

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: P676785

Luminaire Tested: **CCW-SA-1C-850-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676785  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

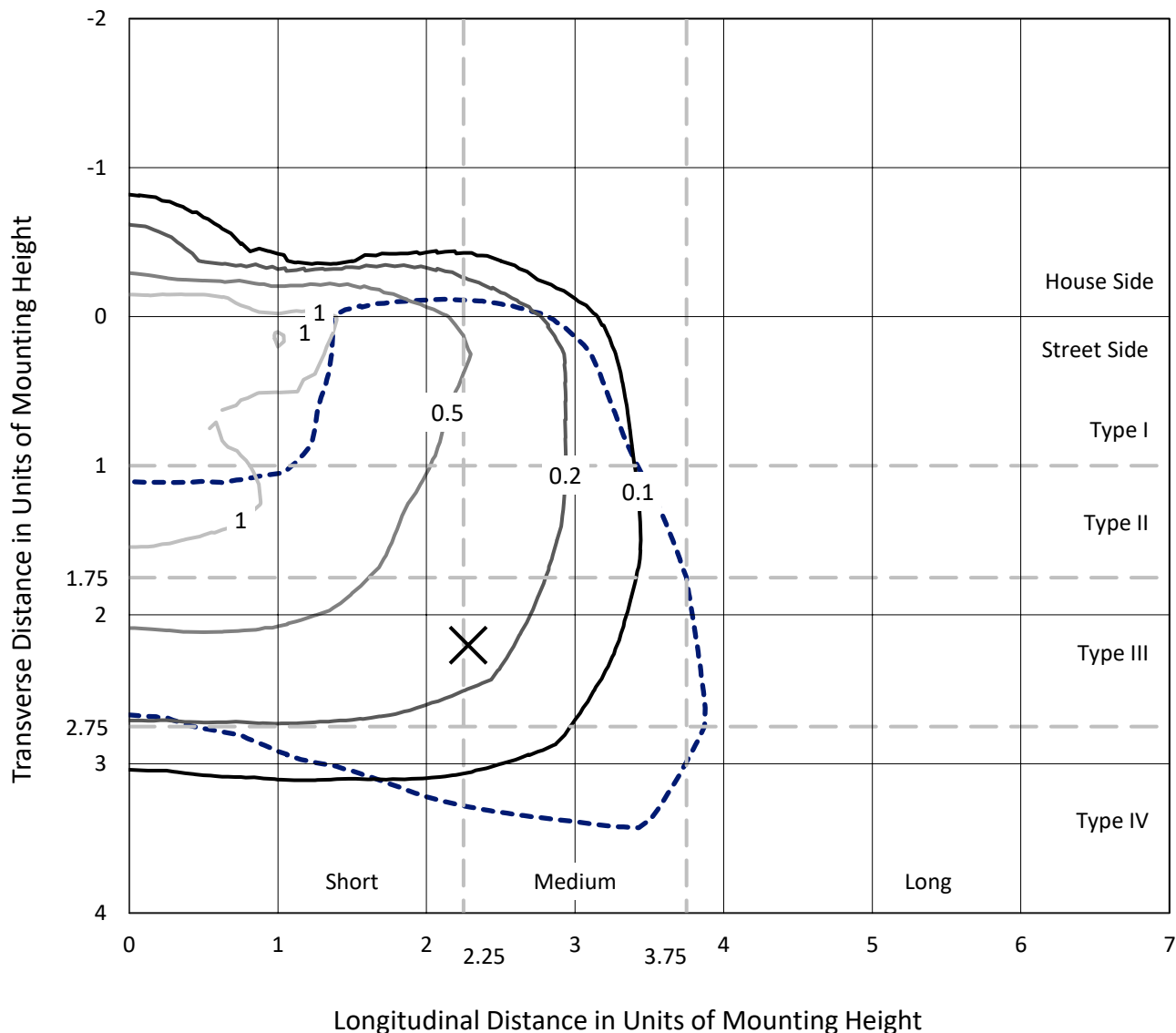
Lumens per Lamp: N/A  
Luminaire Lumens: 2846.4 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

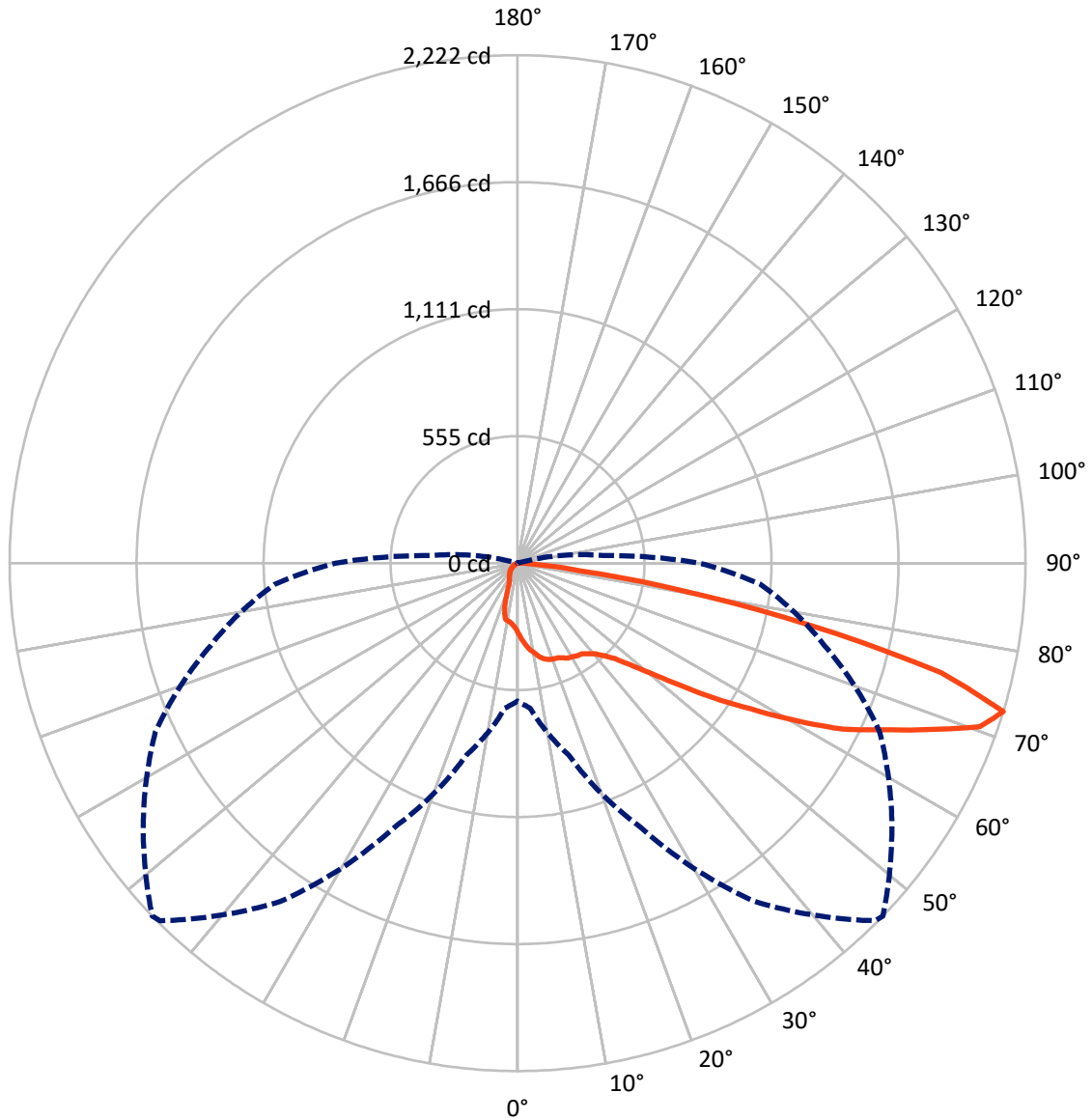
× Max cd  
 - - - 1/2 Max cd



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

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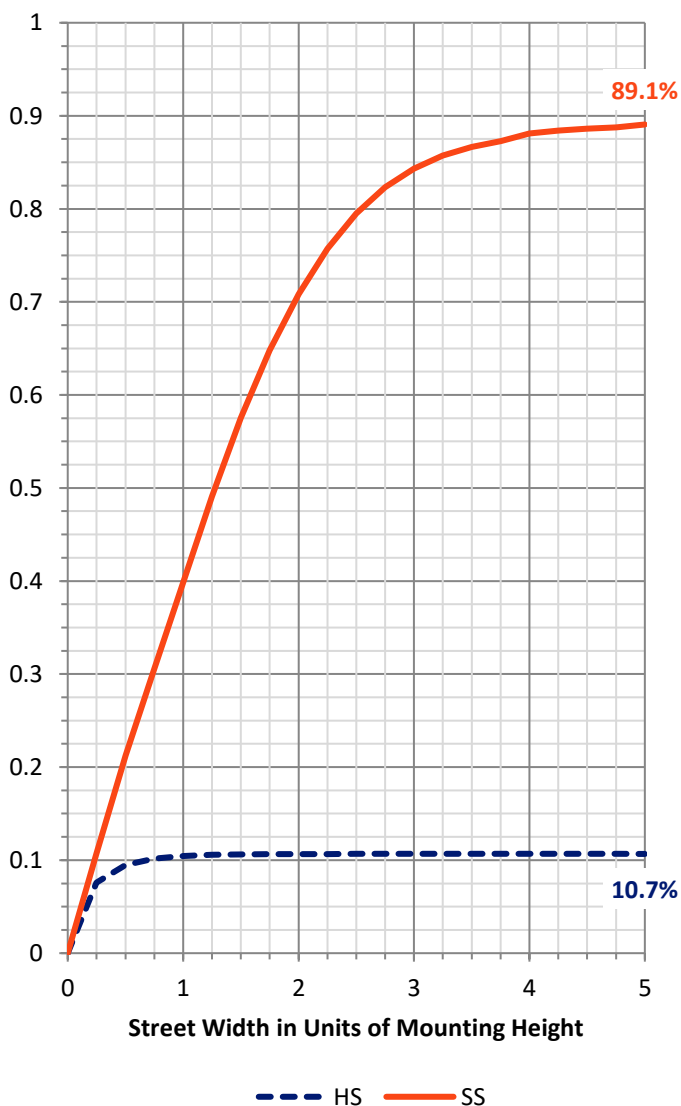
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	306.4	0.0	306.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2540.0	0.0	2540.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2846.4	0.0	2846.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	91.9	3.2
20°-30°	143.9	5.1
30°-40°	201.5	7.1
40°-50°	332.3	11.7
50°-60°	597.3	21.0
60°-70°	865.8	30.4
70°-80°	540.3	19.0
80°-90°	42.8	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°	2846.4	100.0
0°-180°	2846.4	100.0

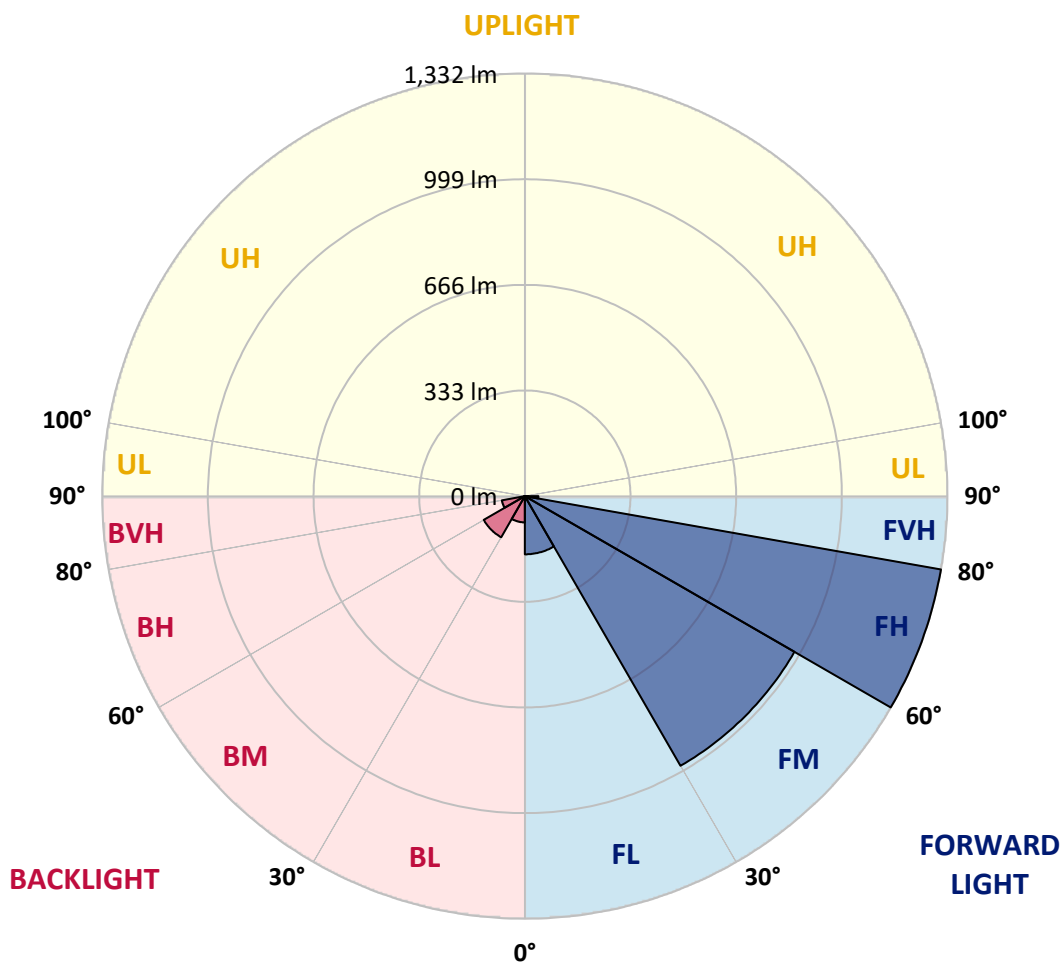


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.5	6.4			
FM (30°-60°)	981.5	34.5			
FH (60°-80°)	1332.4	46.8			G1/1800
FVH (80°-90°)	42.6	1.5			G1/100
BL (0°-30°)	82.8	2.9	B0/110		
BM (30°-60°)	149.7	5.3	B0/220		
BH (60°-80°)	73.7	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2
2.5°	340.5	339.1	341.2	340.5	331.8	333.3	332.5	326.7	316.6	310.7	307.1
5°	379.7	383.4	380.4	373.9	368.8	358.7	357.2	347.8	331.8	321.6	310.7
7.5°	420.4	420.4	414.6	404.4	393.5	382.6	381.2	365.2	351.4	334.0	318.7
10°	450.9	447.2	442.9	432.0	419.7	405.1	397.9	386.3	371.0	350.0	330.4
12.5°	477.7	471.9	464.7	448.7	434.2	418.2	419.7	400.8	390.6	371.7	342.7
15°	493.0	487.9	481.4	466.8	444.3	437.1	434.2	422.6	404.4	385.5	357.9
17.5°	496.6	493.0	484.3	465.4	453.1	444.3	443.6	429.8	421.8	405.9	375.4
20°	489.4	482.8	476.3	463.9	452.3	449.4	447.2	447.2	437.1	416.0	386.3
22.5°	477.0	469.8	466.1	458.9	449.4	448.7	450.1	448.7	440.7	426.9	397.9
25°	467.6	463.9	458.1	456.0	450.1	461.0	458.9	456.7	454.5	438.5	416.0
27.5°	470.5	469.8	465.4	456.7	452.3	463.9	470.5	471.2	470.5	454.5	432.7
30°	471.9	468.3	463.9	461.8	463.2	474.8	474.8	490.8	484.3	468.3	449.4
32.5°	488.6	486.5	471.9	466.8	467.6	481.4	482.1	498.1	495.9	485.0	463.9
35°	524.2	509.7	488.6	474.1	474.1	492.3	486.5	509.7	515.5	498.1	474.1
37.5°	577.2	566.3	528.6	495.9	483.5	496.6	502.4	515.5	532.9	517.7	494.4
40°	682.5	680.3	626.6	556.2	507.5	519.1	521.3	541.6	553.2	532.2	525.7
42.5°	836.4	825.5	775.4	664.3	551.1	546.0	554.0	567.0	594.6	577.2	561.2
45°	986.7	981.6	931.5	807.4	630.2	599.7	595.4	618.6	659.2	640.4	628.0
47.5°	1095.6	1085.4	1057.1	952.6	746.4	662.9	665.8	689.0	740.6	726.0	729.7
50°	1179.1	1174.0	1144.2	1086.9	893.0	762.3	756.5	779.8	849.5	858.9	869.1
52.5°	1270.6	1280.0	1240.1	1191.4	1066.6	895.9	882.9	890.9	980.9	1002.7	1031.0
55°	1358.4	1373.7	1333.7	1327.2	1248.1	1044.1	1041.9	1023.0	1139.2	1142.1	1157.3
57.5°	1415.8	1410.7	1407.8	1443.4	1429.6	1213.9	1203.1	1184.2	1289.5	1270.6	1316.3
60°	1420.1	1434.7	1483.3	1571.2	1595.8	1413.6	1397.6	1346.1	1419.4	1374.4	1461.5
62.5°	1452.8	1464.4	1554.5	1675.7	1707.7	1589.3	1600.2	1469.5	1530.5	1494.9	1622.7
65°	1370.0	1406.4	1587.1	1757.0	1854.3	1767.2	1756.3	1628.5	1644.5	1611.1	1781.7
67.5°	1295.3	1309.1	1497.8	1781.7	1970.5	1945.8	1941.4	1769.4	1762.1	1700.4	1826.7
70°	1052.8	1069.5	1256.1	1655.4	2009.7	2154.2	2144.0	1966.9	1842.0	1651.8	1595.8
72.5°	603.3	636.7	870.5	1274.9	1805.7	2212.3	2221.7	1998.8	1747.6	1388.9	1065.8
75°	197.5	206.9	361.6	722.4	1350.4	1929.8	1913.1	1717.8	1410.0	917.0	481.4
77.5°	66.8	68.2	106.7	261.4	748.6	1304.0	1313.4	1227.7	866.2	381.2	132.9
80°	34.1	36.3	52.3	98.0	307.8	710.1	725.3	699.9	363.0	112.5	31.9
82.5°	16.0	16.7	30.5	54.5	140.9	278.8	278.8	306.4	128.5	63.2	13.1
85°	5.8	5.8	16.0	31.2	59.5	92.9	93.7	94.4	67.5	47.2	5.8
87.5°	2.2	2.2	8.0	13.1	21.8	28.3	28.3	22.5	34.1	31.2	2.2
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°	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2	304.2
2.5°	305.7	301.3	297.7	292.6	286.1	282.4	283.2	278.8	278.8	276.6	275.9
5°	305.7	301.3	291.9	283.2	277.3	270.1	266.5	263.6	263.6	262.1	262.8
7.5°	307.8	301.3	288.2	276.6	267.2	259.9	254.1	253.4	251.9	248.3	251.2
10°	320.9	311.5	289.7	273.7	262.8	254.8	244.7	241.8	237.4	230.9	231.6
12.5°	331.8	319.5	299.9	278.1	264.3	251.2	228.0	202.6	191.7	180.1	180.8
15°	347.8	330.4	303.5	283.9	264.3	222.2	180.1	147.4	130.0	121.2	121.2
17.5°	356.5	342.0	313.7	287.5	243.2	180.8	127.8	99.5	96.6	98.0	98.0
20°	374.6	355.0	325.3	290.4	208.4	128.5	93.7	90.8	92.2	95.1	94.4
22.5°	386.3	366.7	334.0	277.3	161.2	92.2	87.9	86.4	87.9	91.5	91.5
25°	395.7	383.4	347.8	245.4	114.0	83.5	82.0	83.5	84.9	86.4	88.6
27.5°	418.9	397.9	357.2	204.0	82.0	77.7	79.1	79.9	79.9	82.0	82.8
30°	434.2	417.5	364.5	157.6	72.6	71.9	73.3	74.1	74.8	77.0	77.7
32.5°	448.7	442.9	355.0	106.7	68.2	66.8	66.1	66.8	69.7	71.9	71.2
35°	469.8	466.1	341.2	74.1	63.9	61.0	59.5	60.3	62.4	64.6	63.9
37.5°	495.2	498.8	307.8	64.6	59.5	55.9	53.0	53.0	53.7	55.9	56.6
40°	524.9	534.4	268.6	60.3	56.6	52.3	49.4	45.7	45.0	44.3	45.0
42.5°	579.4	590.3	224.3	57.4	52.3	47.2	42.8	38.5	34.9	32.7	32.7
45°	655.6	646.9	166.3	54.5	50.1	42.8	36.3	31.2	26.1	24.0	24.0
47.5°	760.9	731.1	114.0	51.5	46.5	37.8	30.5	24.0	19.6	17.4	17.4
50°	906.8	808.8	74.1	48.6	44.3	32.7	24.7	17.4	14.5	13.8	14.5
52.5°	1044.8	888.0	58.8	45.0	39.9	28.3	18.9	14.5	13.1	12.3	12.3
55°	1171.8	927.9	52.3	41.4	36.3	23.2	16.0	12.3	11.6	10.9	10.9
57.5°	1279.3	941.7	45.0	36.3	29.0	18.2	13.1	10.9	9.4	8.7	8.7
60°	1372.2	945.3	34.9	29.0	21.1	13.8	10.9	9.4	8.0	6.5	6.5
62.5°	1446.3	919.9	24.7	20.3	14.5	10.9	9.4	6.5	4.4	2.9	2.2
65°	1505.1	869.1	16.7	13.8	9.4	8.0	5.8	2.9	0.7	0.0	0.0
67.5°	1436.1	753.6	13.1	10.2	6.5	5.1	2.9	0.7	0.0	0.0	0.0
70°	1171.1	584.5	9.4	6.5	4.4	1.5	0.7	0.0	0.0	0.0	0.0
72.5°	797.2	376.8	7.3	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
75°	357.9	135.0	5.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	87.1	31.9	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.2	8.0	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	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)