

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: P674633

Luminaire Tested: **CCP-SA-2D-840-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674633  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-840-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

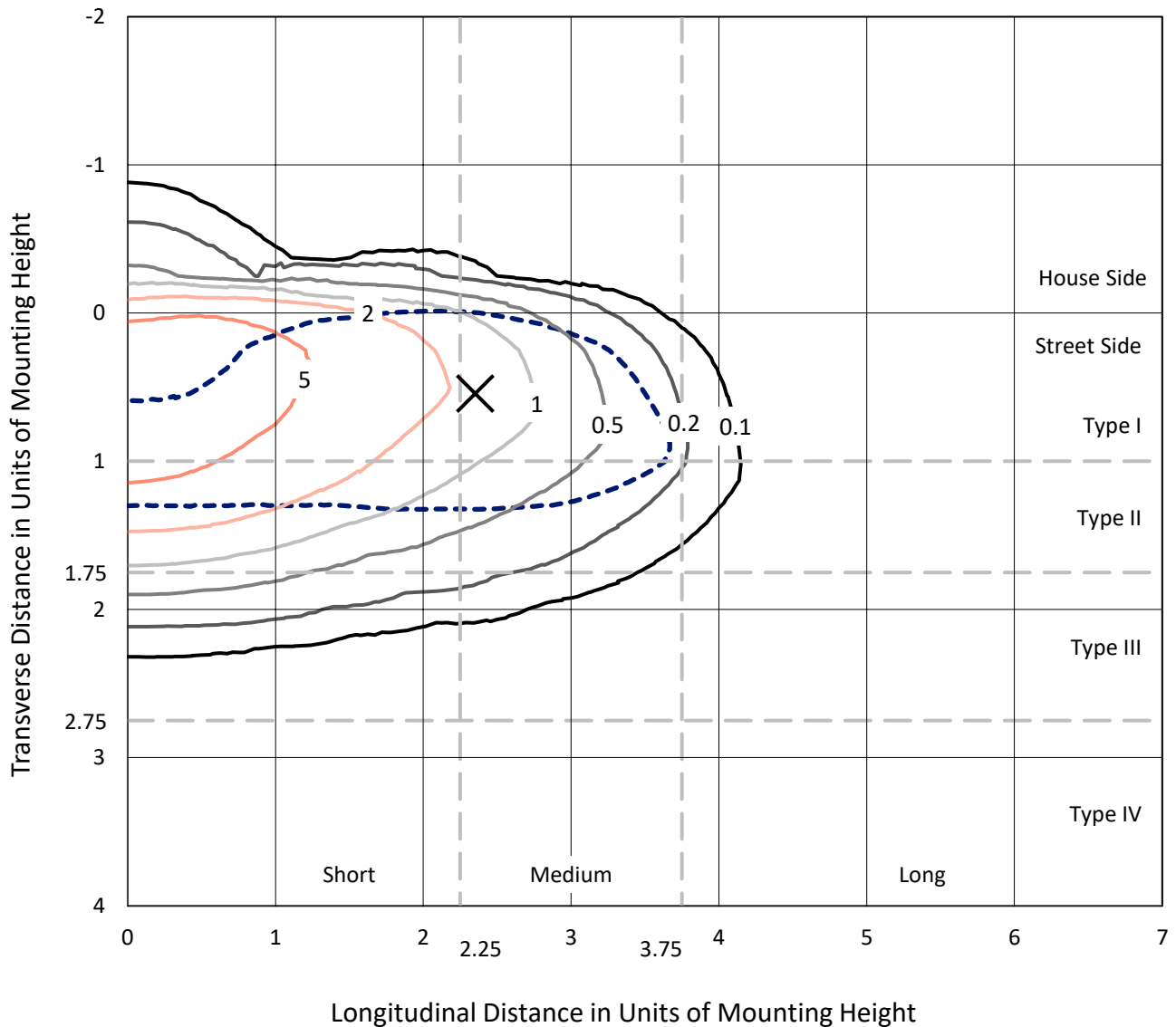
Lumens per Lamp: N/A  
Luminaire Lumens: 7699.4 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

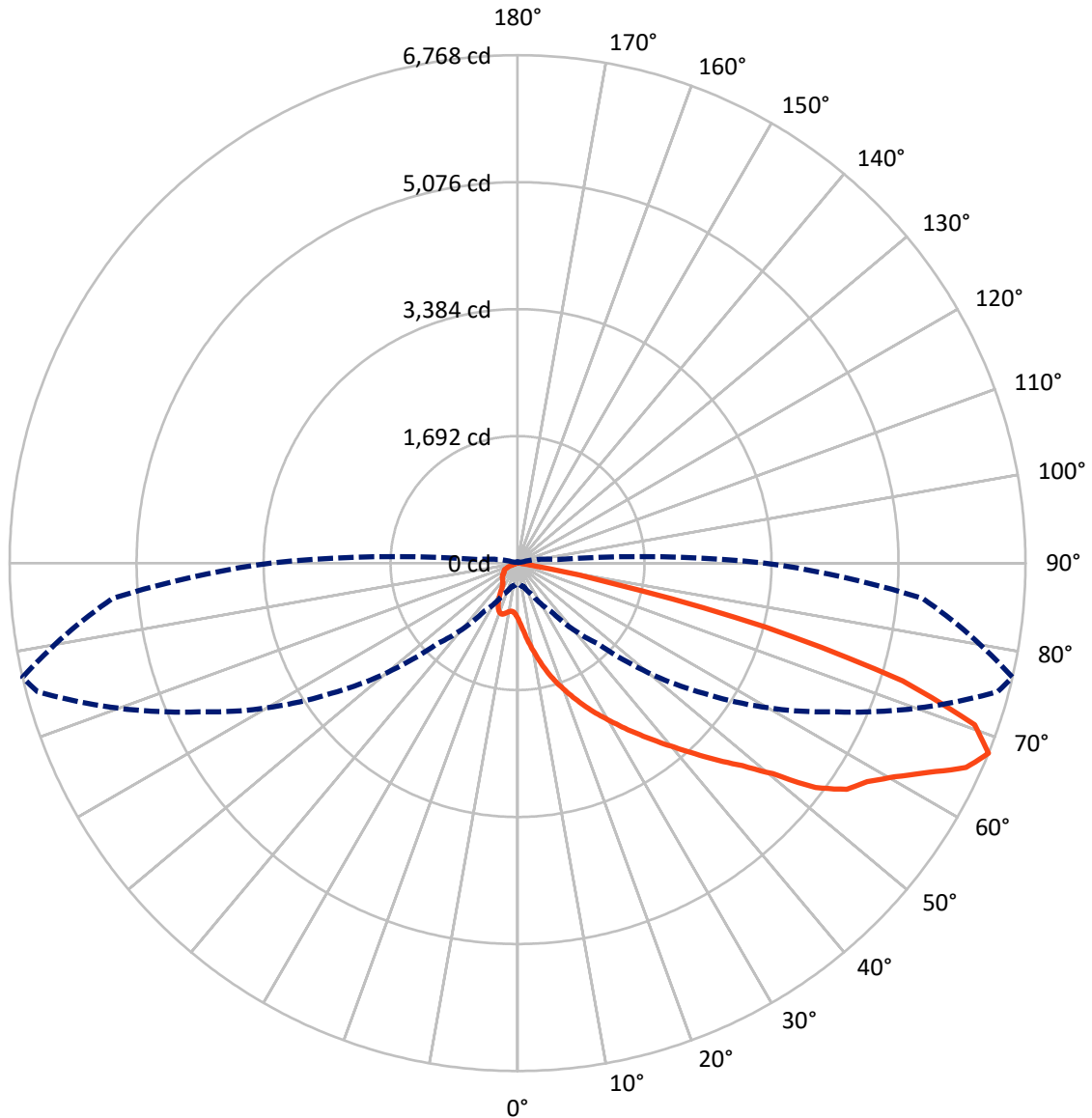
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	481.1	0.0	481.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	7218.2	0.0	7218.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	7699.4	0.0	7699.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	1.1
10°-20°	320.5	4.2
20°-30°	626.2	8.1
30°-40°	1094.7	14.2
40°-50°	1596.6	20.7
50°-60°	1866.9	24.2
60°-70°	1513.4	19.7
70°-80°	568.5	7.4
80°-90°	25.9	0.3
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°	7699.4	100.0
0°-180°	7699.4	100.0



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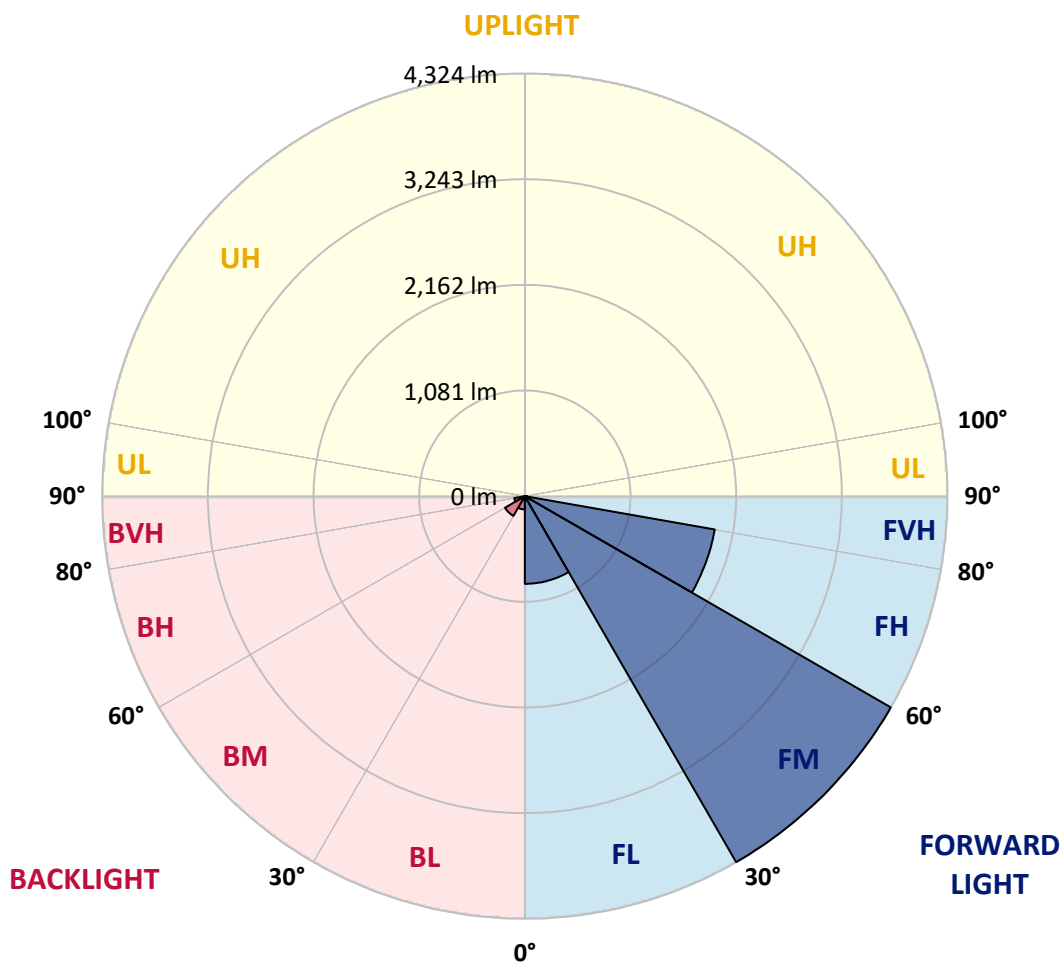
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.9	11.6			
FM (30°-60°)	4324.1	56.2			
FH (60°-80°)	1972.8	25.6			G2/5000
FVH (80°-90°)	24.4	0.3			G1/100
BL (0°-30°)	136.4	1.8	B1/500		
BM (30°-60°)	234.1	3.0	B1/1000		
BH (60°-80°)	109.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	1107.2	1066.9	1074.6	1057.9	1036.3	986.3	933.5	880.6	833.4	822.9	775.7
5°	1417.9	1405.4	1392.2	1381.1	1335.9	1273.3	1178.1	1057.2	948.1	929.3	831.3
7.5°	1659.1	1640.3	1652.1	1618.1	1570.8	1510.4	1389.4	1260.1	1091.9	1064.1	911.9
10°	1837.0	1826.6	1832.2	1816.2	1793.2	1732.8	1613.2	1451.3	1256.7	1203.8	1002.3
12.5°	1970.5	1972.6	1996.9	1998.3	1979.5	1930.2	1803.7	1634.8	1406.1	1358.8	1102.4
15°	2067.8	2069.9	2099.8	2131.7	2153.3	2127.6	2012.9	1823.8	1581.9	1517.3	1207.3
17.5°	2083.8	2085.2	2138.0	2202.6	2269.4	2291.6	2203.3	2011.5	1742.5	1668.8	1327.6
20°	2094.2	2106.0	2153.3	2227.6	2333.3	2402.1	2354.1	2191.5	1898.2	1812.7	1445.7
22.5°	2220.7	2220.7	2248.5	2301.3	2385.4	2493.2	2483.4	2356.9	2049.7	1964.9	1563.2
25°	2489.0	2489.0	2461.9	2448.0	2493.2	2578.0	2602.3	2533.5	2222.8	2122.7	1686.9
27.5°	2844.2	2844.2	2801.8	2699.6	2660.7	2696.1	2721.8	2687.1	2382.6	2283.9	1817.6
30°	3212.5	3225.1	3151.4	3021.4	2885.2	2858.1	2833.0	2825.4	2552.9	2441.7	1950.3
32.5°	3582.3	3580.9	3489.2	3327.2	3149.3	3053.4	2972.1	2963.0	2733.6	2624.5	2076.1
35°	3877.7	3878.4	3781.8	3615.7	3409.9	3287.6	3156.9	3114.5	2931.7	2810.1	2226.3
37.5°	4133.5	4118.9	4014.6	3856.9	3665.0	3538.5	3375.9	3265.4	3136.8	3013.1	2376.4
40°	4280.1	4260.7	4159.2	4009.1	3863.8	3767.2	3624.0	3447.5	3362.0	3228.5	2547.4
42.5°	4301.7	4285.0	4217.6	4127.2	4008.4	3923.6	3885.4	3653.2	3598.3	3477.4	2751.7
45°	4241.2	4214.1	4191.9	4144.6	4111.2	4070.2	4122.4	3872.1	3869.4	3749.1	2954.0
47.5°	4091.1	4054.3	4059.8	4111.9	4149.5	4186.3	4349.0	4159.2	4142.5	4029.9	3219.5
50°	3834.6	3816.5	3877.7	3980.6	4129.3	4276.7	4574.8	4452.5	4518.5	4412.9	3585.8
52.5°	3313.3	3335.6	3518.4	3765.8	4023.0	4319.1	4786.8	4890.4	5059.3	4972.4	3954.2
55°	2687.8	2679.4	2923.4	3362.7	3773.4	4292.0	4879.3	5148.3	5413.8	5322.7	4159.2
57.5°	2165.1	2179.7	2344.4	2778.8	3350.2	4082.7	4900.8	5283.1	5556.3	5495.8	4349.0
60°	1625.0	1638.9	1789.1	2167.2	2787.2	3646.3	4722.9	5330.4	5823.9	5778.0	4652.0
62.5°	1034.2	1052.3	1203.1	1570.8	2130.3	2967.9	4323.2	5281.0	6103.3	6141.5	5065.6
65°	508.8	524.8	636.0	917.5	1424.2	2219.3	3765.8	5092.7	6459.1	6568.3	5397.1
67.5°	281.5	289.1	327.4	467.1	794.4	1522.2	3026.3	4690.2	6622.5	6768.4	5419.3
70°	218.9	221.0	235.6	272.5	387.1	893.1	2152.6	4020.2	6284.0	6460.5	4968.2
72.5°	184.2	187.0	193.9	206.4	241.9	465.0	1352.6	3106.9	5287.3	5367.2	3843.7
75°	134.8	139.0	158.5	169.6	191.1	282.2	596.4	1866.9	3494.0	3415.5	2150.5
77.5°	113.3	116.8	121.6	137.6	157.8	192.5	209.2	782.6	1422.1	1236.5	564.4
80°	77.2	81.3	94.5	102.9	133.5	127.2	86.9	209.9	285.7	232.8	108.4
82.5°	54.9	58.4	65.3	84.1	96.6	67.4	47.3	63.9	68.8	65.3	35.4
85°	17.4	22.2	47.3	69.5	52.1	22.9	29.9	24.3	21.5	20.9	13.9
87.5°	3.5	3.5	23.6	27.8	20.9	11.8	10.4	7.6	9.7	9.7	7.6
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°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	753.4	722.2	677.0	634.6	591.5	560.9	539.4	517.8	509.5	506.0	497.0
5°	786.8	727.0	637.4	565.1	512.3	478.9	458.7	441.4	430.2	426.8	421.9
7.5°	834.8	748.6	620.0	536.6	483.8	447.6	414.9	377.4	347.5	335.7	330.8
10°	886.9	781.2	622.8	531.0	460.8	381.6	308.6	248.1	221.7	212.0	205.0
12.5°	963.3	817.4	634.6	524.8	392.0	272.5	197.4	172.4	166.1	164.7	163.3
15°	1039.8	868.1	654.0	483.1	292.6	185.6	164.0	155.0	151.5	148.0	148.0
17.5°	1117.0	916.8	661.7	401.7	202.3	160.6	149.4	141.8	136.2	133.5	131.4
20°	1203.8	968.2	639.4	302.3	161.9	146.7	134.1	125.1	120.2	117.5	115.4
22.5°	1297.7	1018.9	590.8	210.6	147.4	132.1	120.2	111.2	106.3	103.6	102.9
25°	1385.9	1062.7	513.0	158.5	132.8	118.2	107.0	99.4	95.9	93.1	92.4
27.5°	1477.0	1100.3	411.5	139.7	120.9	107.0	95.9	89.7	86.2	84.1	83.4
30°	1566.0	1126.0	306.5	127.9	110.5	96.6	86.9	82.0	78.5	76.5	75.8
32.5°	1657.7	1140.6	207.1	117.5	100.1	87.6	79.2	74.4	72.3	70.2	70.2
35°	1746.0	1138.5	149.4	107.7	91.7	79.2	71.6	68.1	67.4	65.3	65.3
37.5°	1842.6	1123.9	127.2	98.7	82.7	71.6	65.3	63.2	62.6	61.2	60.5
40°	1952.4	1091.2	116.1	91.7	75.1	65.3	59.8	58.4	57.7	56.3	56.3
42.5°	2072.7	1048.8	109.8	84.1	68.8	59.1	54.9	52.8	52.1	50.7	50.7
45°	2212.4	1008.5	105.6	76.5	63.2	54.2	50.0	48.0	47.3	45.9	45.9
47.5°	2402.8	985.6	98.7	69.5	57.0	49.3	45.2	43.8	42.4	41.0	41.0
50°	2664.8	958.5	89.7	62.6	52.1	44.5	41.7	39.6	38.9	37.5	37.5
52.5°	2880.3	900.8	80.6	55.6	46.6	41.0	38.2	36.8	35.4	34.8	34.8
55°	2956.1	833.4	71.6	50.0	42.4	38.2	35.4	34.1	33.4	32.7	32.7
57.5°	3077.0	811.8	63.2	44.5	38.2	35.4	32.7	32.0	31.3	30.6	29.9
60°	3283.4	824.3	55.6	39.6	34.8	32.0	29.9	29.2	27.8	26.4	26.4
62.5°	3483.6	809.0	47.3	34.8	29.9	28.5	26.4	25.0	22.2	20.2	18.8
65°	3532.3	706.9	41.0	29.2	25.0	23.6	21.5	18.8	14.6	11.8	11.8
67.5°	3296.6	537.3	35.4	25.0	20.9	19.5	15.3	12.5	9.0	7.0	7.0
70°	2720.4	340.6	29.2	19.5	17.4	13.2	9.7	9.0	6.3	5.6	4.9
72.5°	1962.8	186.3	24.3	16.0	12.5	8.3	7.0	5.6	4.2	2.8	2.8
75°	993.9	87.6	18.1	12.5	8.3	5.6	4.2	2.8	2.8	2.1	2.1
77.5°	281.5	40.3	11.8	8.3	5.6	3.5	2.8	2.1	2.1	1.4	1.4
80°	55.6	20.2	7.6	5.6	4.2	2.8	2.1	1.4	1.4	0.7	0.7
82.5°	20.2	10.4	5.6	4.2	3.5	2.8	1.4	0.7	0.7	0.0	0.0
85°	10.4	5.6	4.2	3.5	2.8	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	5.6	4.2	3.5	3.5	2.8	2.1	1.4	0.7	0.0	0.0	0.0
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)