

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: P671313

Luminaire Tested: **CCP-SA-1B-840-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671313  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-840-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL2 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

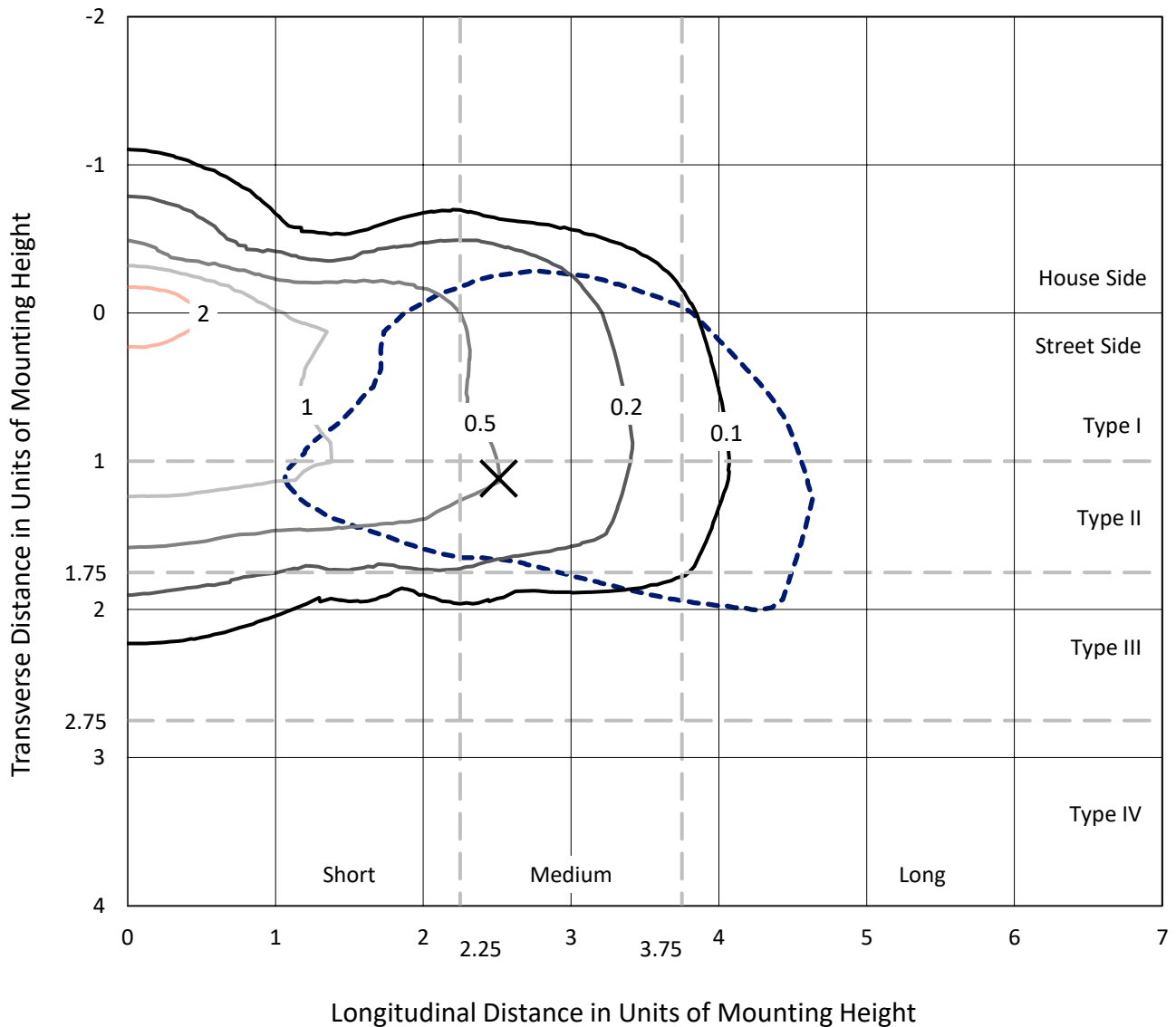
Lumens per Lamp: N/A  
Luminaire Lumens: 2914.2 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

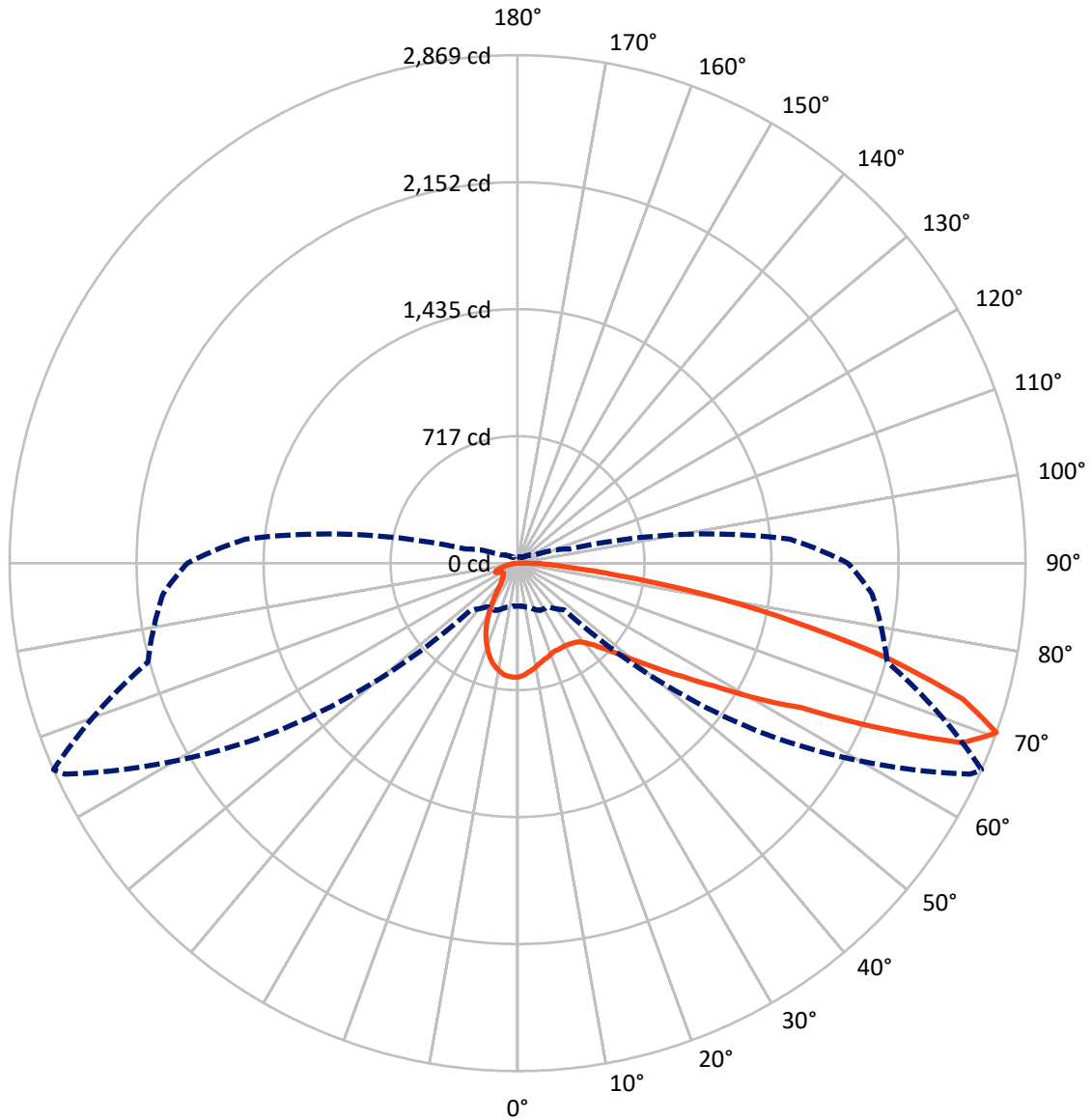
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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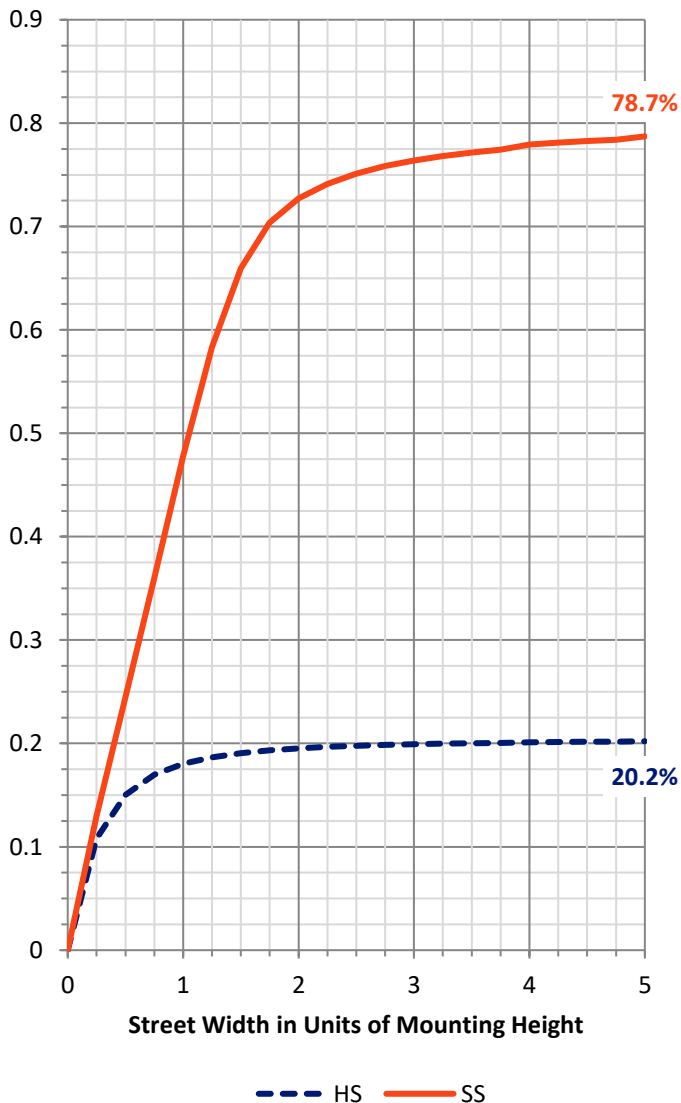
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	596.5	0.0	596.5
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	2317.7	0.0	2317.7
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	2914.2	0.0	2914.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	2.0
10°-20°	140.1	4.8
20°-30°	192.5	6.6
30°-40°	258.1	8.9
40°-50°	374.4	12.8
50°-60°	569.1	19.5
60°-70°	702.9	24.1
70°-80°	522.7	17.9
80°-90°	97.5	3.3
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°	2914.2	100.0
0°-180°	2914.2	100.0



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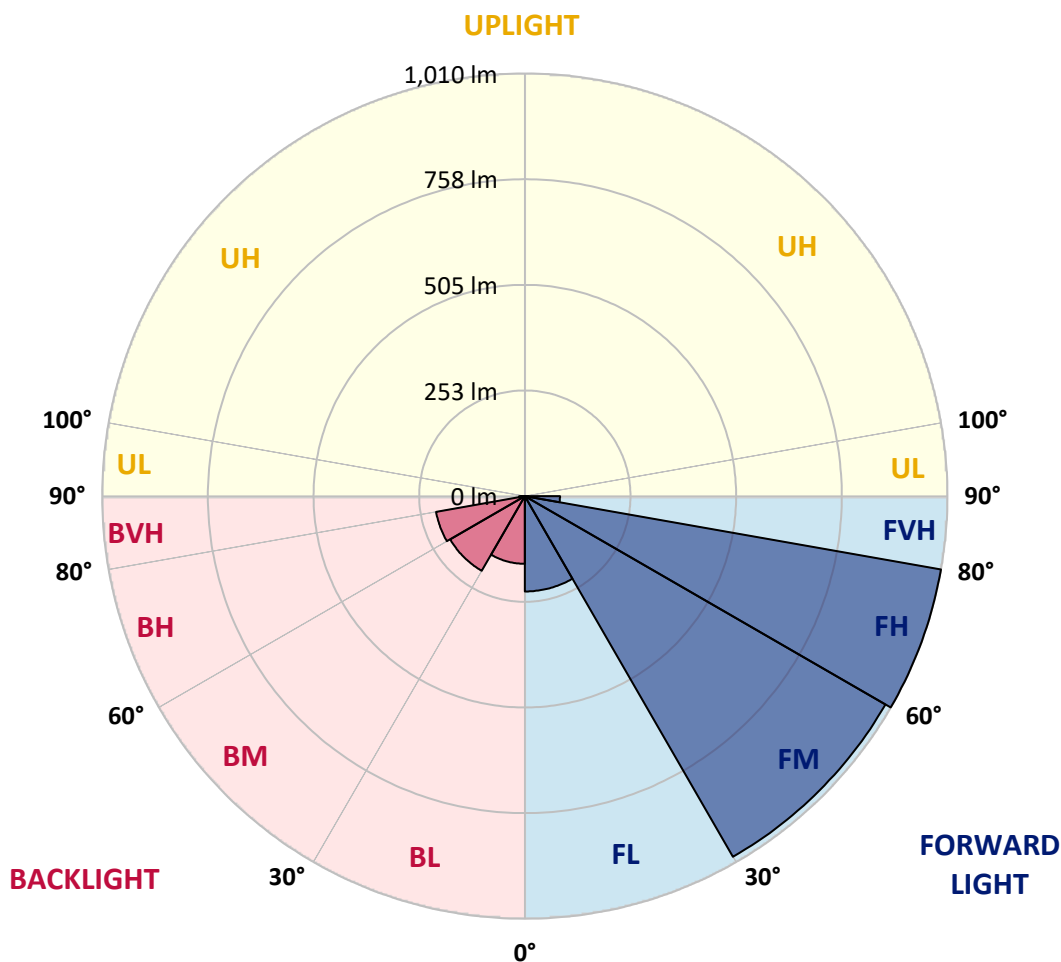
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.9	7.8			
FM (30°-60°)	995.5	34.2			
FH (60°-80°)	1010.2	34.7			G1/1800
FVH (80°-90°)	84.0	2.9			G1/100
BL (0°-30°)	161.7	5.5	B1/500		
BM (30°-60°)	206.1	7.1	B0/220		
BH (60°-80°)	215.3	7.4	B1/500		G1/500
BVH (80°-90°)	13.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8
2.5°	612.4	615.7	616.7	618.9	624.3	628.7	635.2	638.4	635.2	639.5	639.5
5°	570.1	565.8	576.6	581.0	587.5	596.1	611.3	623.2	620.0	633.0	643.8
7.5°	534.4	534.4	537.6	547.4	555.0	568.0	584.2	602.6	608.1	625.4	641.7
10°	501.8	506.2	506.2	521.4	525.7	540.9	568.0	590.7	591.8	621.1	643.8
12.5°	484.5	482.3	493.2	497.5	510.5	525.7	547.4	575.5	576.6	608.1	639.5
15°	470.4	472.6	478.0	488.8	500.8	512.7	533.3	559.3	564.7	601.6	637.3
17.5°	471.5	472.6	472.6	480.2	489.9	504.0	523.5	553.9	557.1	592.9	634.1
20°	478.0	473.7	476.9	480.2	486.7	499.7	515.9	541.9	545.2	591.8	641.7
22.5°	492.1	488.8	487.8	486.7	485.6	493.2	513.8	535.4	538.7	586.4	644.9
25°	514.8	513.8	506.2	498.6	493.2	493.2	509.4	540.9	539.8	586.4	647.1
27.5°	541.9	541.9	540.9	526.8	510.5	501.8	512.7	538.7	537.6	586.4	652.5
30°	578.8	578.8	575.5	562.5	533.3	508.3	514.8	536.5	539.8	582.1	648.2
32.5°	618.9	617.8	621.1	609.1	578.8	538.7	527.9	540.9	544.1	586.4	649.3
35°	648.2	654.7	665.5	654.7	624.3	570.1	546.3	549.5	551.7	587.5	653.6
37.5°	681.8	689.4	704.5	713.2	680.7	617.8	575.5	563.6	563.6	601.6	654.7
40°	730.5	723.0	749.0	764.1	751.1	676.3	621.1	589.6	590.7	620.0	668.8
42.5°	766.3	773.9	801.0	828.1	811.8	747.9	670.9	631.9	631.9	647.1	690.4
45°	806.4	815.1	853.0	885.5	897.5	833.5	739.2	692.6	690.4	700.2	729.5
47.5°	850.9	862.8	906.1	944.1	975.5	922.4	827.0	766.3	765.2	772.8	794.5
50°	901.8	906.1	941.9	1011.3	1074.1	1040.5	934.3	870.4	864.9	868.2	897.5
52.5°	917.0	913.7	954.9	1029.7	1144.6	1184.7	1080.6	988.5	986.3	978.8	1016.7
55°	861.7	872.5	912.6	1008.0	1202.0	1354.9	1241.1	1150.0	1130.5	1109.9	1155.4
57.5°	751.1	752.2	797.7	910.5	1157.6	1495.8	1513.1	1308.3	1309.3	1254.1	1306.1
60°	584.2	581.0	616.7	718.6	1030.8	1539.1	1810.1	1560.8	1550.0	1398.2	1445.9
62.5°	421.6	415.1	422.7	482.3	770.6	1473.0	2101.7	1843.7	1798.2	1545.6	1582.5
65°	346.8	350.1	353.3	356.6	432.5	1215.0	2191.6	2305.4	2244.7	1718.0	1733.1
67.5°	287.2	289.4	303.5	323.0	320.8	717.5	2087.6	2732.5	2709.7	1931.5	1863.2
70°	243.9	242.8	259.1	294.8	300.2	372.9	1652.9	2820.3	2869.1	2161.3	2010.6
72.5°	195.1	197.3	211.4	259.1	294.8	314.3	951.7	2631.7	2630.6	2338.0	1931.5
75°	139.8	139.8	159.3	214.6	285.1	311.1	526.8	2136.4	2176.5	2197.1	1675.7
77.5°	92.1	96.5	111.6	160.4	267.7	304.6	333.8	1553.2	1603.1	1643.2	1282.2
80°	62.9	65.0	74.8	111.6	226.5	306.7	273.1	1044.9	1064.4	907.2	520.3
82.5°	37.9	39.0	49.9	78.0	162.6	291.6	256.9	576.6	564.7	274.2	149.6
85°	20.6	21.7	31.4	52.0	107.3	254.7	252.5	282.9	263.4	100.8	62.9
87.5°	7.6	7.6	14.1	26.0	61.8	174.5	220.0	168.0	157.2	50.9	29.3
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°	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8
2.5°	644.9	644.9	644.9	644.9	643.8	639.5	642.7	641.7	635.2	636.2	631.9
5°	642.7	648.2	644.9	640.6	635.2	622.2	617.8	614.6	605.9	602.6	605.9
7.5°	648.2	643.8	641.7	634.1	612.4	600.5	585.3	566.9	553.9	550.6	553.9
10°	647.1	647.1	637.3	615.7	595.1	560.4	540.9	508.3	489.9	484.5	485.6
12.5°	642.7	646.0	630.8	596.1	557.1	514.8	479.1	444.4	411.9	398.9	396.7
15°	647.1	643.8	616.7	572.3	518.1	459.6	407.5	356.6	326.3	306.7	302.4
17.5°	640.6	637.3	598.3	539.8	467.2	392.4	327.3	272.1	241.7	234.1	234.1
20°	648.2	627.6	576.6	500.8	414.0	318.7	245.0	203.8	196.2	196.2	198.4
22.5°	647.1	625.4	558.2	462.8	350.1	240.6	182.1	170.2	171.3	179.9	178.8
25°	640.6	621.1	532.2	420.6	282.9	181.0	150.7	147.4	155.0	164.8	163.7
27.5°	639.5	609.1	508.3	370.7	215.7	143.1	131.2	131.2	138.7	147.4	146.3
30°	633.0	599.4	479.1	314.3	162.6	124.6	120.3	120.3	123.6	127.9	127.9
32.5°	631.9	586.4	446.6	255.8	130.1	112.7	110.6	111.6	111.6	113.8	112.7
35°	623.2	569.0	413.0	198.4	112.7	106.2	104.1	103.0	103.0	101.9	101.9
37.5°	620.0	558.2	378.3	153.9	105.1	100.8	98.6	95.4	94.3	94.3	93.2
40°	623.2	547.4	344.7	124.6	98.6	96.5	93.2	88.9	87.8	87.8	87.8
42.5°	635.2	546.3	310.0	108.4	95.4	92.1	87.8	83.5	82.4	83.5	82.4
45°	662.3	555.0	276.4	100.8	91.0	87.8	82.4	79.1	78.0	79.1	79.1
47.5°	706.7	578.8	246.0	96.5	87.8	83.5	78.0	74.8	74.8	74.8	74.8
50°	780.4	624.3	216.8	93.2	85.6	80.2	74.8	70.5	69.4	69.4	70.5
52.5°	891.0	702.4	192.9	91.0	82.4	75.9	70.5	67.2	65.0	63.9	65.0
55°	1024.3	816.2	185.3	88.9	78.0	72.6	67.2	62.9	60.7	60.7	59.6
57.5°	1167.4	941.9	198.4	86.7	74.8	68.3	62.9	58.5	56.4	55.3	55.3
60°	1322.4	1090.4	246.0	85.6	71.5	63.9	58.5	55.3	52.0	50.9	50.9
62.5°	1463.3	1224.8	331.7	84.5	69.4	59.6	54.2	49.9	47.7	46.6	46.6
65°	1623.7	1374.4	415.1	88.9	68.3	56.4	49.9	45.5	43.4	42.3	42.3
67.5°	1763.5	1504.4	463.9	99.7	71.5	52.0	44.4	41.2	40.1	39.0	39.0
70°	1865.4	1544.5	311.1	109.5	77.0	48.8	40.1	37.9	35.8	35.8	35.8
72.5°	1728.8	1378.7	184.3	103.0	72.6	45.5	35.8	33.6	32.5	32.5	31.4
75°	1478.4	1173.9	142.0	83.5	58.5	39.0	31.4	29.3	28.2	28.2	27.1
77.5°	1091.5	841.1	105.1	66.1	45.5	31.4	27.1	26.0	24.9	23.8	23.8
80°	427.1	368.5	71.5	48.8	33.6	24.9	22.8	21.7	20.6	19.5	19.5
82.5°	132.2	111.6	41.2	32.5	23.8	19.5	18.4	17.3	16.3	15.2	15.2
85°	57.4	55.3	27.1	20.6	16.3	13.0	13.0	11.9	10.8	9.8	9.8
87.5°	28.2	27.1	15.2	9.8	8.7	6.5	6.5	5.4	4.3	4.3	4.3
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)