

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: P676714

Luminaire Tested: **CCW-SA-2C-740-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676714  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-740-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) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

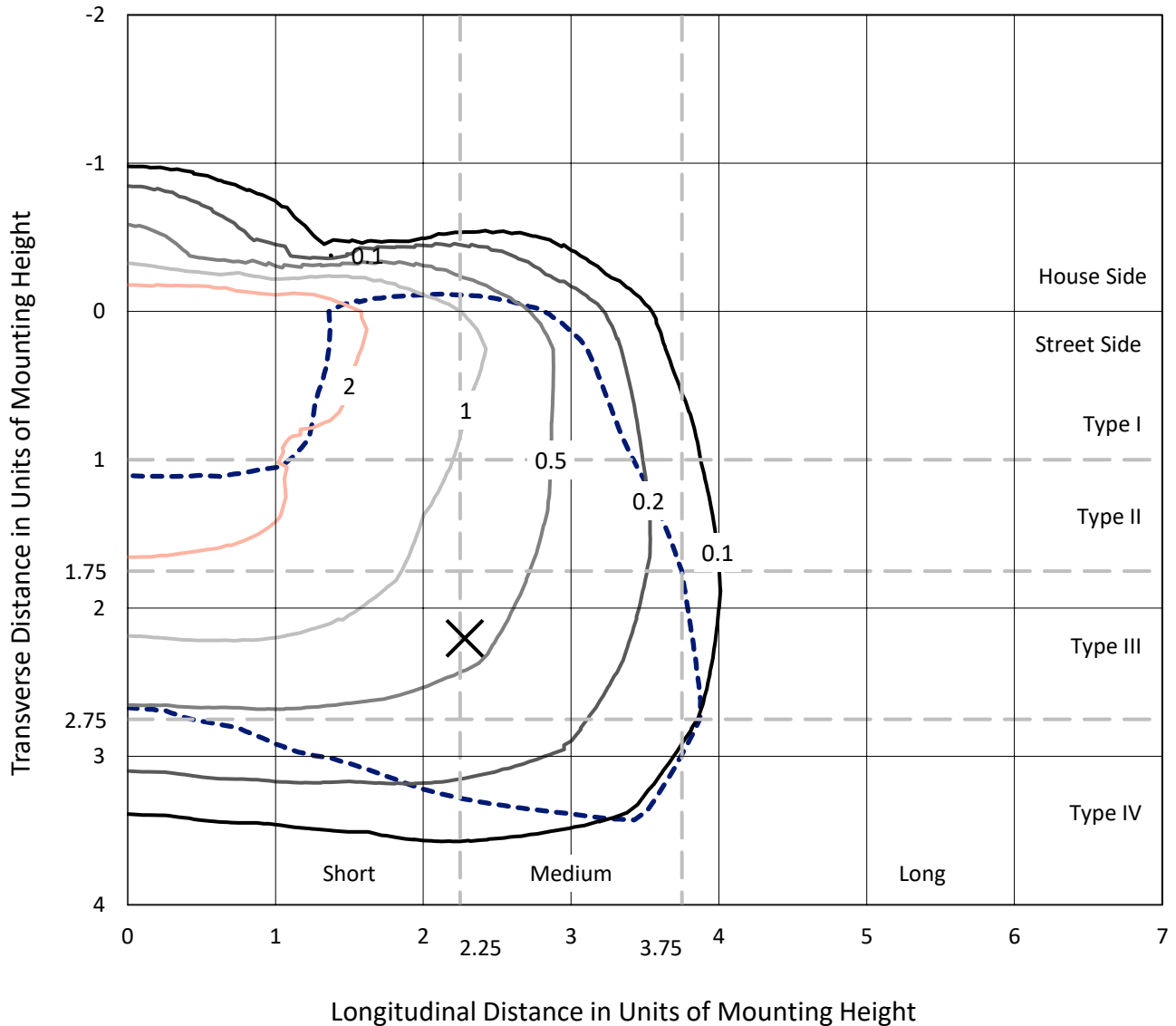
Lumens per Lamp: N/A  
Luminaire Lumens: 6523.3 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

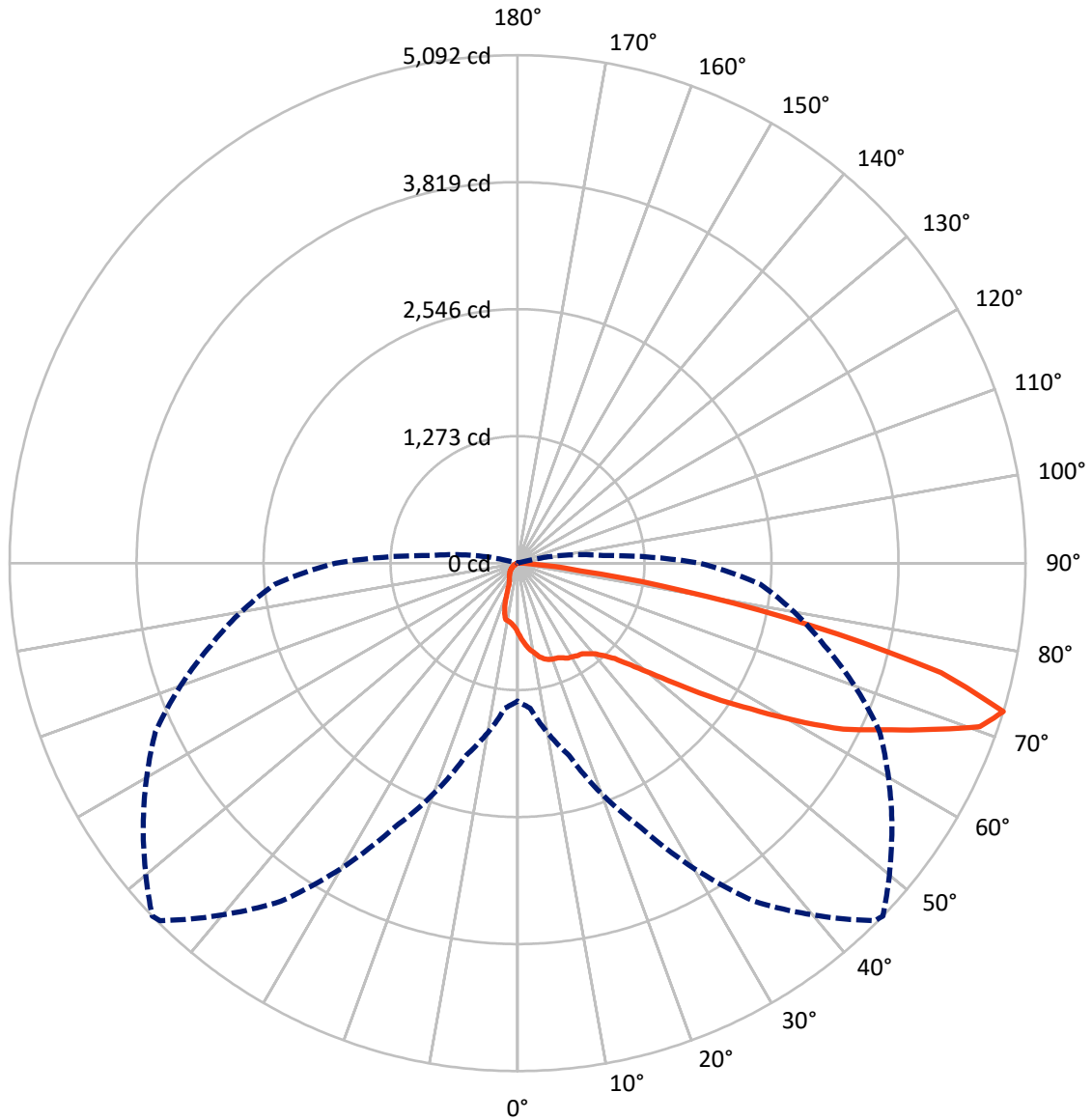
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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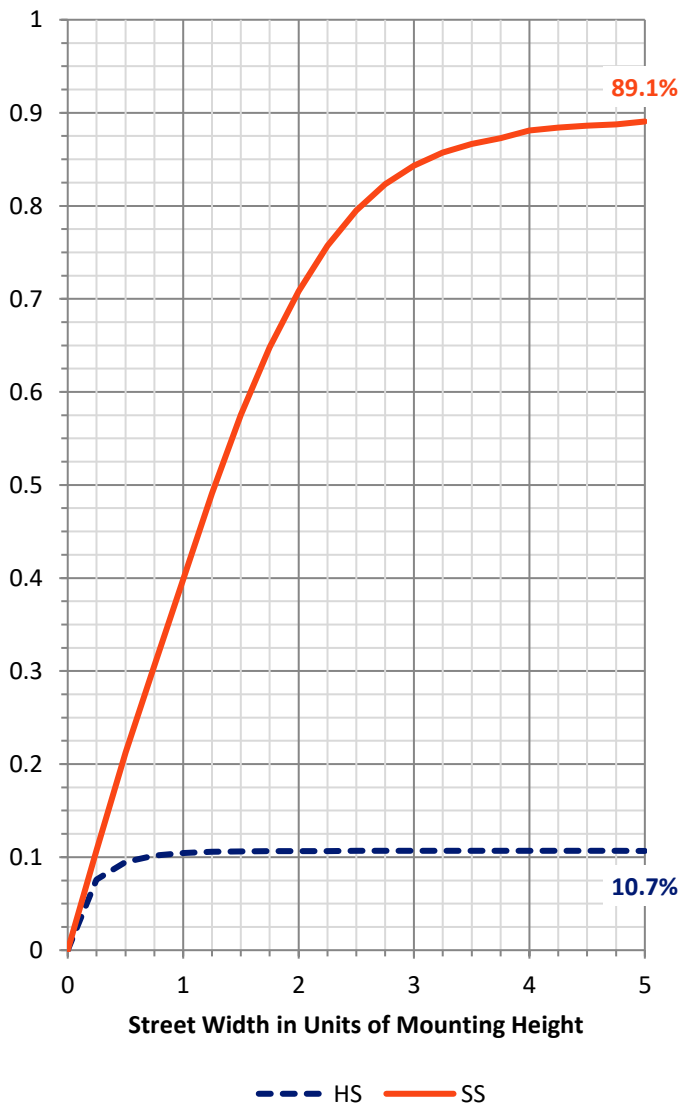
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	702.3	0.0	702.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5821.0	0.0	5821.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	6523.3	0.0	6523.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	1.1
10°-20°	210.7	3.2
20°-30°	329.8	5.1
30°-40°	461.9	7.1
40°-50°	761.6	11.7
50°-60°	1368.9	21.0
60°-70°	1984.1	30.4
70°-80°	1238.3	19.0
80°-90°	98.2	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°	6523.3	100.0
0°-180°	6523.3	100.0



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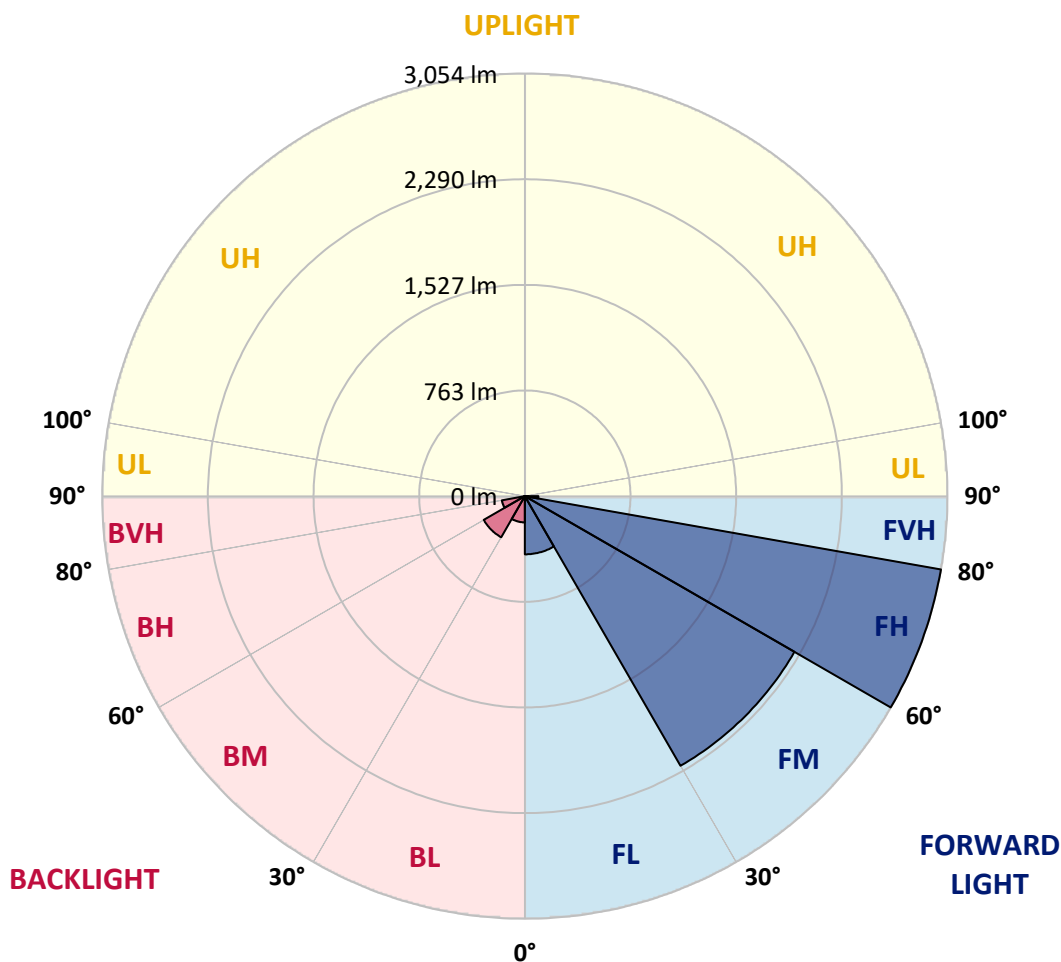
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.5	6.4			
FM (30°-60°)	2249.4	34.5			
FH (60°-80°)	3053.5	46.8			G2/5000
FVH (80°-90°)	97.6	1.5			G1/100
BL (0°-30°)	189.8	2.9	B1/500		
BM (30°-60°)	343.1	5.3	B1/1000		
BH (60°-80°)	168.9	2.6	B1/500		G1/500
BVH (80°-90°)	0.5	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2
2.5°	780.4	777.0	782.0	780.4	760.4	763.7	762.1	748.8	725.5	712.2	703.8
5°	870.2	878.5	871.9	856.9	845.3	822.0	818.6	797.0	760.4	737.1	712.2
7.5°	963.4	963.4	950.1	926.8	901.8	876.9	873.6	836.9	805.3	765.4	730.5
10°	1033.3	1025.0	1015.0	990.0	961.7	928.5	911.8	885.2	850.3	802.0	757.1
12.5°	1094.9	1081.5	1064.9	1028.3	995.0	958.4	961.7	918.5	895.2	851.9	785.4
15°	1129.8	1118.1	1103.2	1069.9	1018.3	1001.7	995.0	968.4	926.8	883.5	820.3
17.5°	1138.1	1129.8	1109.8	1066.6	1038.3	1018.3	1016.7	985.0	966.7	930.1	860.2
20°	1121.5	1106.5	1091.5	1063.2	1036.6	1030.0	1025.0	1025.0	1001.7	953.4	885.2
22.5°	1093.2	1076.6	1068.2	1051.6	1030.0	1028.3	1031.6	1028.3	1010.0	978.4	911.8
25°	1071.6	1063.2	1049.9	1044.9	1031.6	1056.6	1051.6	1046.6	1041.6	1005.0	953.4
27.5°	1078.2	1076.6	1066.6	1046.6	1036.6	1063.2	1078.2	1079.9	1078.2	1041.6	991.7
30°	1081.5	1073.2	1063.2	1058.2	1061.6	1088.2	1088.2	1124.8	1109.8	1073.2	1030.0
32.5°	1119.8	1114.8	1081.5	1069.9	1071.6	1103.2	1104.8	1141.4	1136.5	1111.5	1063.2
35°	1201.3	1168.1	1119.8	1086.5	1086.5	1128.1	1114.8	1168.1	1181.4	1141.4	1086.5
37.5°	1322.8	1297.9	1211.3	1136.5	1108.2	1138.1	1151.4	1181.4	1221.3	1186.4	1133.1
40°	1564.1	1559.1	1436.0	1274.6	1163.1	1189.7	1194.7	1241.3	1267.9	1219.6	1204.7
42.5°	1916.8	1891.9	1777.1	1522.5	1262.9	1251.3	1269.6	1299.5	1362.7	1322.8	1286.2
45°	2261.3	2249.6	2134.8	1850.3	1444.3	1374.4	1364.4	1417.7	1510.8	1467.6	1439.3
47.5°	2510.8	2487.6	2422.7	2183.1	1710.5	1519.2	1525.8	1579.1	1697.2	1663.9	1672.2
50°	2702.2	2690.5	2622.3	2490.9	2046.6	1747.1	1733.8	1787.0	1946.8	1968.4	1991.7
52.5°	2911.8	2933.5	2842.0	2730.5	2444.3	2053.3	2023.3	2041.6	2247.9	2297.9	2362.8
55°	3113.2	3148.1	3056.6	3041.6	2860.3	2392.7	2387.7	2344.5	2610.7	2617.3	2652.3
57.5°	3244.6	3233.0	3226.3	3307.9	3276.2	2782.1	2757.1	2713.8	2955.1	2911.8	3016.7
60°	3254.6	3287.9	3399.4	3600.7	3657.3	3239.6	3203.0	3084.9	3253.0	3149.8	3349.5
62.5°	3329.5	3356.1	3562.4	3840.3	3913.5	3642.3	3667.3	3367.8	3507.5	3426.0	3718.8
65°	3139.8	3223.0	3637.3	4026.7	4249.6	4050.0	4025.0	3732.2	3768.8	3692.2	4083.2
67.5°	2968.4	3000.0	3432.7	4083.2	4515.9	4459.3	4449.3	4055.0	4038.3	3896.9	4186.4
70°	2412.7	2450.9	2878.6	3793.7	4605.7	4936.8	4913.5	4507.5	4221.3	3785.4	3657.3
72.5°	1382.7	1459.3	1995.0	2921.8	4138.2	5069.9	5091.6	4580.8	4005.0	3183.1	2442.6
75°	452.6	474.2	828.6	1655.6	3094.9	4422.7	4384.4	3936.8	3231.3	2101.5	1103.2
77.5°	153.1	156.4	244.6	599.0	1715.5	2988.4	3010.0	2813.7	1985.0	873.6	304.5
80°	78.2	83.2	119.8	224.6	705.5	1627.3	1662.2	1604.0	832.0	257.9	73.2
82.5°	36.6	38.3	69.9	124.8	322.8	638.9	638.9	702.2	294.5	144.8	30.0
85°	13.3	13.3	36.6	71.5	136.4	213.0	214.6	216.3	154.7	108.2	13.3
87.5°	5.0	5.0	18.3	30.0	49.9	64.9	64.9	51.6	78.2	71.5	5.0
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°	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2	697.2
2.5°	700.5	690.5	682.2	670.6	655.6	647.3	648.9	638.9	638.9	634.0	632.3
5°	700.5	690.5	668.9	648.9	635.6	619.0	610.7	604.0	604.0	600.7	602.3
7.5°	705.5	690.5	660.6	634.0	612.3	595.7	582.4	580.7	577.4	569.1	575.7
10°	735.4	713.8	663.9	627.3	602.3	584.0	560.7	554.1	544.1	529.1	530.8
12.5°	760.4	732.1	687.2	637.3	605.7	575.7	522.5	464.2	439.3	412.7	414.3
15°	797.0	757.1	695.5	650.6	605.7	509.2	412.7	337.8	297.8	277.9	277.9
17.5°	817.0	783.7	718.8	658.9	557.4	414.3	292.8	228.0	221.3	224.6	224.6
20°	858.6	813.7	745.4	665.6	477.5	294.5	214.6	208.0	211.3	218.0	216.3
22.5°	885.2	840.3	765.4	635.6	369.4	211.3	201.3	198.0	201.3	209.7	209.7
25°	906.8	878.5	797.0	562.4	261.2	191.4	188.0	191.4	194.7	198.0	203.0
27.5°	960.1	911.8	818.6	467.6	188.0	178.0	181.4	183.0	183.0	188.0	189.7
30°	995.0	956.8	835.3	361.1	166.4	164.7	168.1	169.7	171.4	176.4	178.0
32.5°	1028.3	1015.0	813.7	244.6	156.4	153.1	151.4	153.1	159.7	164.7	163.1
35°	1076.6	1068.2	782.0	169.7	146.4	139.8	136.4	138.1	143.1	148.1	146.4
37.5°	1134.8	1143.1	705.5	148.1	136.4	128.1	121.5	121.5	123.1	128.1	129.8
40°	1203.0	1224.6	615.6	138.1	129.8	119.8	113.1	104.8	103.2	101.5	103.2
42.5°	1327.8	1352.8	514.1	131.4	119.8	108.2	98.2	88.2	79.9	74.9	74.9
45°	1502.5	1482.5	381.0	124.8	114.8	98.2	83.2	71.5	59.9	54.9	54.9
47.5°	1743.8	1675.6	261.2	118.1	106.5	86.5	69.9	54.9	44.9	39.9	39.9
50°	2078.2	1853.6	169.7	111.5	101.5	74.9	56.6	39.9	33.3	31.6	33.3
52.5°	2394.4	2035.0	134.8	103.2	91.5	64.9	43.3	33.3	30.0	28.3	28.3
55°	2685.6	2126.5	119.8	94.8	83.2	53.2	36.6	28.3	26.6	25.0	25.0
57.5°	2931.8	2158.1	103.2	83.2	66.6	41.6	30.0	25.0	21.6	20.0	20.0
60°	3144.8	2166.4	79.9	66.6	48.3	31.6	25.0	21.6	18.3	15.0	15.0
62.5°	3314.5	2108.2	56.6	46.6	33.3	25.0	21.6	15.0	10.0	6.7	5.0
65°	3449.3	1991.7	38.3	31.6	21.6	18.3	13.3	6.7	1.7	0.0	0.0
67.5°	3291.2	1727.1	30.0	23.3	15.0	11.6	6.7	1.7	0.0	0.0	0.0
70°	2683.9	1339.5	21.6	15.0	10.0	3.3	1.7	0.0	0.0	0.0	0.0
72.5°	1827.0	863.6	16.6	10.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0
75°	820.3	309.5	11.6	6.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	199.7	73.2	8.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	53.2	18.3	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	6.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.7	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)