

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: P676681

Luminaire Tested: **CCW-SA-2C-727-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676681  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-727-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

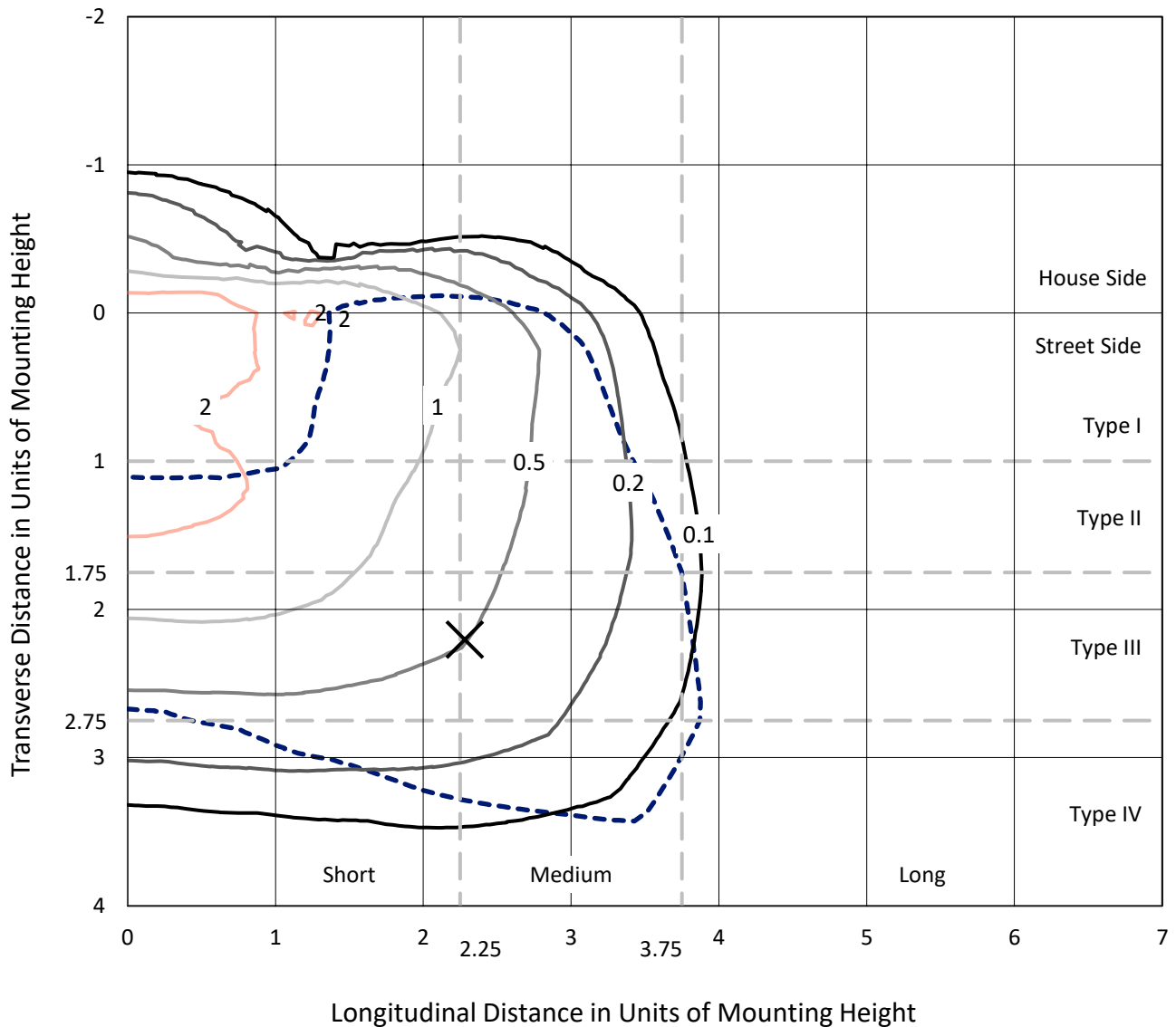
Lumens per Lamp: N/A  
Luminaire Lumens: 5455.4 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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

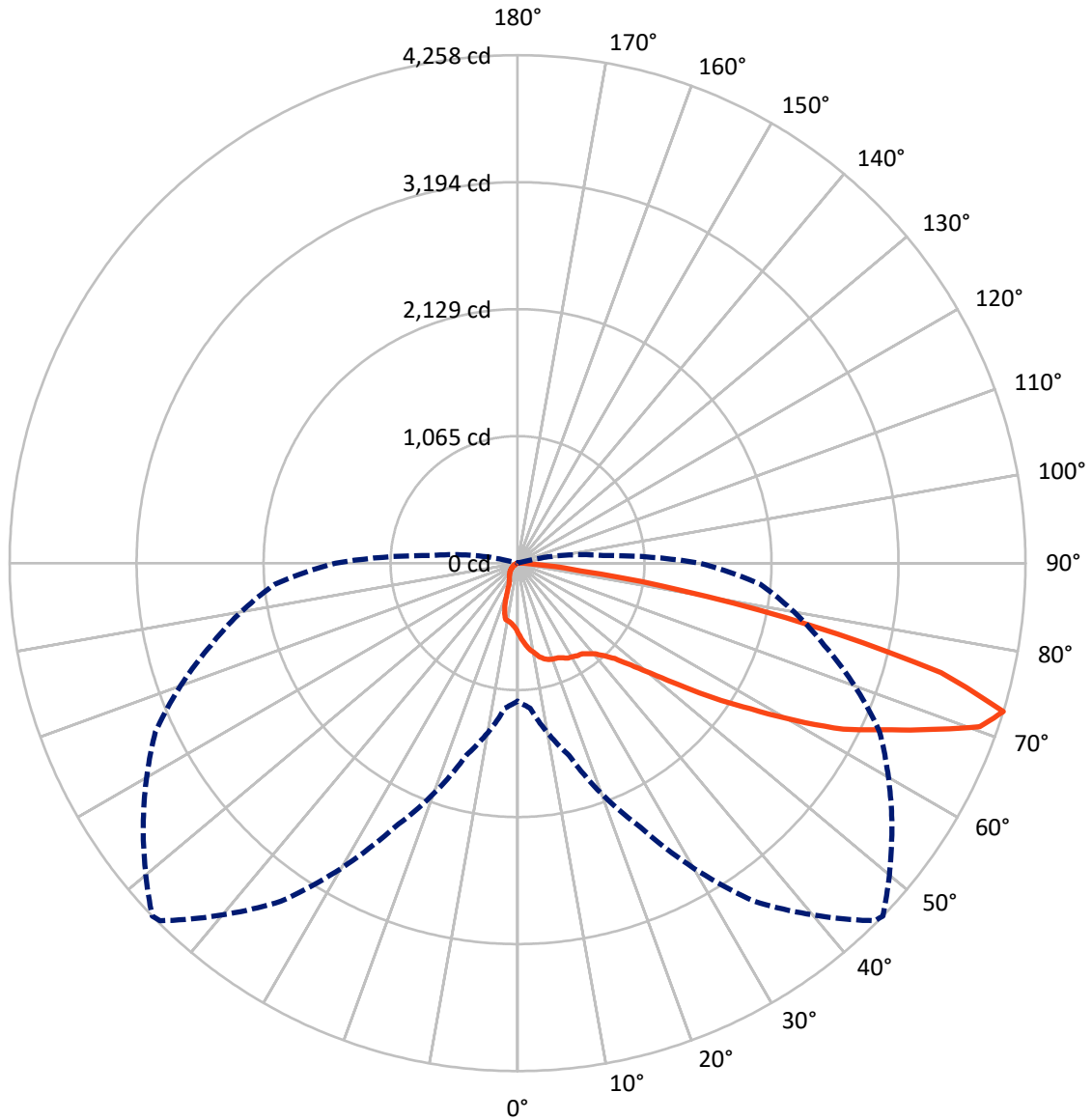
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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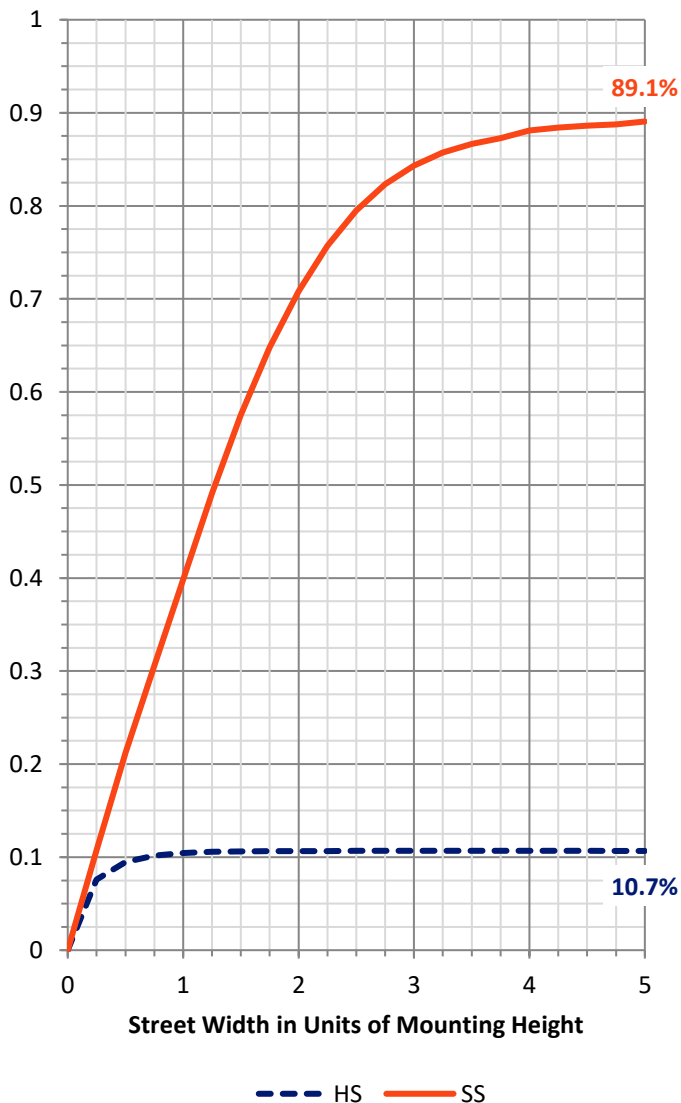
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	587.3	0.0	587.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4868.1	0.0	4868.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5455.4	0.0	5455.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.1
10°-20°	176.2	3.2
20°-30°	275.8	5.1
30°-40°	386.3	7.1
40°-50°	637.0	11.7
50°-60°	1144.9	21.0
60°-70°	1659.3	30.4
70°-80°	1035.6	19.0
80°-90°	82.1	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°	5455.4	100.0
0°-180°	5455.4	100.0



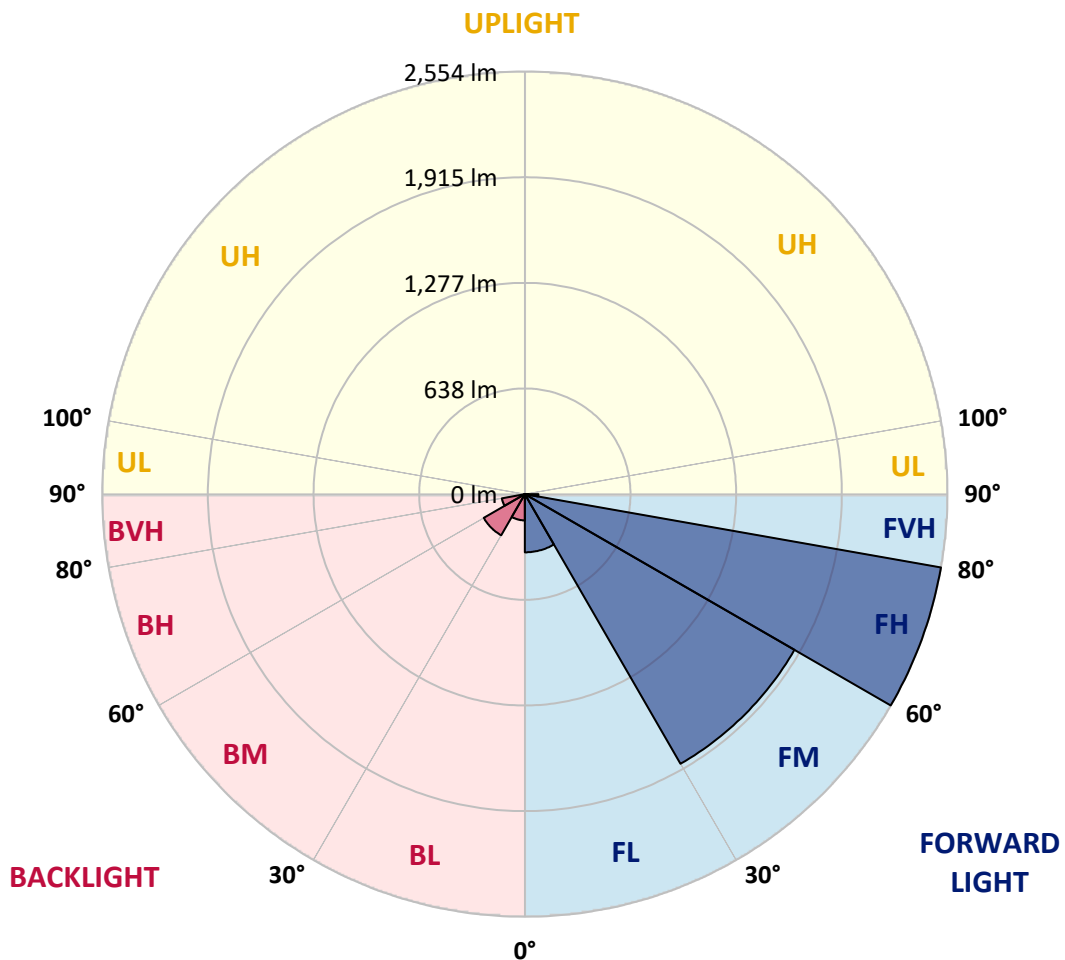
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.6	6.4			
FM (30°-60°)	1881.2	34.5			
FH (60°-80°)	2553.7	46.8			G2/5000
FVH (80°-90°)	81.6	1.5			G1/100
BL (0°-30°)	158.7	2.9	B1/500		
BM (30°-60°)	286.9	5.3	B1/1000		
BH (60°-80°)	141.2	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	652.6	649.8	654.0	652.6	635.9	638.7	637.3	626.2	606.7	595.6	588.6
5°	727.8	734.7	729.2	716.6	706.9	687.4	684.6	666.5	635.9	616.4	595.6
7.5°	805.7	805.7	794.6	775.1	754.2	733.3	730.6	699.9	673.5	640.1	610.9
10°	864.1	857.2	848.8	828.0	804.3	776.5	762.6	740.3	711.1	670.7	633.1
12.5°	915.6	904.5	890.6	860.0	832.1	801.5	804.3	768.1	748.6	712.5	656.8
15°	944.8	935.1	922.6	894.8	851.6	837.7	832.1	809.9	775.1	738.9	686.0
17.5°	951.8	944.8	928.2	892.0	868.3	851.6	850.2	823.8	808.5	777.9	719.4
20°	937.9	925.4	912.8	889.2	866.9	861.4	857.2	857.2	837.7	797.3	740.3
22.5°	914.2	900.3	893.4	879.4	861.4	860.0	862.7	860.0	844.7	818.2	762.6
25°	896.1	889.2	878.1	873.9	862.7	883.6	879.4	875.3	871.1	840.5	797.3
27.5°	901.7	900.3	892.0	875.3	866.9	889.2	901.7	903.1	901.7	871.1	829.4
30°	904.5	897.5	889.2	885.0	887.8	910.1	910.1	940.7	928.2	897.5	861.4
32.5°	936.5	932.3	904.5	894.8	896.1	922.6	924.0	954.6	950.4	929.5	889.2
35°	1004.7	976.9	936.5	908.7	908.7	943.5	932.3	976.9	988.0	954.6	908.7
37.5°	1106.3	1085.4	1013.0	950.4	926.8	951.8	962.9	988.0	1021.4	992.2	947.6
40°	1308.0	1303.9	1200.9	1065.9	972.7	994.9	999.1	1038.1	1060.3	1020.0	1007.5
42.5°	1603.0	1582.2	1486.2	1273.3	1056.2	1046.4	1061.7	1086.8	1139.7	1106.3	1075.7
45°	1891.1	1881.3	1785.3	1547.4	1207.8	1149.4	1141.1	1185.6	1263.5	1227.3	1203.7
47.5°	2099.8	2080.3	2026.1	1825.7	1430.5	1270.5	1276.0	1320.6	1419.4	1391.5	1398.5
50°	2259.8	2250.1	2193.1	2083.1	1711.6	1461.1	1450.0	1494.5	1628.1	1646.2	1665.7
52.5°	2435.2	2453.3	2376.7	2283.5	2044.2	1717.1	1692.1	1707.4	1880.0	1921.7	1976.0
55°	2603.6	2632.8	2556.2	2543.7	2392.0	2001.0	1996.8	1960.7	2183.3	2188.9	2218.1
57.5°	2713.5	2703.7	2698.2	2766.4	2739.9	2326.6	2305.8	2269.6	2471.4	2435.2	2522.8
60°	2721.8	2749.7	2842.9	3011.3	3058.6	2709.3	2678.7	2579.9	2720.4	2634.2	2801.2
62.5°	2784.5	2806.7	2979.3	3211.7	3272.9	3046.1	3066.9	2816.5	2933.3	2865.2	3110.1
65°	2625.8	2695.4	3041.9	3367.5	3554.0	3387.0	3366.1	3121.2	3151.8	3087.8	3414.8
67.5°	2482.5	2508.9	2870.7	3414.8	3776.6	3729.3	3721.0	3391.2	3377.2	3259.0	3501.1
70°	2017.7	2049.7	2407.3	3172.7	3851.8	4128.7	4109.2	3769.7	3530.3	3165.7	3058.6
72.5°	1156.4	1220.4	1668.4	2443.5	3460.7	4240.0	4258.1	3830.9	3349.4	2662.0	2042.8
75°	378.5	396.6	693.0	1384.6	2588.2	3698.7	3666.7	3292.4	2702.4	1757.5	922.6
77.5°	128.0	130.8	204.6	501.0	1434.7	2499.2	2517.3	2353.1	1660.1	730.6	254.7
80°	65.4	69.6	100.2	187.9	590.0	1360.9	1390.1	1341.4	695.8	215.7	61.2
82.5°	30.6	32.0	58.4	104.4	270.0	534.3	534.3	587.2	246.3	121.1	25.0
85°	11.1	11.1	30.6	59.8	114.1	178.1	179.5	180.9	129.4	90.4	11.1
87.5°	4.2	4.2	15.3	25.0	41.7	54.3	54.3	43.1	65.4	59.8	4.2
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°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1
2.5°	585.8	577.5	570.5	560.8	548.3	541.3	542.7	534.3	534.3	530.2	528.8
5°	585.8	577.5	559.4	542.7	531.6	517.6	510.7	505.1	505.1	502.3	503.7
7.5°	590.0	577.5	552.4	530.2	512.1	498.2	487.0	485.6	482.9	475.9	481.5
10°	615.1	597.0	555.2	524.6	503.7	488.4	468.9	463.4	455.0	442.5	443.9
12.5°	635.9	612.3	574.7	533.0	506.5	481.5	436.9	388.2	367.4	345.1	346.5
15°	666.5	633.1	581.7	544.1	506.5	425.8	345.1	282.5	249.1	232.4	232.4
17.5°	683.2	655.4	601.1	551.0	466.2	346.5	244.9	190.6	185.1	187.9	187.9
20°	718.0	680.5	623.4	556.6	399.4	246.3	179.5	173.9	176.7	182.3	180.9
22.5°	740.3	702.7	640.1	531.6	308.9	176.7	168.4	165.6	168.4	175.3	175.3
25°	758.4	734.7	666.5	470.3	218.5	160.0	157.2	160.0	162.8	165.6	169.8
27.5°	802.9	762.6	684.6	391.0	157.2	148.9	151.7	153.1	153.1	157.2	158.6
30°	832.1	800.1	698.5	302.0	139.2	137.8	140.5	141.9	143.3	147.5	148.9
32.5°	860.0	848.8	680.5	204.6	130.8	128.0	126.6	128.0	133.6	137.8	136.4
35°	900.3	893.4	654.0	141.9	122.5	116.9	114.1	115.5	119.7	123.8	122.5
37.5°	949.0	956.0	590.0	123.8	114.1	107.1	101.6	101.6	103.0	107.1	108.5
40°	1006.1	1024.2	514.9	115.5	108.5	100.2	94.6	87.7	86.3	84.9	86.3
42.5°	1110.4	1131.3	430.0	109.9	100.2	90.4	82.1	73.8	66.8	62.6	62.6
45°	1256.6	1239.9	318.7	104.4	96.0	82.1	69.6	59.8	50.1	45.9	45.9
47.5°	1458.3	1401.3	218.5	98.8	89.1	72.4	58.4	45.9	37.6	33.4	33.4
50°	1738.0	1550.2	141.9	93.2	84.9	62.6	47.3	33.4	27.8	26.4	27.8
52.5°	2002.4	1701.8	112.7	86.3	76.5	54.3	36.2	27.8	25.0	23.7	23.7
55°	2245.9	1778.4	100.2	79.3	69.6	44.5	30.6	23.7	22.3	20.9	20.9
57.5°	2451.9	1804.8	86.3	69.6	55.7	34.8	25.0	20.9	18.1	16.7	16.7
60°	2630.0	1811.8	66.8	55.7	40.4	26.4	20.9	18.1	15.3	12.5	12.5
62.5°	2771.9	1763.1	47.3	39.0	27.8	20.9	18.1	12.5	8.3	5.6	4.2
65°	2884.6	1665.7	32.0	26.4	18.1	15.3	11.1	5.6	1.4	0.0	0.0
67.5°	2752.4	1444.4	25.0	19.5	12.5	9.7	5.6	1.4	0.0	0.0	0.0
70°	2244.5	1120.2	18.1	12.5	8.3	2.8	1.4	0.0	0.0	0.0	0.0
72.5°	1527.9	722.2	13.9	8.3	4.2	1.4	0.0	0.0	0.0	0.0	0.0
75°	686.0	258.8	9.7	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	167.0	61.2	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.5	15.3	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	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)