

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: P676774

Luminaire Tested: **CCW-SA-1C-840-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676774  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-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) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

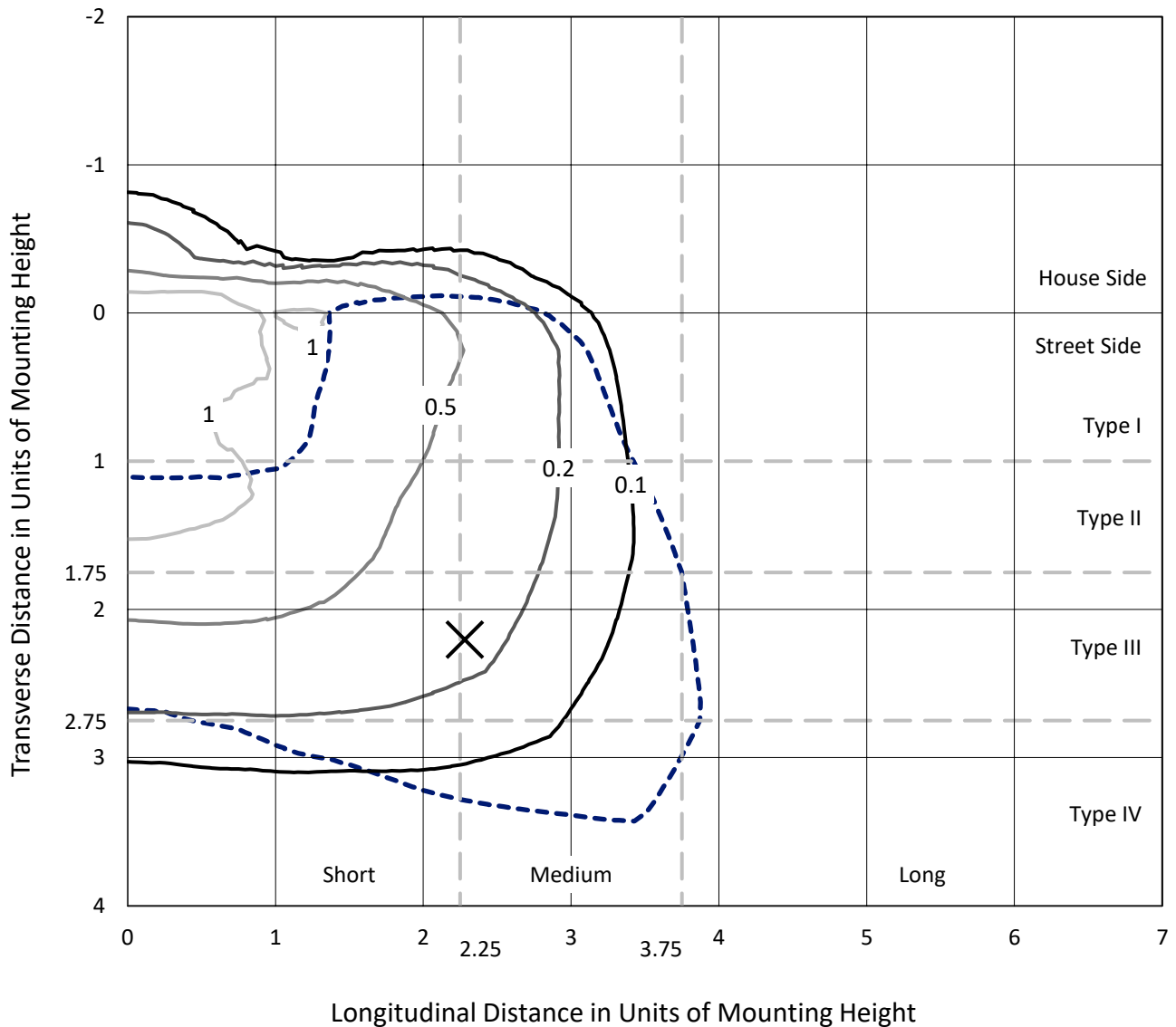
Lumens per Lamp: N/A  
Luminaire Lumens: 2781.2 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (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

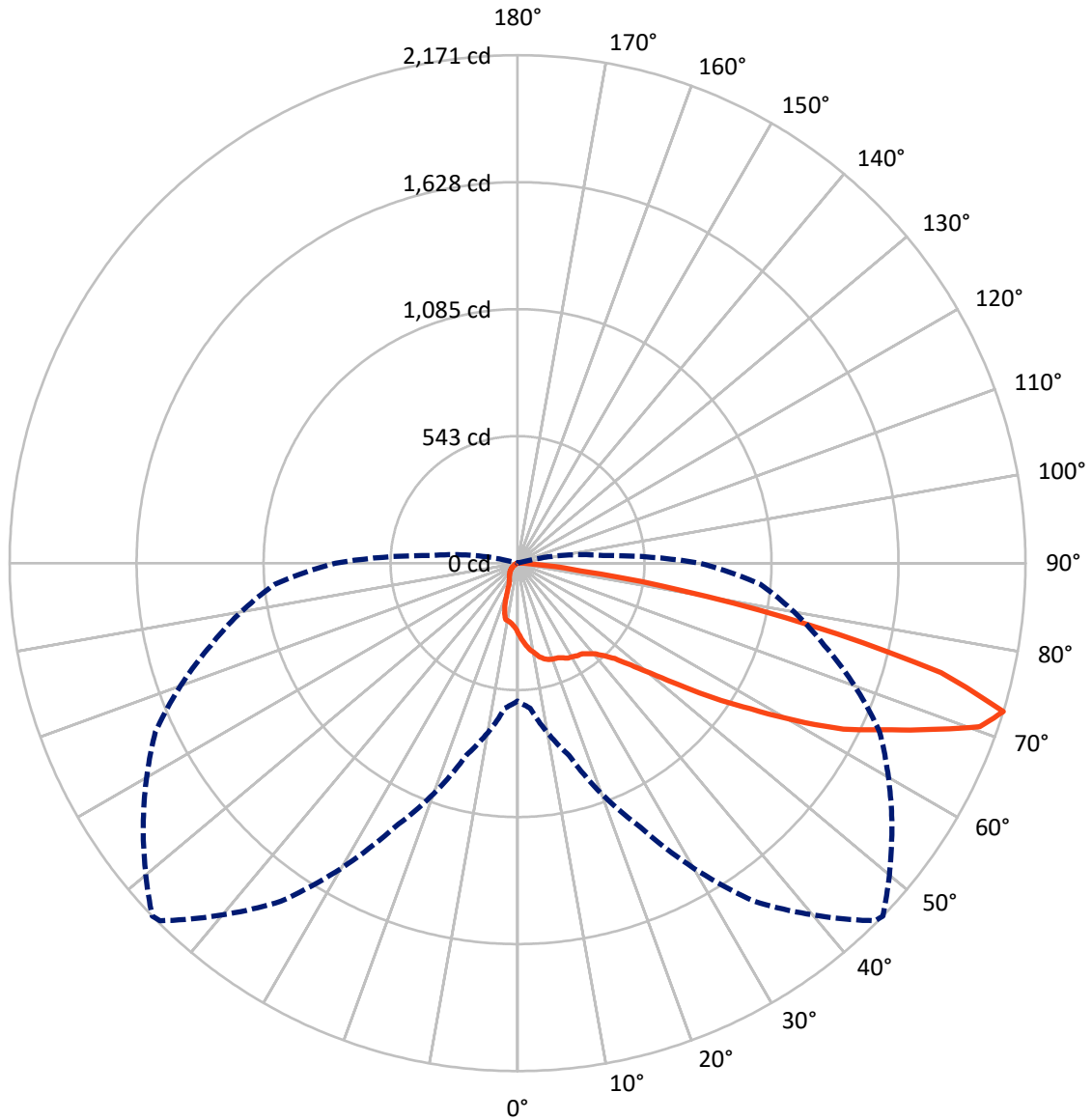
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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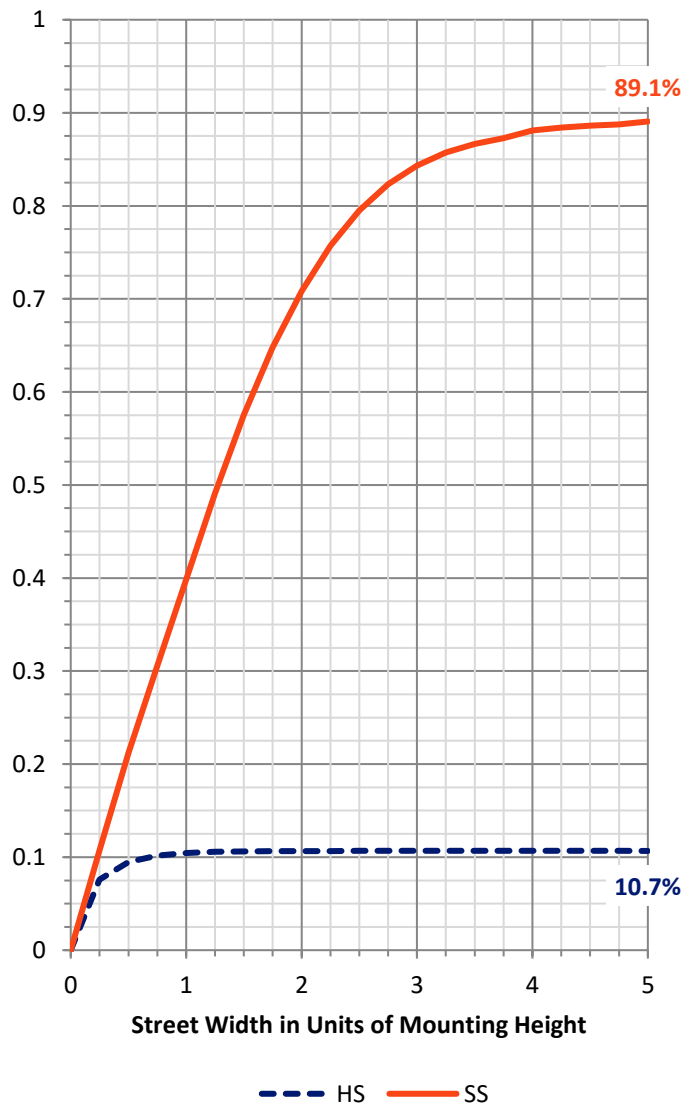
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	299.4	0.0	299.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2481.8	0.0	2481.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2781.2	0.0	2781.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	1.1
10°-20°	89.8	3.2
20°-30°	140.6	5.1
30°-40°	196.9	7.1
40°-50°	324.7	11.7
50°-60°	583.6	21.0
60°-70°	845.9	30.4
70°-80°	527.9	19.0
80°-90°	41.8	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°	2781.2	100.0
0°-180°	2781.2	100.0

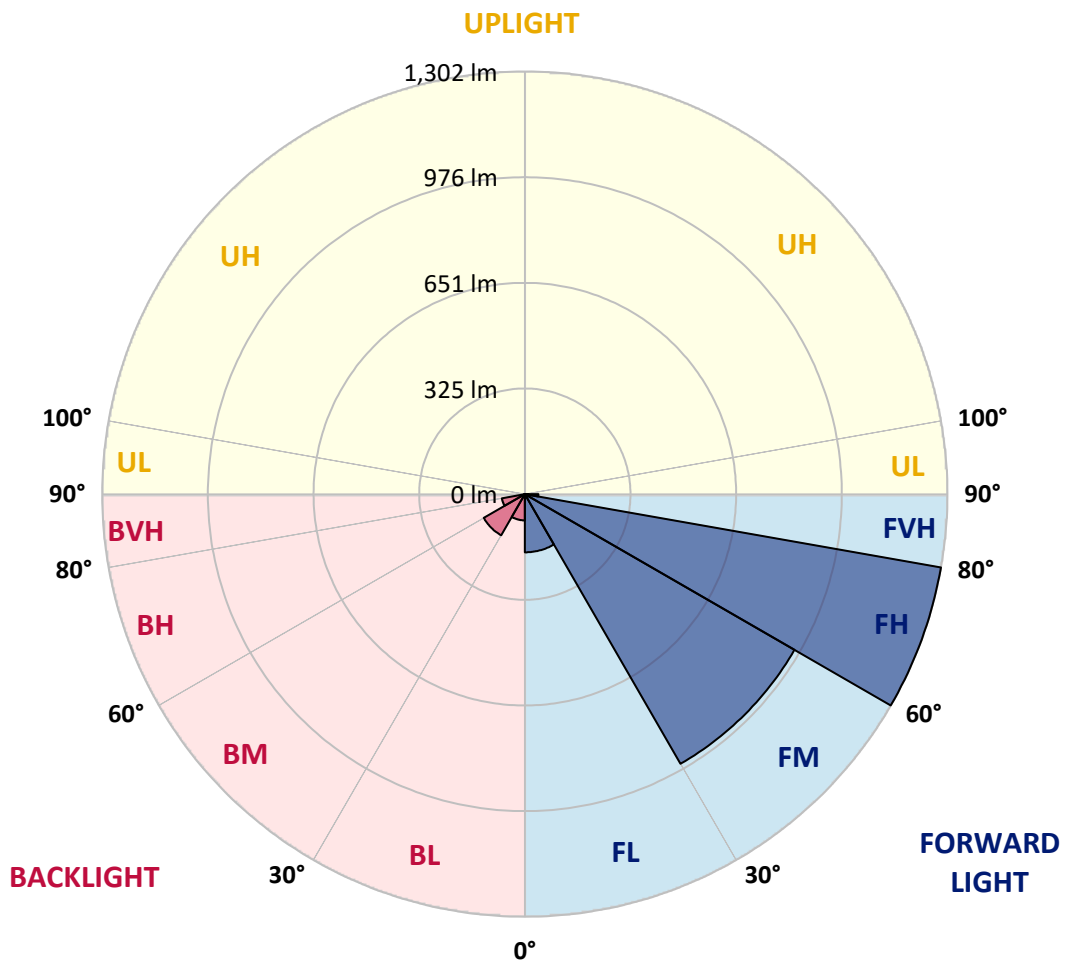


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.3	6.4			
FM (30°-60°)	959.0	34.5			
FH (60°-80°)	1301.9	46.8			G1/1800
FVH (80°-90°)	41.6	1.5			G1/100
BL (0°-30°)	80.9	2.9	B0/110		
BM (30°-60°)	146.3	5.3	B0/220		
BH (60°-80°)	72.0	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°	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2
2.5°	332.7	331.3	333.4	332.7	324.2	325.6	324.9	319.2	309.3	303.6	300.1
5°	371.0	374.6	371.7	365.3	360.4	350.4	349.0	339.8	324.2	314.3	303.6
7.5°	410.7	410.7	405.1	395.1	384.5	373.9	372.4	356.8	343.4	326.3	311.4
10°	440.5	437.0	432.7	422.1	410.0	395.8	388.8	377.4	362.5	341.9	322.8
12.5°	466.8	461.1	454.0	438.4	424.2	408.6	410.0	391.6	381.7	363.2	334.8
15°	481.7	476.7	470.3	456.1	434.2	427.1	424.2	412.9	395.1	376.7	349.7
17.5°	485.2	481.7	473.2	454.7	442.7	434.2	433.4	420.0	412.2	396.6	366.8
20°	478.1	471.8	465.4	453.3	442.0	439.1	437.0	437.0	427.1	406.5	377.4
22.5°	466.1	459.0	455.4	448.3	439.1	438.4	439.8	438.4	430.6	417.1	388.8
25°	456.9	453.3	447.6	445.5	439.8	450.5	448.3	446.2	444.1	428.5	406.5
27.5°	459.7	459.0	454.7	446.2	442.0	453.3	459.7	460.4	459.7	444.1	422.8
30°	461.1	457.6	453.3	451.2	452.6	464.0	464.0	479.6	473.2	457.6	439.1
32.5°	477.4	475.3	461.1	456.1	456.9	470.3	471.0	486.7	484.5	473.9	453.3
35°	512.2	498.0	477.4	463.2	463.2	481.0	475.3	498.0	503.7	486.7	463.2
37.5°	564.0	553.3	516.4	484.5	472.5	485.2	490.9	503.7	520.7	505.8	483.1
40°	666.8	664.7	612.2	543.4	495.9	507.2	509.4	529.2	540.6	520.0	513.6
42.5°	817.2	806.6	757.6	649.1	538.4	533.5	541.3	554.0	581.0	564.0	548.4
45°	964.1	959.1	910.2	788.9	615.8	586.0	581.7	604.4	644.1	625.7	613.6
47.5°	1070.5	1060.6	1032.9	930.7	729.3	647.7	650.5	673.2	723.6	709.4	713.0
50°	1152.1	1147.1	1118.0	1062.0	872.6	744.9	739.2	761.9	830.0	839.2	849.2
52.5°	1241.5	1250.7	1211.7	1164.1	1042.1	875.4	862.6	870.4	958.4	979.7	1007.4
55°	1327.3	1342.2	1303.2	1296.8	1219.5	1020.1	1018.0	999.6	1113.1	1115.9	1130.8
57.5°	1383.3	1378.4	1375.5	1410.3	1396.8	1186.1	1175.5	1157.0	1259.9	1241.5	1286.2
60°	1387.6	1401.8	1449.3	1535.2	1559.3	1381.2	1365.6	1315.2	1386.9	1342.9	1428.0
62.5°	1419.5	1430.9	1518.8	1637.3	1668.5	1552.9	1563.5	1435.8	1495.4	1460.7	1585.5
65°	1338.6	1374.1	1550.8	1716.8	1811.8	1726.7	1716.1	1591.2	1606.8	1574.2	1740.9
67.5°	1265.6	1279.1	1463.5	1740.9	1925.3	1901.2	1896.9	1728.8	1721.7	1661.4	1784.9
70°	1028.6	1045.0	1227.3	1617.4	1963.6	2104.8	2094.9	1921.8	1799.8	1613.9	1559.3
72.5°	589.5	622.1	850.6	1245.7	1764.3	2161.6	2170.8	1953.0	1707.5	1357.1	1041.4
75°	193.0	202.2	353.3	705.9	1319.5	1885.6	1869.3	1678.5	1377.7	896.0	470.3
77.5°	65.3	66.7	104.3	255.4	731.4	1274.1	1283.3	1199.6	846.3	372.4	129.8
80°	33.3	35.5	51.1	95.8	300.8	693.8	708.7	683.9	354.7	110.0	31.2
82.5°	15.6	16.3	29.8	53.2	137.6	272.4	272.4	299.4	125.6	61.7	12.8
85°	5.7	5.7	15.6	30.5	58.2	90.8	91.5	92.2	66.0	46.1	5.7
87.5°	2.1	2.1	7.8	12.8	21.3	27.7	27.7	22.0	33.3	30.5	2.1
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°	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2	297.2
2.5°	298.7	294.4	290.9	285.9	279.5	276.0	276.7	272.4	272.4	270.3	269.6
5°	298.7	294.4	285.2	276.7	271.0	263.9	260.4	257.5	257.5	256.1	256.8
7.5°	300.8	294.4	281.6	270.3	261.1	254.0	248.3	247.6	246.2	242.6	245.5
10°	313.6	304.3	283.1	267.4	256.8	249.0	239.1	236.2	232.0	225.6	226.3
12.5°	324.2	312.1	293.0	271.7	258.2	245.5	222.8	197.9	187.3	175.9	176.6
15°	339.8	322.8	296.5	277.4	258.2	217.1	175.9	144.0	127.0	118.5	118.5
17.5°	348.3	334.1	306.5	280.9	237.7	176.6	124.9	97.2	94.4	95.8	95.8
20°	366.1	346.9	317.8	283.8	203.6	125.6	91.5	88.7	90.1	92.9	92.2
22.5°	377.4	358.2	326.3	271.0	157.5	90.1	85.8	84.4	85.8	89.4	89.4
25°	386.6	374.6	339.8	239.8	111.4	81.6	80.2	81.6	83.0	84.4	86.5
27.5°	409.3	388.8	349.0	199.3	80.2	75.9	77.3	78.0	78.0	80.2	80.9
30°	424.2	407.9	356.1	153.9	70.9	70.2	71.6	72.4	73.1	75.2	75.9
32.5°	438.4	432.7	346.9	104.3	66.7	65.3	64.6	65.3	68.1	70.2	69.5
35°	459.0	455.4	333.4	72.4	62.4	59.6	58.2	58.9	61.0	63.1	62.4
37.5°	483.8	487.4	300.8	63.1	58.2	54.6	51.8	51.8	52.5	54.6	55.3
40°	512.9	522.1	262.5	58.9	55.3	51.1	48.2	44.7	44.0	43.3	44.0
42.5°	566.1	576.7	219.2	56.0	51.1	46.1	41.9	37.6	34.1	31.9	31.9
45°	640.6	632.1	162.5	53.2	48.9	41.9	35.5	30.5	25.5	23.4	23.4
47.5°	743.5	714.4	111.4	50.4	45.4	36.9	29.8	23.4	19.2	17.0	17.0
50°	886.0	790.3	72.4	47.5	43.3	31.9	24.1	17.0	14.2	13.5	14.2
52.5°	1020.8	867.6	57.5	44.0	39.0	27.7	18.4	14.2	12.8	12.1	12.1
55°	1145.0	906.6	51.1	40.4	35.5	22.7	15.6	12.1	11.4	10.6	10.6
57.5°	1250.0	920.1	44.0	35.5	28.4	17.7	12.8	10.6	9.2	8.5	8.5
60°	1340.8	923.6	34.1	28.4	20.6	13.5	10.6	9.2	7.8	6.4	6.4
62.5°	1413.1	898.8	24.1	19.9	14.2	10.6	9.2	6.4	4.3	2.8	2.1
65°	1470.6	849.2	16.3	13.5	9.2	7.8	5.7	2.8	0.7	0.0	0.0
67.5°	1403.2	736.4	12.8	9.9	6.4	5.0	2.8	0.7	0.0	0.0	0.0
70°	1144.3	571.1	9.2	6.4	4.3	1.4	0.7	0.0	0.0	0.0	0.0
72.5°	778.9	368.2	7.1	4.3	2.1	0.7	0.0	0.0	0.0	0.0	0.0
75°	349.7	131.9	5.0	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	85.1	31.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.7	7.8	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)