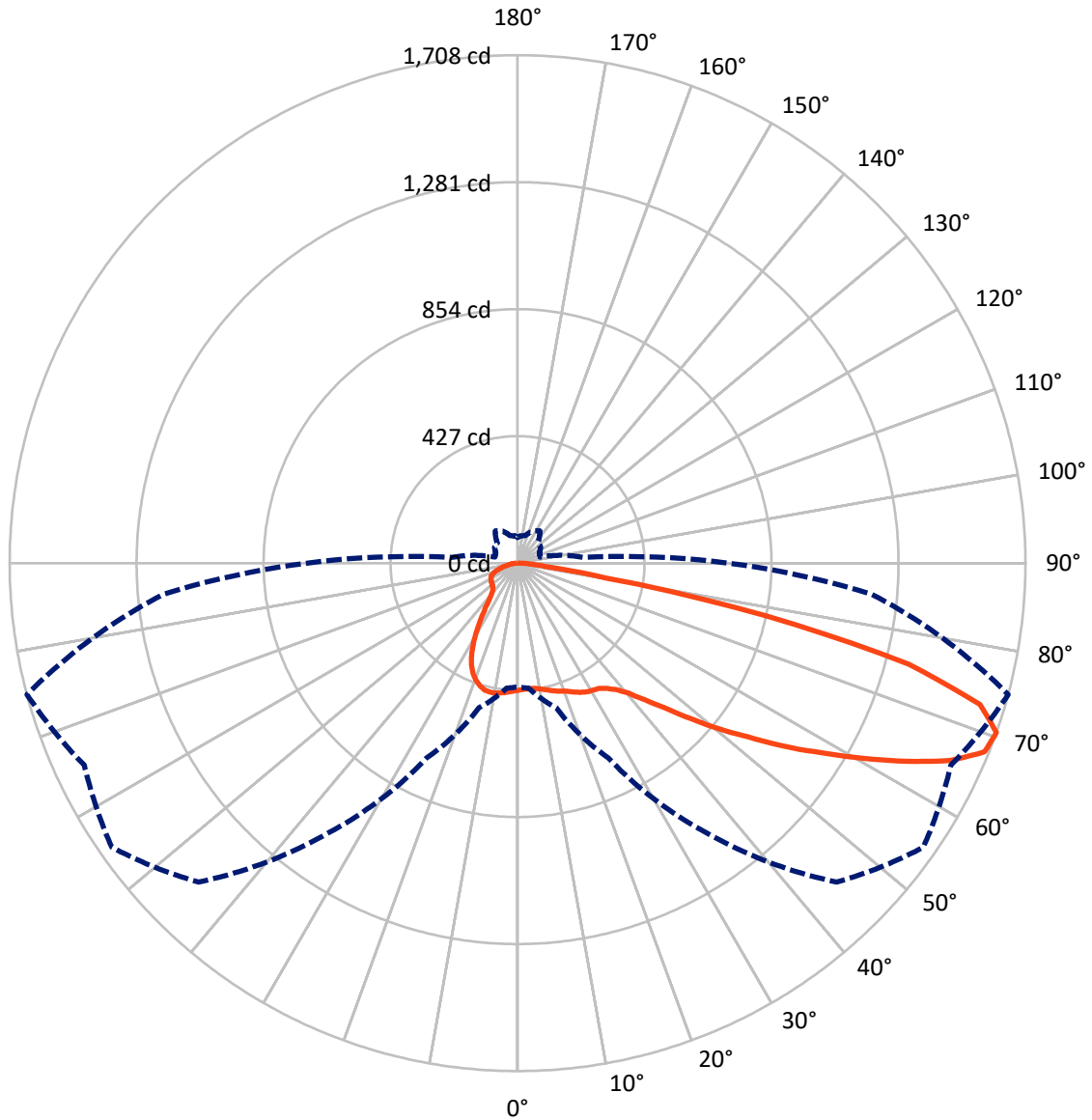
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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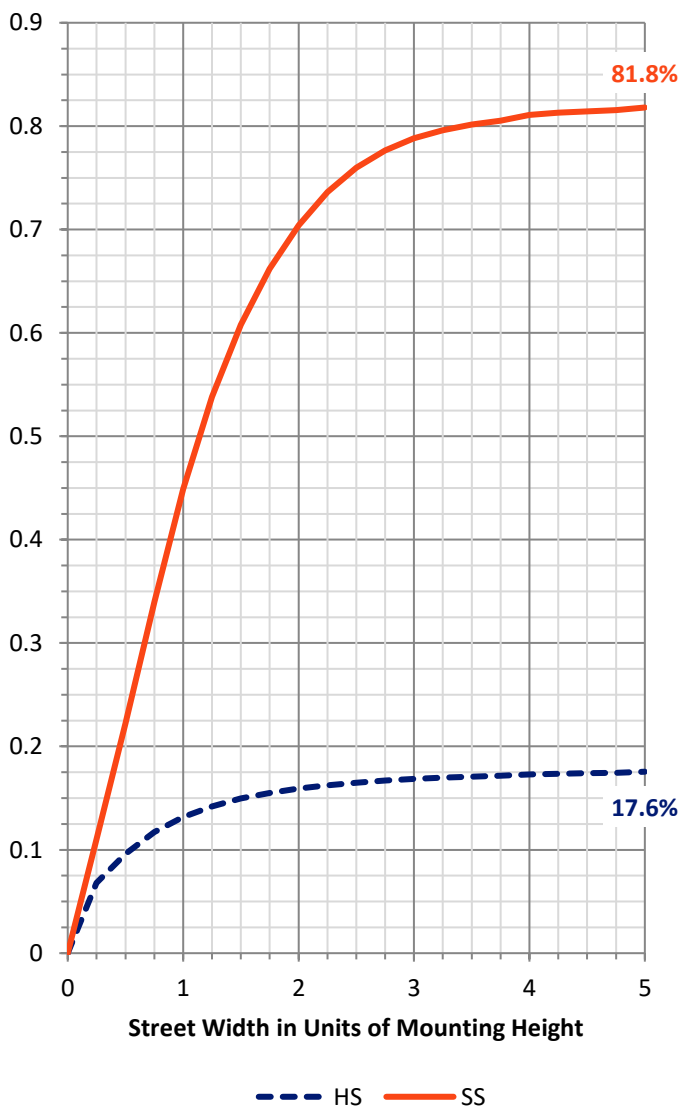
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.1	0.0	459.1
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	2121.2	0.0	2121.2
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2580.3	0.0	2580.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.4	1.5
10°-20°	102.5	4.0
20°-30°	172.6	6.7
30°-40°	262.2	10.2
40°-50°	375.7	14.6
50°-60°	498.0	19.3
60°-70°	623.3	24.2
70°-80°	455.1	17.6
80°-90°	52.5	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°	2580.3	100.0
0°-180°	2580.3	100.0



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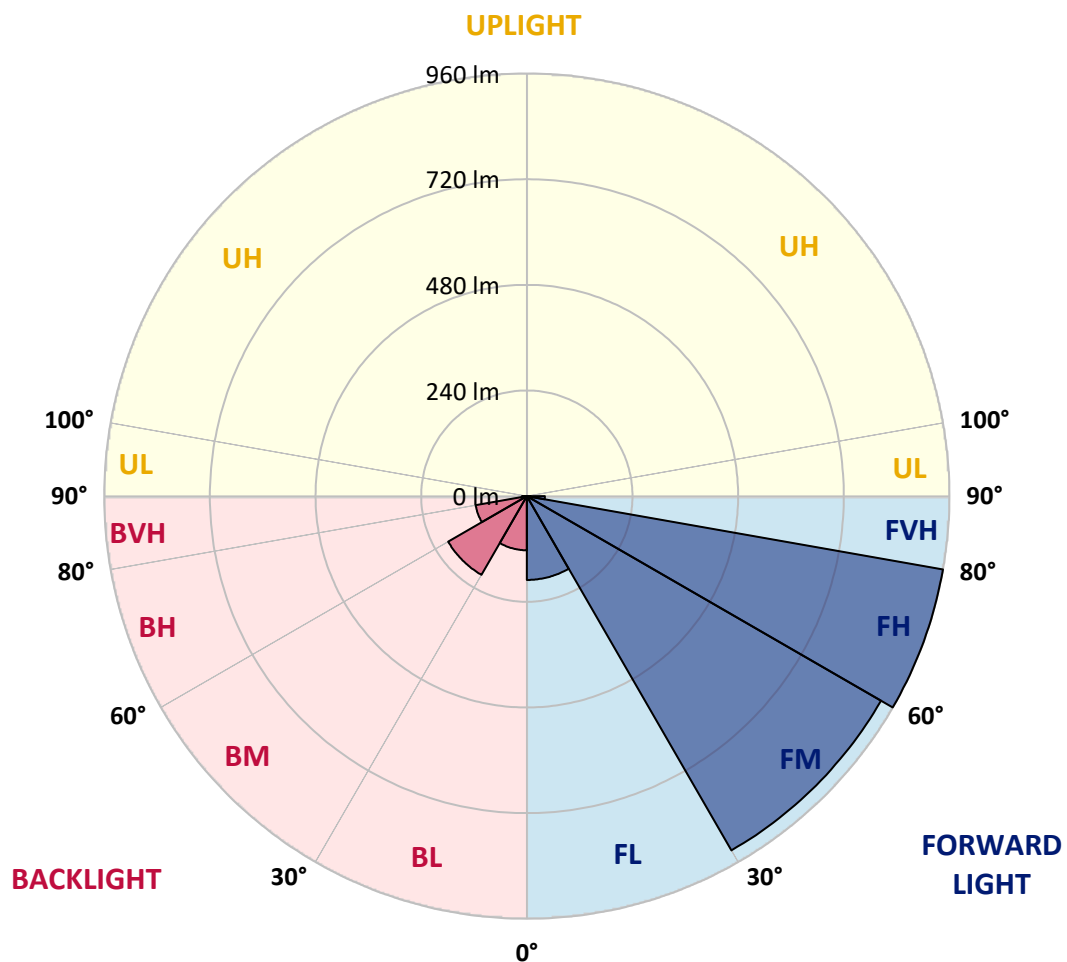
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.4	7.4			
FM (30°-60°)	929.5	36.0			
FH (60°-80°)	960.3	37.2			G1/1800
FVH (80°-90°)	41.0	1.6			G1/100
BL (0°-30°)	123.1	4.8	B1/500		
BM (30°-60°)	206.4	8.0	B0/220		
BH (60°-80°)	118.1	4.6	B1/500		G1/500
BVH (80°-90°)	11.5	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°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	404.0	406.3	408.3	410.3	412.0	416.5	417.4	422.2	423.5	424.6	426.1
5°	381.4	383.0	385.1	388.4	392.0	399.9	405.5	416.1	422.0	423.9	429.1
7.5°	369.1	369.7	372.5	375.2	379.3	387.1	394.7	411.3	423.1	425.2	436.3
10°	360.2	360.9	363.5	367.4	371.5	378.8	388.2	407.9	427.2	430.4	446.2
12.5°	357.0	356.7	359.6	362.2	368.0	377.1	386.9	408.1	432.8	437.3	460.5
15°	369.7	367.3	369.1	368.2	370.0	379.0	390.7	412.2	439.7	445.2	475.3
17.5°	397.5	395.5	394.2	386.2	381.0	386.0	397.2	417.9	446.9	452.9	488.7
20°	439.1	433.4	428.5	415.2	400.7	399.0	406.8	423.7	453.8	459.5	502.8
22.5°	486.5	481.8	474.0	450.6	428.2	417.0	419.1	434.3	463.8	470.1	519.0
25°	546.2	546.1	530.1	498.5	464.6	442.1	437.8	451.2	475.1	481.3	532.3
27.5°	614.4	609.7	590.8	550.1	507.4	473.1	463.1	468.5	484.2	490.5	543.1
30°	672.7	673.2	653.9	609.6	553.1	503.4	484.4	480.9	490.2	496.5	553.1
32.5°	735.1	731.9	714.3	668.6	602.5	535.8	498.2	489.8	496.3	502.2	567.0
35°	793.7	790.2	775.0	725.8	656.9	571.7	516.7	503.7	510.8	517.3	584.1
37.5°	849.6	850.2	832.9	785.9	709.6	614.0	544.2	524.7	532.3	539.6	610.1
40°	898.5	895.7	882.3	840.0	764.4	657.1	575.2	553.3	568.2	574.8	643.0
42.5°	914.1	913.9	919.1	893.1	822.0	708.3	613.8	597.9	618.8	628.9	683.3
45°	900.5	904.6	934.7	933.9	879.5	767.2	666.6	652.1	682.3	693.7	732.5
47.5°	887.1	893.3	934.1	957.3	931.1	832.0	731.4	720.6	764.0	780.4	783.5
50°	867.6	873.4	922.0	960.7	962.7	897.5	815.3	801.7	857.6	874.3	839.1
52.5°	845.9	850.4	900.7	958.3	977.7	948.8	897.5	893.6	957.9	971.4	895.5
55°	726.0	744.9	869.3	953.1	988.1	988.0	977.6	990.4	1067.2	1087.5	958.4
57.5°	657.1	667.1	780.9	950.1	1007.6	1024.2	1060.2	1087.7	1184.0	1202.2	1027.9
60°	634.6	643.5	736.6	946.6	1046.4	1080.8	1141.0	1185.5	1309.5	1331.8	1105.5
62.5°	614.2	625.0	718.6	918.5	1093.4	1170.5	1237.3	1291.3	1441.9	1468.3	1182.7
65°	572.6	580.2	685.5	894.9	1138.0	1298.4	1376.4	1407.9	1570.2	1599.9	1234.0
67.5°	500.8	508.0	611.0	840.7	1166.9	1431.5	1528.5	1528.6	1669.4	1693.7	1244.7
70°	416.3	421.8	503.7	722.6	1106.6	1516.9	1665.7	1607.5	1697.4	1708.0	1193.5
72.5°	297.6	302.5	368.9	534.2	907.4	1447.7	1696.9	1604.2	1629.5	1626.1	1047.7
75°	183.4	192.7	226.0	326.0	563.9	1139.1	1527.2	1453.6	1368.2	1358.9	788.9
77.5°	119.6	124.4	152.8	192.4	248.8	653.9	1159.9	1089.9	863.9	853.2	424.1
80°	71.9	79.8	100.1	120.9	112.7	250.1	662.3	541.4	305.2	301.9	130.3
82.5°	38.6	45.9	70.6	74.8	63.3	88.4	239.9	176.0	97.7	96.5	48.8
85°	30.6	34.2	50.7	47.3	35.8	44.7	93.6	73.3	50.1	49.0	18.4
87.5°	18.6	23.4	38.4	31.9	17.8	16.2	42.9	34.7	23.6	21.9	7.2
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°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
2.5°	428.9	429.8	430.8	428.9	429.6	428.7	428.7	428.7	426.3	425.6	427.8
5°	433.0	434.3	435.0	429.3	425.7	420.5	416.3	409.8	406.1	403.7	403.7
7.5°	441.3	442.8	439.5	426.7	414.2	400.3	386.0	374.1	365.6	361.9	363.0
10°	453.6	454.2	443.0	419.4	392.9	367.1	346.8	331.1	320.5	315.1	314.3
12.5°	467.9	465.5	443.8	403.5	364.1	329.4	304.7	284.3	270.7	265.5	262.9
15°	482.0	476.2	441.0	384.3	331.4	289.6	258.1	238.8	230.4	228.0	227.1
17.5°	494.6	483.9	431.7	356.9	293.5	243.2	220.0	213.2	214.1	216.3	217.2
20°	506.1	489.6	418.3	324.2	246.2	207.0	201.3	207.6	212.8	216.1	216.7
22.5°	518.8	495.2	399.8	284.4	207.4	190.3	197.2	204.4	209.6	213.0	213.5
25°	528.4	495.0	373.6	237.3	182.9	185.9	194.0	200.5	204.4	206.8	206.7
27.5°	534.5	490.5	339.2	198.5	173.2	182.7	190.5	194.8	197.0	198.9	198.7
30°	536.4	482.0	296.0	169.9	168.8	179.7	185.7	188.3	189.9	191.8	191.8
32.5°	540.1	468.8	248.2	153.9	165.4	176.8	180.3	182.3	181.0	176.4	175.5
35°	544.2	454.2	203.1	146.5	162.3	174.7	178.1	172.7	158.6	156.7	156.0
37.5°	552.2	440.6	164.9	141.3	161.5	175.8	178.6	157.1	145.2	139.4	138.5
40°	565.7	427.0	139.3	137.6	162.5	180.7	171.2	149.7	130.0	119.0	117.2
42.5°	583.6	410.5	124.8	135.7	165.1	188.5	168.6	139.1	117.5	110.1	109.0
45°	604.2	388.6	117.9	135.4	168.2	192.4	169.3	130.5	112.0	106.2	105.8
47.5°	625.5	367.1	114.9	135.0	172.1	190.7	159.1	127.9	109.7	108.1	109.2
50°	648.6	342.6	112.5	134.1	175.3	190.7	153.6	127.4	110.5	114.2	117.9
52.5°	670.1	322.0	109.7	131.3	176.6	187.3	151.9	129.4	111.6	110.7	111.8
55°	696.3	311.4	108.2	127.4	174.2	177.1	149.8	135.0	112.5	104.9	104.9
57.5°	726.2	309.1	106.0	122.2	166.4	163.0	149.7	138.3	110.1	103.0	101.7
60°	762.2	314.0	103.2	115.7	156.9	152.1	148.4	138.3	106.2	99.9	100.4
62.5°	791.3	313.4	101.6	109.9	144.3	140.7	145.9	136.5	104.7	99.5	99.3
65°	798.2	301.5	96.7	102.5	128.7	127.0	143.3	131.8	102.7	97.5	96.0
67.5°	775.0	274.6	89.5	92.7	112.1	112.3	138.7	125.7	99.9	96.4	93.9
70°	709.1	222.1	78.7	80.8	94.3	96.7	131.8	118.5	95.2	91.5	85.8
72.5°	593.4	159.7	66.3	66.8	75.0	81.3	119.9	108.6	88.4	79.7	73.5
75°	439.3	106.0	54.0	53.3	56.3	66.1	102.5	97.7	79.5	66.1	62.9
77.5°	232.3	62.8	41.6	41.8	39.9	50.7	81.3	84.9	70.6	55.7	52.5
80°	79.5	37.7	29.9	31.2	28.2	36.2	60.3	70.6	60.3	46.4	41.0
82.5°	36.4	23.0	21.4	22.3	20.2	24.5	41.4	53.5	48.1	33.8	27.3
85°	18.4	13.7	13.7	15.0	13.4	12.6	22.8	35.5	35.3	23.2	20.1
87.5°	7.6	6.7	6.3	7.2	6.3	4.8	6.5	12.8	18.6	13.9	8.9
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)