

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: P672083

Luminaire Tested: **CCP-SA-2A-727-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672083
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-727-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

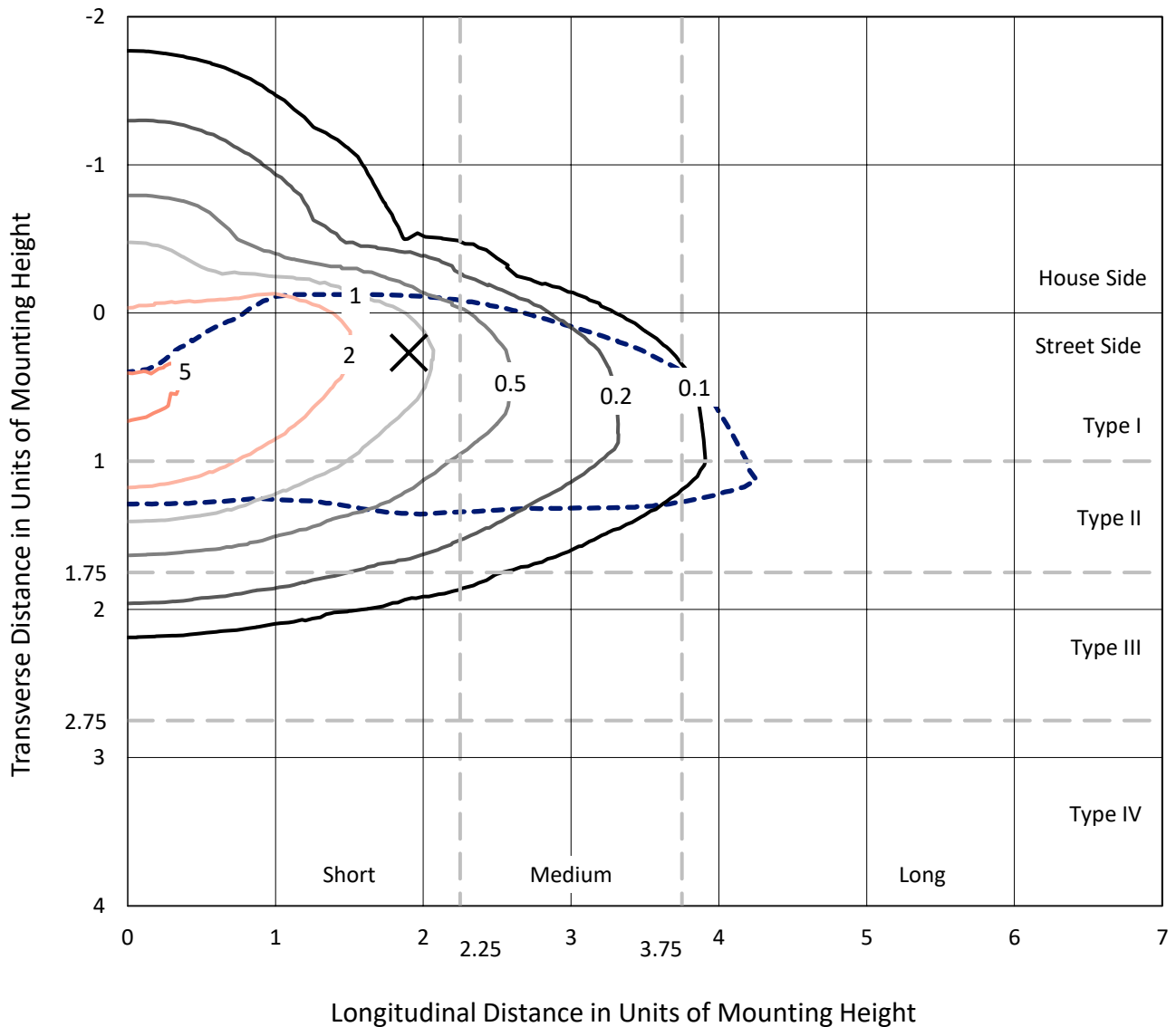
Lumens per Lamp: N/A
Luminaire Lumens: 4648.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

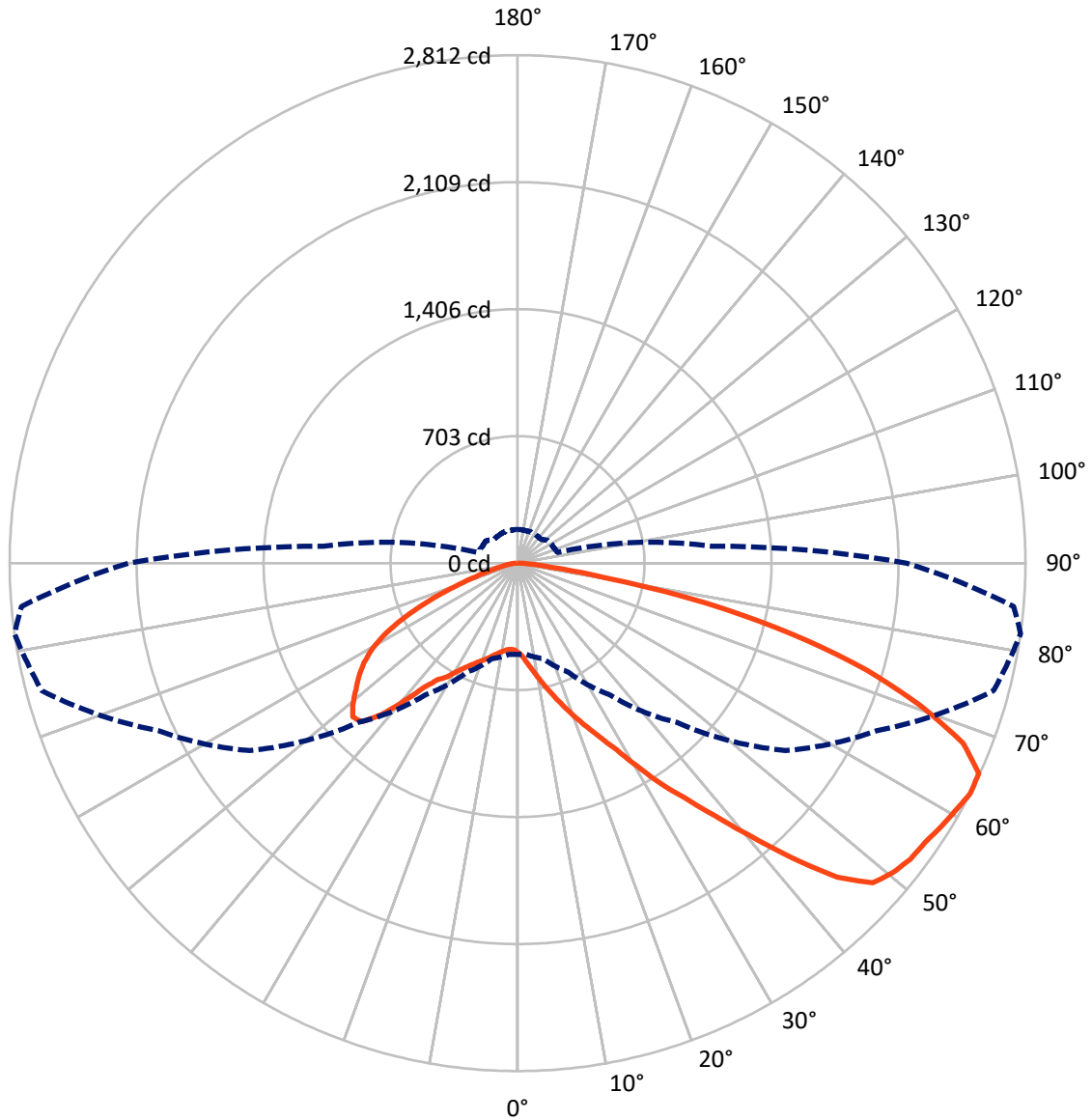
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	875.7	0.0	875.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3772.4	0.0	3772.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	4648.1	0.0	4648.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.2
10°-20°	206.3	4.4
20°-30°	427.2	9.2
30°-40°	725.2	15.6
40°-50°	987.5	21.2
50°-60°	999.6	21.5
60°-70°	787.8	16.9
70°-80°	388.1	8.3
80°-90°	71.8	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°	4648.1	100.0
0°-180°	4648.1	100.0



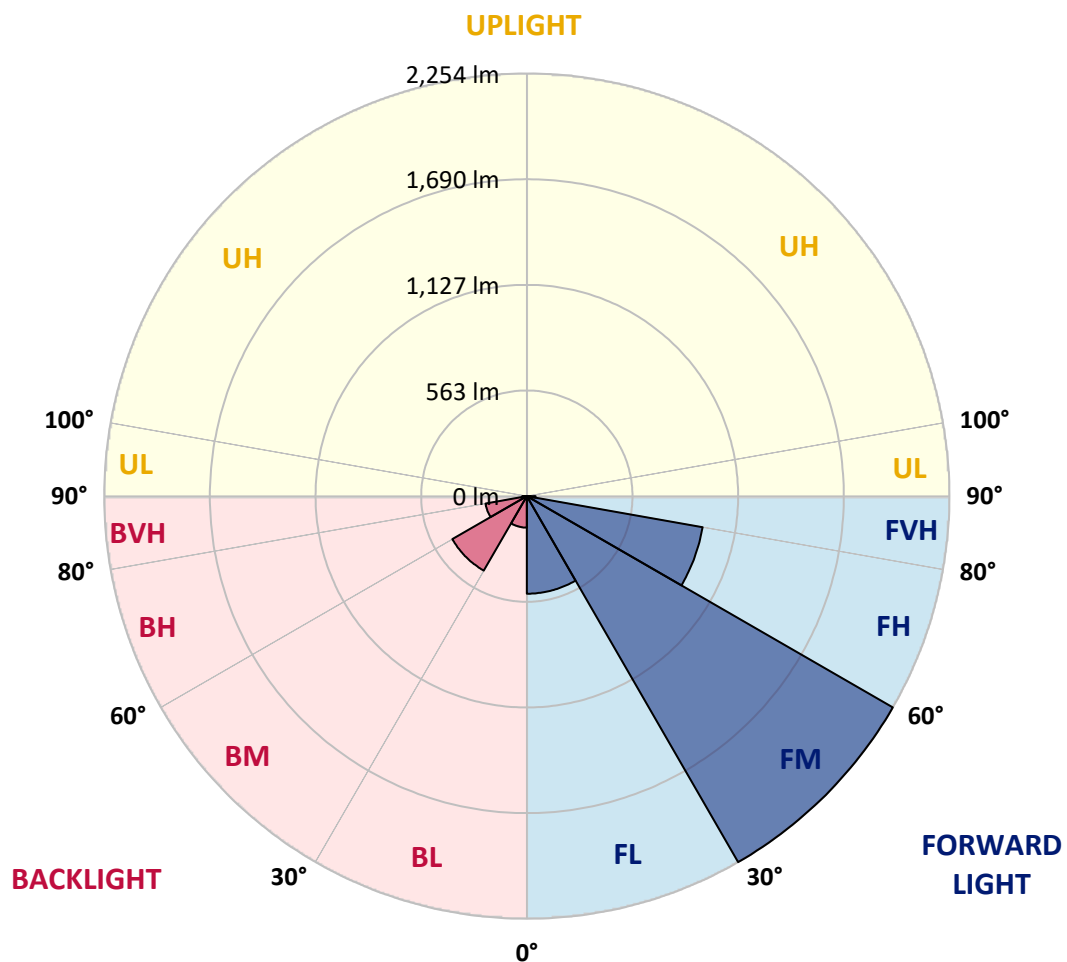
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.2	11.2			
FM (30°-60°)	2253.5	48.5			
FH (60°-80°)	952.0	20.5			G1/1800
FVH (80°-90°)	46.6	1.0			G1/100
BL (0°-30°)	168.0	3.6	B1/500		
BM (30°-60°)	458.7	9.9	B1/1000		
BH (60°-80°)	223.8	4.8	B1/500		G1/500
BVH (80°-90°)	25.2	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°	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3
2.5°	658.3	648.2	642.9	636.9	620.1	609.4	589.3	565.9	538.8	515.7	511.4
5°	797.2	787.1	788.5	773.7	749.3	726.5	689.1	644.9	593.3	553.9	540.1
7.5°	895.2	884.2	886.8	880.8	861.1	836.0	788.5	731.6	656.3	597.7	575.6
10°	960.8	962.1	964.1	961.8	949.1	931.4	884.2	821.2	727.5	649.6	619.5
12.5°	1035.1	1038.8	1038.1	1039.1	1032.4	1018.4	972.2	912.9	803.5	705.5	666.3
15°	1129.8	1126.1	1129.1	1133.5	1126.1	1110.7	1069.9	999.6	883.2	767.7	719.2
17.5°	1233.5	1225.8	1233.9	1229.5	1224.2	1214.1	1169.3	1094.3	965.5	835.0	778.1
20°	1323.2	1318.2	1322.6	1323.2	1324.2	1322.2	1276.0	1196.4	1051.8	908.3	841.7
22.5°	1424.0	1421.6	1421.0	1421.3	1422.3	1424.6	1393.2	1308.2	1147.5	985.2	910.3
25°	1564.9	1562.5	1547.1	1530.1	1520.0	1527.4	1511.0	1435.0	1253.3	1071.6	985.6
27.5°	1722.8	1719.1	1698.7	1655.6	1623.4	1628.8	1627.1	1574.9	1375.1	1170.6	1075.9
30°	1886.8	1877.8	1849.7	1789.1	1738.5	1729.2	1733.9	1716.5	1528.4	1302.2	1201.8
32.5°	2033.0	2016.3	1979.2	1917.9	1857.7	1830.6	1831.2	1838.9	1695.0	1455.4	1333.6
35°	2122.4	2111.4	2083.6	2021.7	1954.4	1936.3	1931.3	1969.8	1848.0	1597.3	1451.7
37.5°	2170.6	2159.9	2130.1	2080.2	2029.4	2022.0	2031.4	2090.9	2021.7	1774.4	1612.4
40°	2161.9	2150.5	2131.1	2096.3	2062.8	2068.5	2110.0	2202.0	2211.4	1986.2	1841.3
42.5°	2090.3	2078.2	2076.5	2074.2	2058.5	2083.6	2158.5	2283.4	2385.8	2230.8	2118.4
45°	1963.8	1956.4	1965.1	2005.3	2025.0	2073.5	2181.3	2322.9	2539.0	2479.5	2380.4
47.5°	1803.5	1799.1	1818.9	1882.4	1946.4	2042.7	2196.4	2333.6	2644.5	2644.5	2552.1
50°	1624.1	1622.4	1648.5	1740.9	1841.0	1986.2	2194.7	2343.6	2690.6	2693.0	2612.7
52.5°	1373.8	1382.5	1452.1	1573.9	1709.8	1897.5	2171.3	2371.7	2716.7	2722.1	2653.2
55°	1085.3	1093.7	1198.7	1362.7	1536.7	1789.7	2101.3	2363.4	2721.8	2733.8	2676.3
57.5°	866.4	868.1	933.7	1128.5	1344.0	1651.9	2020.7	2307.8	2707.0	2759.6	2711.7
60°	678.0	683.4	727.2	881.5	1120.4	1474.2	1930.6	2252.9	2715.4	2784.0	2743.9
62.5°	505.0	506.3	547.2	666.6	890.2	1247.6	1808.5	2194.3	2727.1	2811.5	2756.9
65°	329.0	328.6	368.1	475.9	665.0	1003.0	1616.7	2102.7	2728.1	2805.4	2697.0
67.5°	209.2	210.5	227.6	295.5	445.1	757.0	1355.7	1932.3	2680.6	2659.5	2478.8
70°	169.7	170.0	175.4	193.1	271.1	517.4	1019.0	1665.9	2530.3	2368.7	2154.5
72.5°	151.3	151.6	154.3	156.3	180.7	310.9	668.6	1352.7	2263.3	2019.0	1787.4
75°	135.9	135.9	137.5	135.5	148.3	195.1	379.5	1017.0	1864.0	1572.2	1350.3
77.5°	119.1	118.8	118.8	117.8	128.2	142.6	190.1	709.8	1342.6	1072.2	875.8
80°	101.1	100.4	101.4	100.7	110.8	108.1	110.8	438.1	727.9	491.6	372.8
82.5°	78.6	78.6	81.7	82.3	91.4	78.3	78.0	207.8	276.4	183.7	137.5
85°	41.2	46.2	62.2	64.9	68.9	49.2	57.2	97.1	110.8	70.3	50.2
87.5°	12.4	13.1	38.2	42.8	42.5	24.8	35.1	46.9	51.9	31.1	20.4
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°	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3	494.3
2.5°	500.3	488.6	463.8	441.7	425.0	409.0	397.9	392.2	384.9	385.9	383.5
5°	515.7	491.6	447.8	412.3	388.5	370.5	359.4	353.7	348.4	345.7	347.7
7.5°	538.8	501.3	440.1	397.2	372.5	357.1	351.1	349.4	348.0	347.0	348.7
10°	568.6	518.4	438.7	391.9	369.1	359.8	357.4	356.4	355.1	353.7	354.7
12.5°	599.0	537.1	443.4	393.2	374.5	367.5	364.4	363.1	359.8	358.1	358.4
15°	637.2	559.9	449.8	398.6	381.5	372.5	368.5	364.8	359.4	357.1	358.1
17.5°	678.0	587.0	458.5	403.6	384.2	373.1	365.1	359.8	354.4	351.1	351.4
20°	724.2	613.8	466.2	405.3	382.8	367.5	357.7	351.4	344.4	340.7	339.7
22.5°	772.1	641.9	472.2	403.9	375.5	357.7	346.7	339.0	330.6	325.0	325.3
25°	830.3	680.0	477.2	399.2	365.8	345.0	332.6	322.9	314.2	308.9	309.2
27.5°	900.2	723.2	483.2	391.9	354.1	331.3	316.9	307.2	298.8	293.8	293.2
30°	993.6	779.4	489.9	382.8	339.3	316.3	302.2	292.2	284.1	279.4	279.4
32.5°	1098.7	848.0	494.6	372.1	322.9	300.2	287.5	279.4	273.4	267.1	266.4
35°	1190.0	901.2	509.0	363.8	308.6	285.1	276.4	270.7	261.7	255.7	254.7
37.5°	1324.2	994.9	551.5	361.4	291.2	273.4	271.7	261.0	250.7	239.3	238.3
40°	1540.4	1157.2	601.0	350.1	273.1	267.1	265.4	251.0	226.6	219.5	218.2
42.5°	1815.5	1352.7	606.4	316.9	260.4	261.7	256.7	228.6	217.9	212.5	211.2
45°	2063.8	1511.3	575.9	283.1	251.0	253.7	243.3	220.2	214.2	209.2	207.8
47.5°	2203.4	1560.2	518.4	257.7	244.0	246.6	221.9	216.2	210.2	205.1	203.8
50°	2242.5	1517.7	451.5	243.0	238.6	239.6	216.2	212.8	207.5	203.5	201.5
52.5°	2250.2	1454.1	389.5	234.3	234.6	225.6	211.2	208.5	205.1	198.8	196.4
55°	2253.6	1396.9	334.0	228.9	231.9	207.5	205.8	203.8	201.1	194.4	193.1
57.5°	2262.3	1323.6	290.5	224.9	228.6	199.1	199.8	198.5	195.1	192.1	191.4
60°	2237.5	1222.2	257.0	220.9	223.9	192.1	192.8	193.4	190.4	189.8	189.4
62.5°	2154.5	1078.3	228.6	215.5	214.2	185.1	185.1	187.7	185.1	186.1	186.1
65°	1983.5	894.9	203.1	205.5	199.1	177.4	177.0	181.7	177.7	182.1	182.4
67.5°	1692.0	677.3	177.0	189.8	183.4	169.3	170.7	174.4	169.0	178.0	178.0
70°	1339.3	460.8	149.9	167.7	167.3	160.3	164.7	164.3	158.3	171.7	169.3
72.5°	997.6	295.8	122.1	140.6	146.2	150.6	158.6	151.6	145.9	153.6	146.6
75°	697.1	185.4	96.4	111.1	121.8	139.9	151.3	137.2	128.8	126.5	124.5
77.5°	417.3	118.5	76.0	84.7	95.0	127.2	141.9	122.1	109.4	108.1	104.1
80°	192.4	77.3	57.9	63.3	67.6	109.1	129.2	104.4	89.0	87.7	83.0
82.5°	87.0	50.9	43.2	45.2	45.5	86.7	109.1	82.7	67.9	110.1	95.4
85°	40.5	32.8	28.1	26.8	27.1	57.9	79.3	56.9	77.3	60.2	45.8
87.5°	17.4	16.7	14.4	11.4	10.4	12.4	30.5	23.8	33.8	13.4	9.0
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)