

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: P677040

Luminaire Tested: **CCW-SA-1C-830-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677040  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-830-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

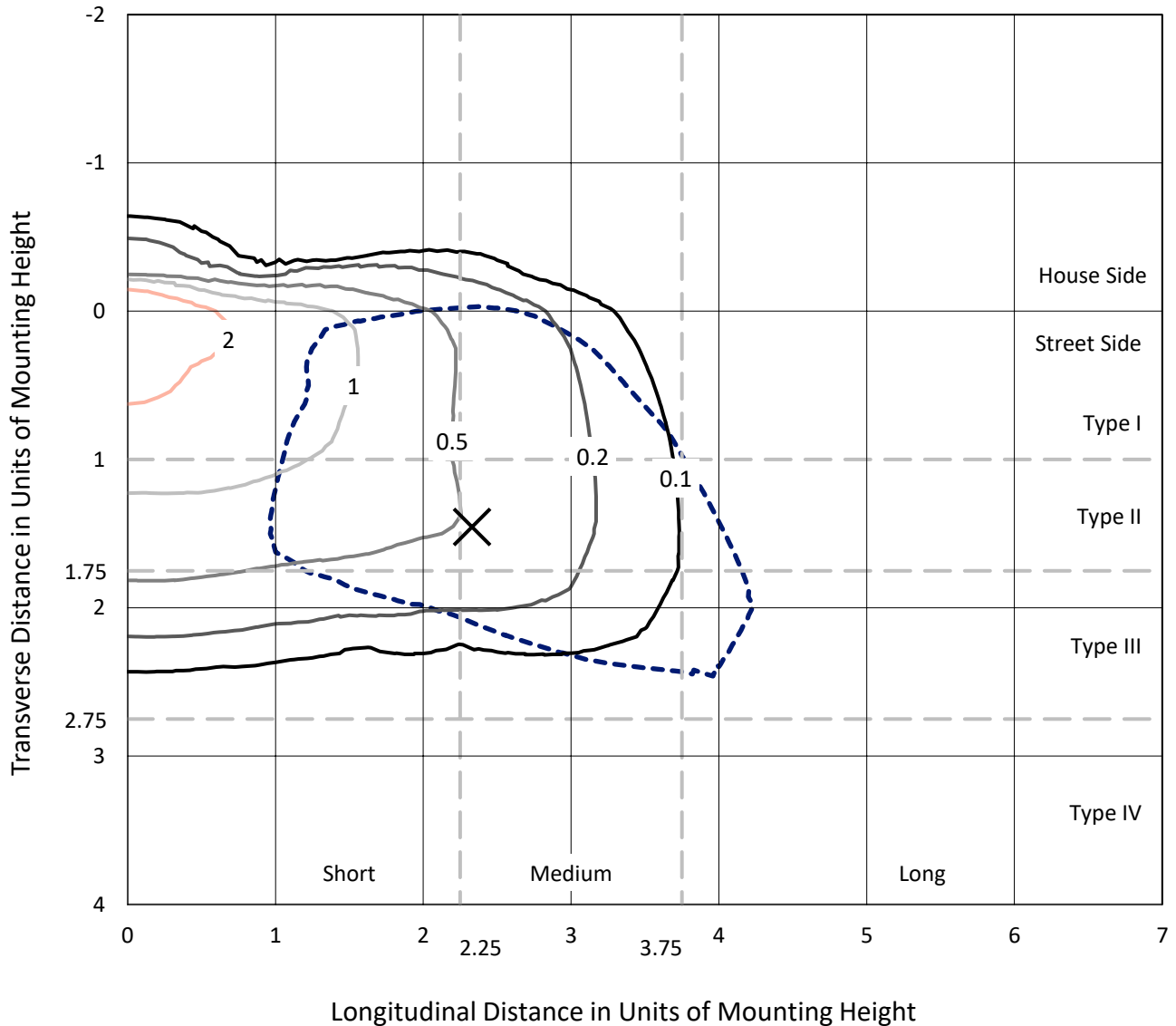
Lumens per Lamp: N/A  
Luminaire Lumens: 2968.7 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

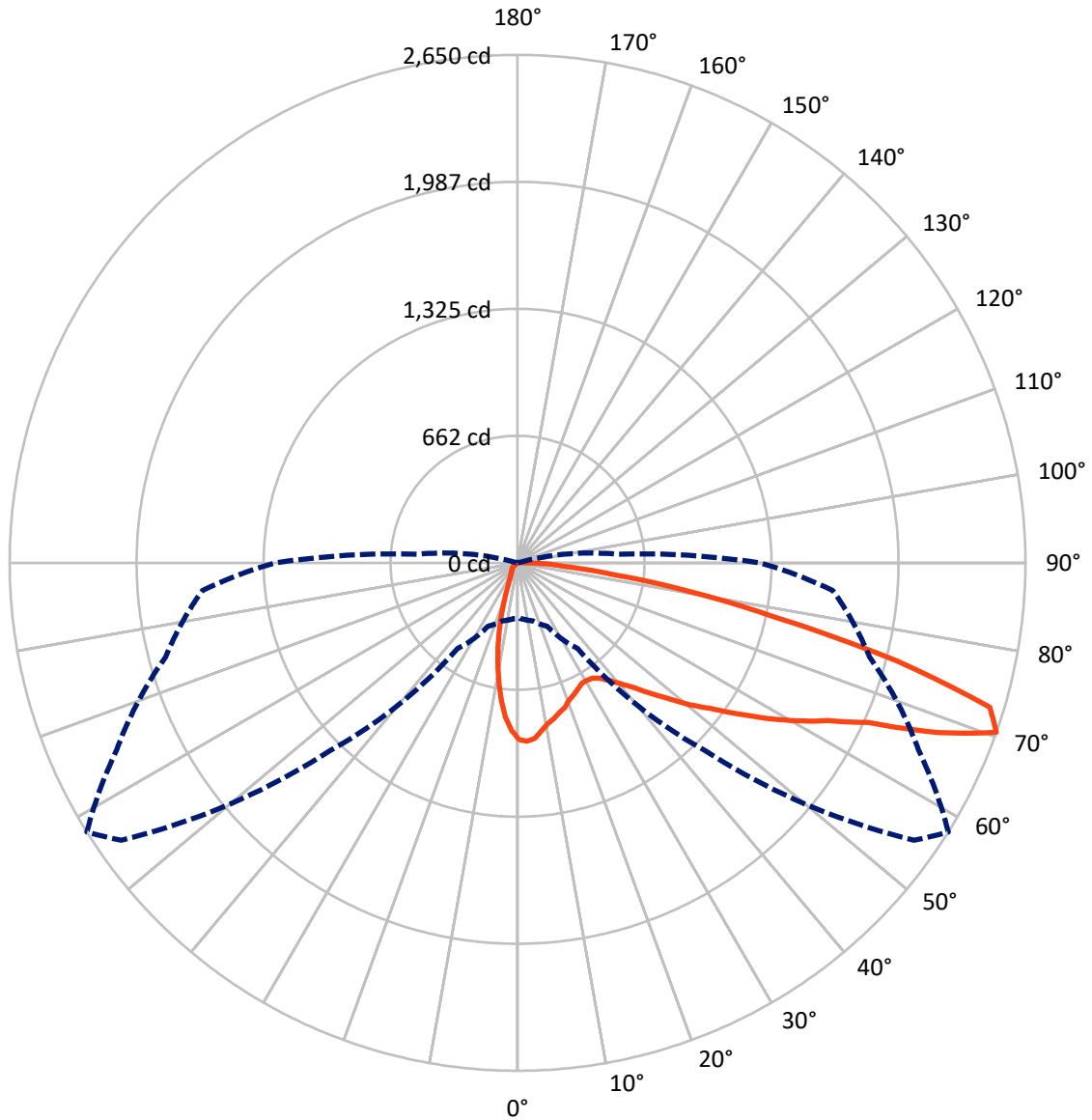
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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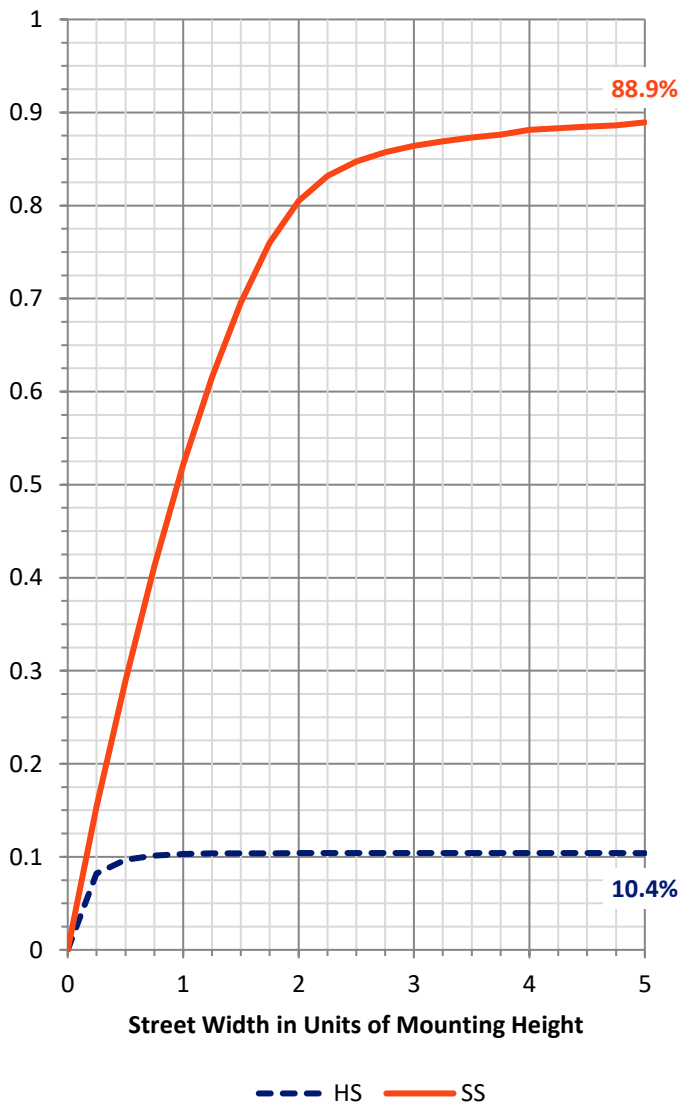
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	310.9	0.0	310.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2657.9	0.0	2657.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2968.7	0.0	2968.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	2.5
10°-20°	156.5	5.3
20°-30°	209.6	7.1
30°-40°	283.4	9.5
40°-50°	406.7	13.7
50°-60°	599.3	20.2
60°-70°	731.0	24.6
70°-80°	446.4	15.0
80°-90°	60.6	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°	2968.7	100.0
0°-180°	2968.7	100.0

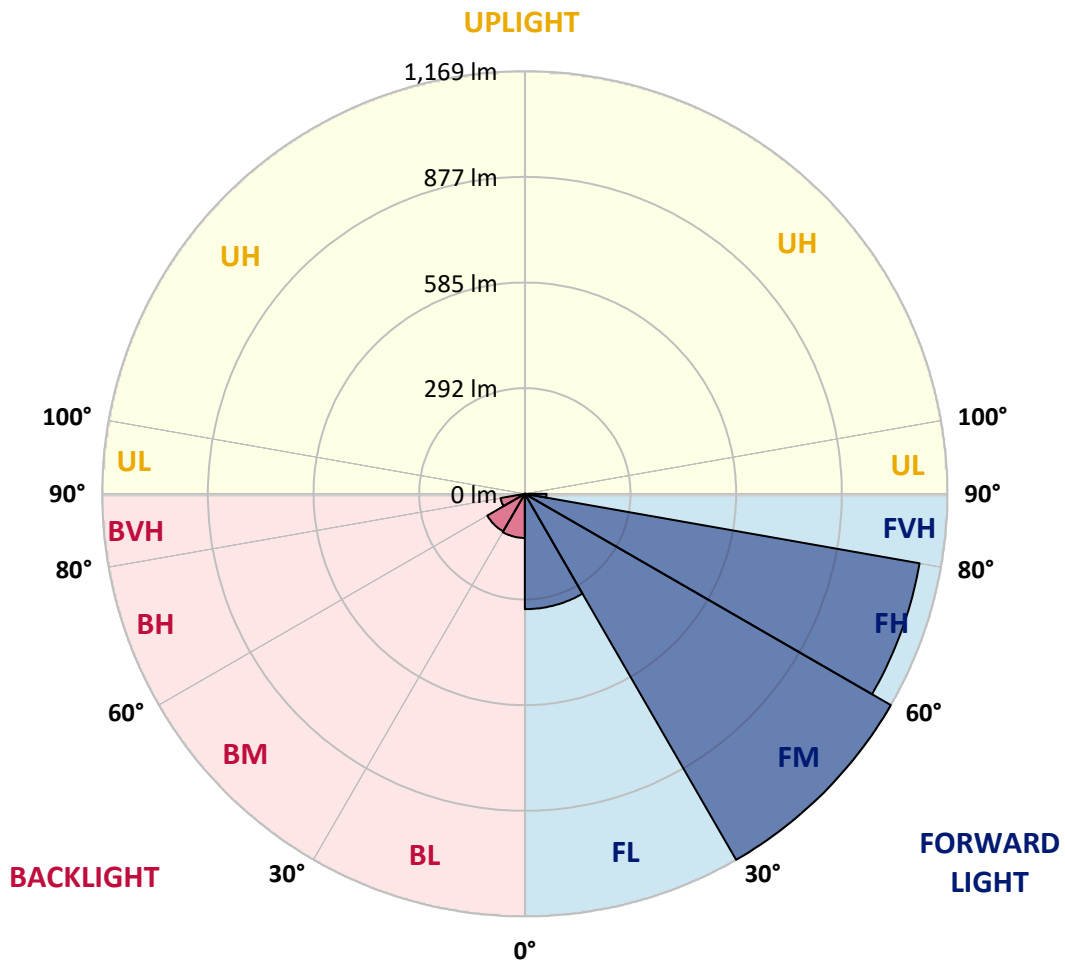


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.2	10.8			
FM (30°-60°)	1169.4	39.4			
FH (60°-80°)	1109.3	37.4			G1/1800
FVH (80°-90°)	60.1	2.0			G1/100
BL (0°-30°)	122.2	4.1	B1/500		
BM (30°-60°)	120.0	4.0	B0/220		
BH (60°-80°)	68.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6
2.5°	938.3	941.8	933.4	943.2	934.1	938.3	933.4	932.0	932.7	933.4	927.8
5°	894.4	902.8	906.3	900.7	913.9	911.8	920.2	920.9	917.4	913.9	914.6
7.5°	836.7	845.0	848.5	852.0	865.2	882.6	893.7	886.8	892.3	904.9	886.1
10°	794.9	792.8	792.1	799.1	824.1	838.8	857.5	855.5	869.4	881.2	865.9
12.5°	743.4	739.2	751.7	757.3	779.6	805.3	820.0	835.3	849.2	861.7	844.3
15°	705.1	708.6	713.5	725.3	741.3	775.4	797.0	811.6	836.7	842.9	836.0
17.5°	674.5	677.3	684.2	690.5	710.7	743.4	777.5	794.9	821.3	838.1	816.5
20°	675.2	666.8	666.8	673.1	684.2	723.2	759.4	765.0	801.2	829.7	815.1
22.5°	675.9	673.1	666.8	666.1	671.0	698.8	735.7	748.3	787.2	820.7	803.3
25°	685.6	675.2	675.9	666.1	668.2	682.1	711.4	730.2	774.7	825.5	797.0
27.5°	694.0	698.8	689.1	684.9	673.1	672.4	696.8	712.8	768.4	836.7	801.2
30°	712.8	716.2	716.2	713.5	702.3	686.3	691.9	712.1	755.9	834.6	794.2
32.5°	744.1	737.8	746.2	742.0	727.4	702.3	707.2	717.6	763.6	861.0	805.3
35°	754.5	759.4	770.5	761.5	756.6	742.0	732.3	739.9	774.7	887.5	822.0
37.5°	786.5	779.6	787.2	807.4	812.3	785.9	767.1	778.2	816.5	918.8	837.4
40°	789.3	794.9	808.8	848.5	853.4	842.2	826.9	829.7	858.2	959.2	875.6
42.5°	803.3	809.5	838.1	871.5	897.9	900.0	888.9	888.9	913.2	1023.9	918.1
45°	830.4	820.0	856.8	913.2	951.5	959.2	973.8	970.3	989.8	1092.1	997.5
47.5°	840.8	844.3	884.7	952.9	996.8	1032.3	1056.6	1057.3	1067.1	1179.1	1100.5
50°	874.9	874.3	923.0	986.3	1051.0	1115.8	1163.1	1163.1	1162.4	1264.0	1188.9
52.5°	920.2	918.8	956.4	1031.6	1115.8	1197.2	1259.9	1262.0	1278.0	1368.5	1290.5
55°	994.0	987.7	1023.9	1079.6	1180.5	1279.4	1387.9	1388.6	1376.1	1442.9	1363.6
57.5°	1055.9	1055.2	1085.2	1138.8	1252.9	1385.2	1511.1	1529.9	1490.3	1519.5	1422.0
60°	1039.9	1049.0	1110.9	1190.3	1329.5	1517.4	1644.1	1673.3	1610.0	1571.7	1465.9
62.5°	940.4	961.3	1028.8	1155.5	1394.2	1709.5	1827.2	1813.9	1672.6	1616.2	1519.5
65°	676.6	697.5	781.0	971.0	1319.0	1845.3	2068.0	2008.1	1784.0	1682.4	1591.2
67.5°	398.1	406.5	458.7	619.5	986.3	1771.5	2360.3	2365.2	2003.3	1784.0	1715.1
70°	287.5	293.7	313.9	365.4	546.4	1388.6	2523.2	2649.9	2307.4	1900.9	1649.7
72.5°	220.7	220.7	254.8	304.2	348.0	831.8	2322.1	2576.1	2373.6	1788.9	1329.5
75°	158.7	162.9	199.8	261.7	320.9	417.6	1710.9	2044.3	2011.6	1449.9	928.5
77.5°	91.2	93.3	140.6	219.3	301.4	286.8	1057.3	1385.9	1424.8	907.7	402.3
80°	46.6	48.0	78.7	173.3	272.9	249.9	630.6	912.5	774.0	263.8	93.3
82.5°	23.0	23.0	35.5	110.7	231.8	221.3	371.0	503.9	274.2	60.6	39.0
85°	7.7	8.4	16.0	62.6	167.8	133.6	226.9	239.4	91.9	23.0	21.6
87.5°	2.1	2.8	4.2	23.0	73.1	87.7	135.0	153.1	37.6	9.0	10.4
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°	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6	921.6
2.5°	907.0	902.1	896.5	882.6	871.5	856.8	847.1	839.4	824.8	827.6	821.3
5°	897.9	888.9	856.8	826.2	798.4	755.9	726.7	707.9	692.6	677.3	688.4
7.5°	881.9	860.3	810.2	753.1	694.0	638.3	582.6	549.2	524.8	502.6	501.9
10°	854.8	820.0	741.3	666.8	575.6	502.6	431.6	375.9	339.7	313.2	312.5
12.5°	824.1	787.9	689.1	568.0	462.9	359.9	274.9	215.8	181.7	160.8	158.0
15°	804.6	751.7	623.7	480.3	350.1	234.6	152.4	115.5	102.3	97.4	97.4
17.5°	779.6	719.0	558.9	389.1	242.9	135.7	98.8	89.1	88.4	87.0	85.6
20°	769.1	694.0	501.2	310.4	153.8	96.1	84.9	82.8	82.8	81.4	80.0
22.5°	741.3	657.8	439.9	227.6	102.3	84.2	80.0	77.3	75.9	74.5	75.9
25°	728.8	632.0	382.1	157.3	83.5	75.2	73.1	70.3	68.2	67.5	67.5
27.5°	720.4	606.3	325.8	109.3	73.8	68.9	64.7	62.6	59.9	57.1	57.1
30°	714.2	586.1	271.5	80.7	66.1	61.3	57.8	52.9	49.4	46.6	46.6
32.5°	705.8	562.4	217.2	68.9	59.9	55.0	48.7	44.5	39.7	37.6	37.6
35°	708.6	546.4	170.5	61.3	53.6	47.3	41.8	36.2	31.3	29.2	28.5
37.5°	714.2	534.6	129.5	55.0	48.0	41.1	34.8	28.5	25.8	23.0	23.0
40°	737.8	531.1	95.4	50.8	43.9	36.2	29.2	23.7	20.9	18.8	18.1
42.5°	777.5	536.0	73.8	45.9	39.7	30.6	24.4	19.5	16.7	14.6	13.9
45°	828.3	554.8	60.6	43.2	34.8	25.8	19.5	16.0	12.5	11.1	11.1
47.5°	902.1	584.0	52.9	39.7	30.6	21.6	16.7	12.5	9.7	8.4	8.4
50°	985.6	617.4	46.6	35.5	26.5	18.1	13.2	9.7	7.0	6.3	6.3
52.5°	1069.1	659.9	43.2	32.7	23.0	14.6	10.4	7.0	4.9	4.2	4.2
55°	1156.9	697.5	39.0	30.6	18.8	11.8	7.7	4.2	2.8	2.1	2.1
57.5°	1218.1	712.1	34.1	26.5	14.6	9.0	5.6	2.8	1.4	0.7	0.7
60°	1262.0	714.2	29.2	21.6	11.1	7.0	3.5	1.4	0.7	0.0	0.0
62.5°	1298.8	718.3	25.1	16.7	8.4	4.9	2.1	0.7	0.0	0.0	0.0
65°	1371.9	714.9	20.2	13.2	5.6	2.8	1.4	0.0	0.0	0.0	0.0
67.5°	1429.7	680.0	16.0	9.0	3.5	1.4	0.7	0.0	0.0	0.0	0.0
70°	1264.7	518.6	12.5	6.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	993.3	345.9	8.4	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0
75°	651.5	171.9	6.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	253.4	45.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.3	15.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	5.6	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	1.4	0.7	0.7	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)