

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: P672178

Luminaire Tested: **CCP-SA-1C-840-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672178  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-840-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T2R distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

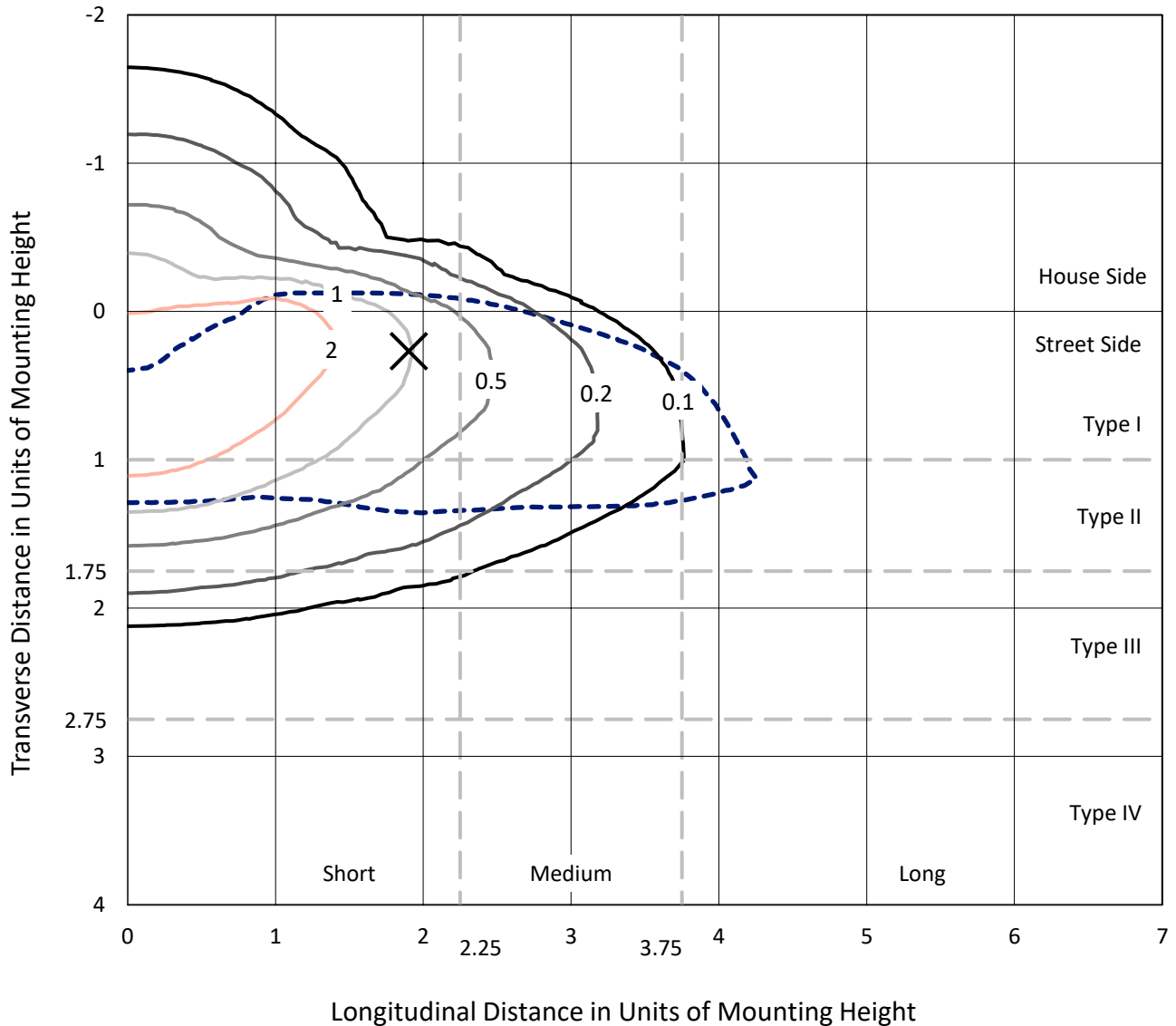
Lumens per Lamp: N/A  
Luminaire Lumens: 3915.6 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

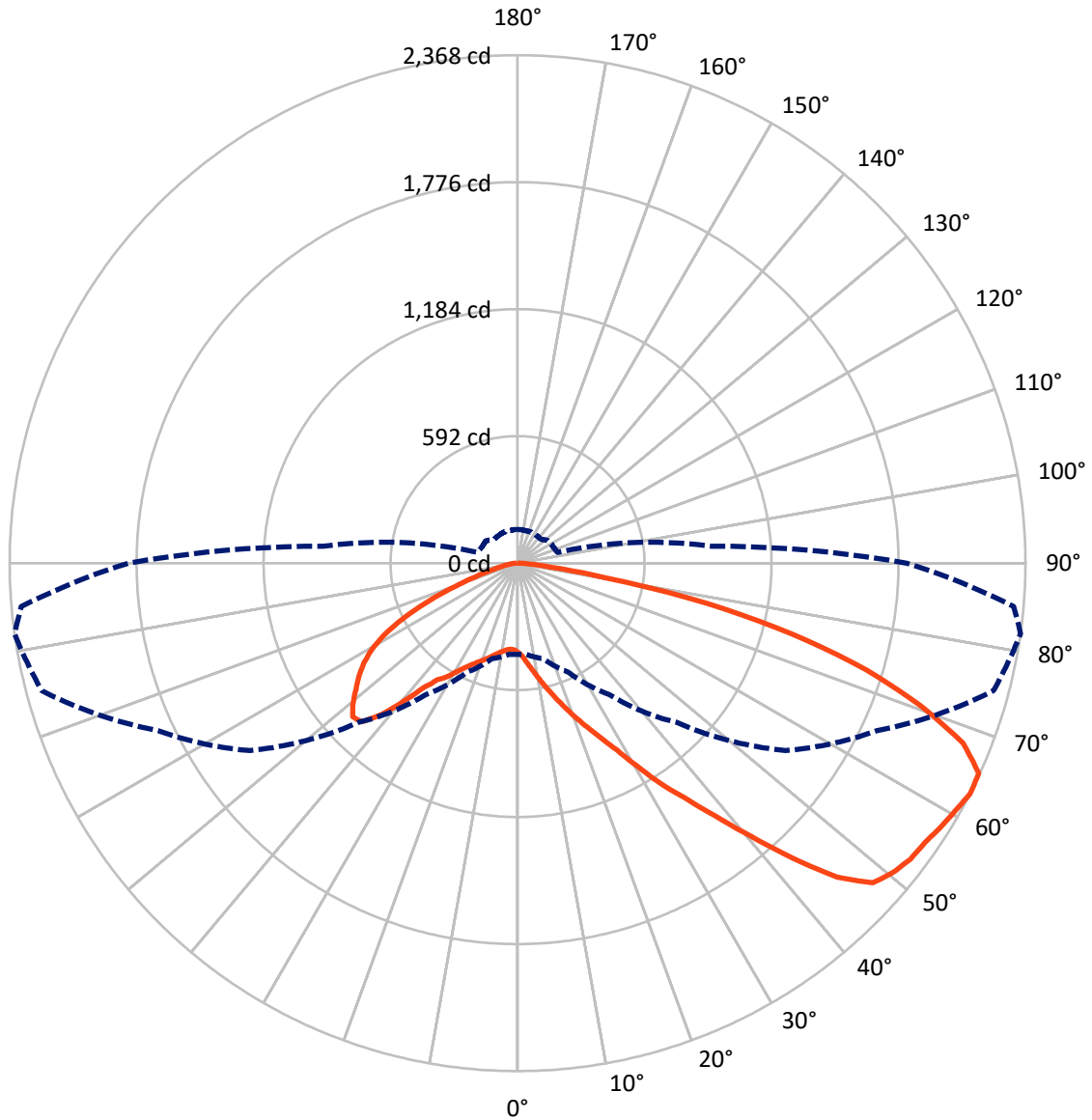
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	737.7	0.0	737.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3177.9	0.0	3177.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3915.6	0.0	3915.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	1.2
10°-20°	173.8	4.4
20°-30°	359.9	9.2
30°-40°	610.9	15.6
40°-50°	831.9	21.2
50°-60°	842.0	21.5
60°-70°	663.6	16.9
70°-80°	326.9	8.3
80°-90°	60.5	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°	3915.6	100.0
0°-180°	3915.6	100.0



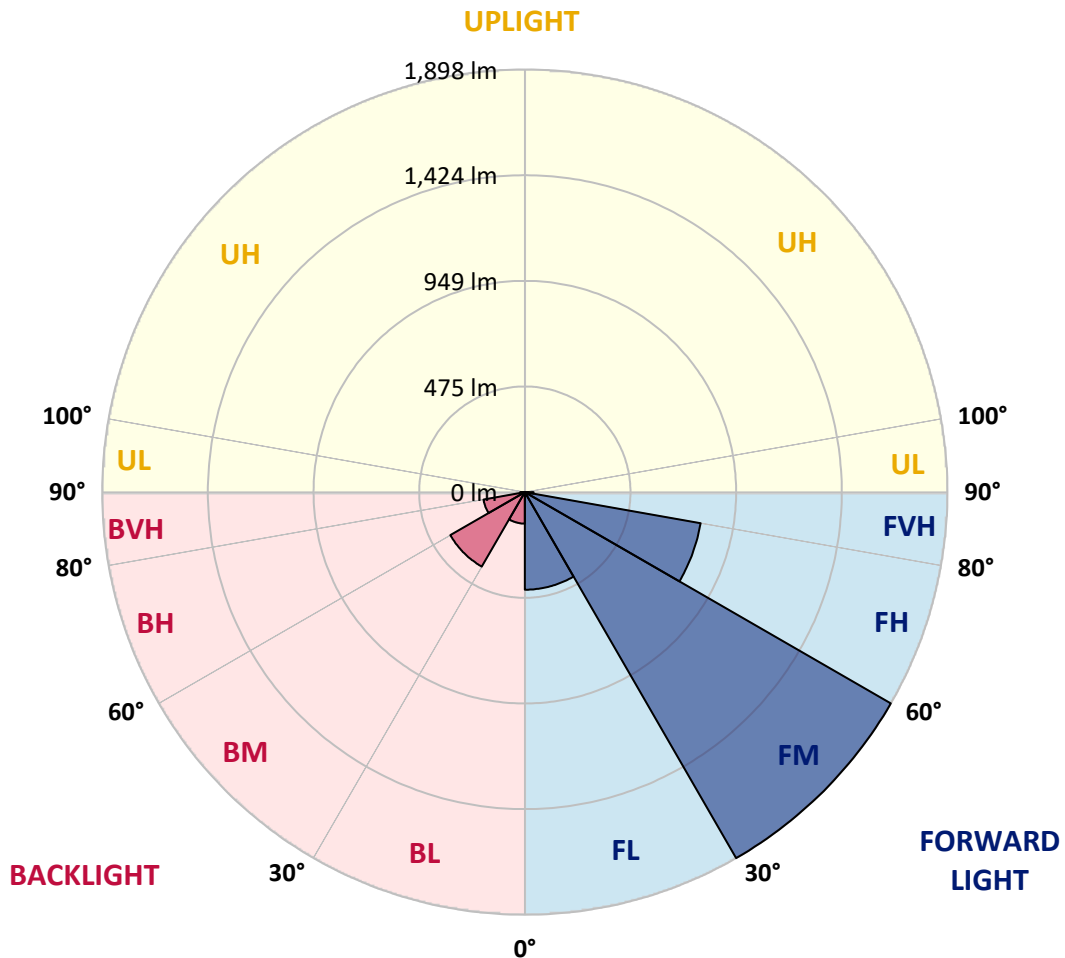
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.2	11.2			
FM (30°-60°)	1898.4	48.5			
FH (60°-80°)	802.0	20.5			G1/1800
FVH (80°-90°)	39.3	1.0			G1/100
BL (0°-30°)	141.5	3.6	B1/500		
BM (30°-60°)	386.4	9.9	B1/1000		
BH (60°-80°)	188.6	4.8	B1/500		G1/500
BVH (80°-90°)	21.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	554.5	546.1	541.6	536.5	522.4	513.4	496.5	476.7	453.9	434.4	430.8
5°	671.5	663.1	664.2	651.8	631.2	612.0	580.5	543.3	499.8	466.6	455.0
7.5°	754.1	744.8	747.1	742.0	725.4	704.2	664.2	616.3	552.8	503.5	484.9
10°	809.4	810.5	812.2	810.2	799.5	784.6	744.8	691.8	612.9	547.2	521.8
12.5°	872.0	875.1	874.5	875.4	869.7	857.9	819.0	769.1	676.9	594.3	561.3
15°	951.8	948.7	951.2	954.9	948.7	935.7	901.3	842.1	744.0	646.7	605.8
17.5°	1039.2	1032.7	1039.4	1035.8	1031.3	1022.8	985.0	921.9	813.3	703.4	655.5
20°	1114.7	1110.5	1114.1	1114.7	1115.6	1113.9	1075.0	1007.9	886.1	765.1	709.0
22.5°	1199.6	1197.6	1197.0	1197.3	1198.2	1200.1	1173.6	1102.0	966.7	830.0	766.8
25°	1318.3	1316.3	1303.3	1288.9	1280.5	1286.7	1272.9	1208.9	1055.8	902.7	830.3
27.5°	1451.3	1448.2	1431.0	1394.7	1367.6	1372.1	1370.7	1326.7	1158.4	986.2	906.4
30°	1589.5	1581.9	1558.2	1507.1	1464.6	1456.7	1460.6	1446.0	1287.5	1097.0	1012.4
32.5°	1712.7	1698.6	1667.3	1615.7	1564.9	1542.1	1542.7	1549.2	1427.9	1226.1	1123.5
35°	1787.9	1778.6	1755.2	1703.1	1646.4	1631.2	1627.0	1659.4	1556.8	1345.6	1223.0
37.5°	1828.5	1819.5	1794.4	1752.4	1709.6	1703.4	1711.3	1761.4	1703.1	1494.7	1358.3
40°	1821.2	1811.6	1795.3	1765.9	1737.8	1742.6	1777.5	1855.0	1862.9	1673.2	1551.1
42.5°	1760.9	1750.7	1749.3	1747.3	1734.1	1755.2	1818.4	1923.5	2009.8	1879.3	1784.6
45°	1654.3	1648.1	1655.4	1689.3	1705.9	1746.8	1837.6	1956.8	2138.9	2088.7	2005.3
47.5°	1519.3	1515.6	1532.2	1585.8	1639.6	1720.8	1850.2	1965.8	2227.7	2227.7	2149.9
50°	1368.2	1366.8	1388.7	1466.6	1550.8	1673.2	1848.8	1974.3	2266.6	2268.6	2201.0
52.5°	1157.3	1164.6	1223.3	1325.9	1440.3	1598.5	1829.1	1998.0	2288.6	2293.1	2235.1
55°	914.3	921.3	1009.8	1148.0	1294.6	1507.7	1770.2	1990.9	2292.9	2303.0	2254.5
57.5°	729.9	731.3	786.6	950.6	1132.2	1391.6	1702.2	1944.1	2280.5	2324.7	2284.4
60°	571.2	575.7	612.6	742.6	943.9	1241.9	1626.4	1897.9	2287.5	2345.3	2311.5
62.5°	425.4	426.5	460.9	561.6	749.9	1051.0	1523.5	1848.6	2297.4	2368.4	2322.5
65°	277.1	276.8	310.1	400.9	560.2	844.9	1362.0	1771.3	2298.2	2363.3	2272.0
67.5°	176.2	177.3	191.7	248.9	375.0	637.7	1142.1	1627.8	2258.2	2240.4	2088.2
70°	142.9	143.2	147.7	162.7	228.4	435.8	858.4	1403.4	2131.6	1995.4	1815.0
72.5°	127.4	127.7	130.0	131.7	152.2	261.9	563.3	1139.5	1906.6	1700.8	1505.7
75°	114.5	114.5	115.9	114.2	124.9	164.4	319.7	856.8	1570.3	1324.5	1137.5
77.5°	100.4	100.1	100.1	99.2	108.0	120.1	160.1	598.0	1131.1	903.3	737.8
80°	85.1	84.6	85.4	84.9	93.3	91.1	93.3	369.0	613.2	414.1	314.1
82.5°	66.3	66.3	68.8	69.4	77.0	66.0	65.7	175.1	232.9	154.8	115.9
85°	34.7	38.9	52.4	54.7	58.1	41.4	48.2	81.8	93.3	59.2	42.3
87.5°	10.4	11.0	32.1	36.1	35.8	20.9	29.6	39.5	43.7	26.2	17.2
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°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	421.5	411.6	390.7	372.1	358.0	344.5	335.2	330.4	324.2	325.1	323.1
5°	434.4	414.1	377.2	347.3	327.3	312.1	302.8	298.0	293.5	291.2	292.9
7.5°	453.9	422.3	370.7	334.6	313.8	300.8	295.7	294.3	293.2	292.4	293.8
10°	479.0	436.7	369.6	330.1	311.0	303.1	301.1	300.2	299.1	298.0	298.8
12.5°	504.6	452.5	373.5	331.3	315.5	309.5	307.0	305.9	303.1	301.7	301.9
15°	536.8	471.7	378.9	335.8	321.4	313.8	310.4	307.3	302.8	300.8	301.7
17.5°	571.2	494.5	386.2	340.0	323.6	314.3	307.6	303.1	298.6	295.7	296.0
20°	610.1	517.0	392.7	341.4	322.5	309.5	301.4	296.0	290.1	287.0	286.1
22.5°	650.4	540.7	397.8	340.3	316.3	301.4	292.1	285.6	278.5	273.7	274.0
25°	699.4	572.9	402.0	336.3	308.1	290.7	280.2	272.1	264.7	260.2	260.5
27.5°	758.4	609.2	407.1	330.1	298.3	279.1	267.0	258.8	251.8	247.5	247.0
30°	837.0	656.6	412.7	322.5	285.9	266.4	254.6	246.1	239.4	235.4	235.4
32.5°	925.5	714.4	416.7	313.5	272.1	252.9	242.2	235.4	230.3	225.0	224.4
35°	1002.5	759.2	428.8	306.4	259.9	240.2	232.9	228.1	220.5	215.4	214.5
37.5°	1115.6	838.1	464.6	304.5	245.3	230.3	228.9	219.9	211.2	201.6	200.7
40°	1297.7	974.9	506.3	294.9	230.0	225.0	223.6	211.4	190.9	184.9	183.8
42.5°	1529.4	1139.5	510.8	267.0	219.3	220.5	216.2	192.6	183.5	179.0	177.9
45°	1738.6	1273.2	485.2	238.5	211.4	213.7	205.0	185.5	180.4	176.2	175.1
47.5°	1856.2	1314.3	436.7	217.1	205.5	207.8	186.9	182.1	177.0	172.8	171.7
50°	1889.1	1278.5	380.3	204.7	201.0	201.9	182.1	179.3	174.8	171.4	169.7
52.5°	1895.6	1224.9	328.2	197.3	197.6	190.0	177.9	175.6	172.8	167.5	165.5
55°	1898.5	1176.7	281.4	192.8	195.4	174.8	173.4	171.7	169.4	163.8	162.7
57.5°	1905.8	1115.0	244.7	189.5	192.6	167.7	168.3	167.2	164.4	161.8	161.3
60°	1884.9	1029.6	216.5	186.1	188.6	161.8	162.4	163.0	160.4	159.8	159.6
62.5°	1815.0	908.3	192.6	181.6	180.4	155.9	155.9	158.2	155.9	156.7	156.7
65°	1670.9	753.9	171.1	173.1	167.7	149.4	149.1	153.1	149.7	153.4	153.6
67.5°	1425.4	570.6	149.1	159.8	154.5	142.7	143.8	146.9	142.4	150.0	150.0
70°	1128.2	388.2	126.3	141.2	141.0	135.0	138.7	138.4	133.3	144.6	142.7
72.5°	840.4	249.2	102.9	118.4	123.2	126.9	133.6	127.7	122.9	129.4	123.5
75°	587.2	156.2	81.2	93.6	102.6	117.8	127.4	115.6	108.5	106.6	104.9
77.5°	351.6	99.8	64.0	71.3	80.1	107.1	119.5	102.9	92.2	91.1	87.7
80°	162.1	65.1	48.8	53.3	56.9	91.9	108.8	88.0	75.0	73.9	69.9
82.5°	73.3	42.9	36.4	38.1	38.3	73.0	91.9	69.6	57.2	92.8	80.3
85°	34.1	27.6	23.7	22.6	22.8	48.8	66.8	47.9	65.1	50.7	38.6
87.5°	14.7	14.1	12.1	9.6	8.7	10.4	25.7	20.0	28.5	11.3	7.6
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)