

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: P675783

Luminaire Tested: **CCW-SA-2C-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675783
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL4 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

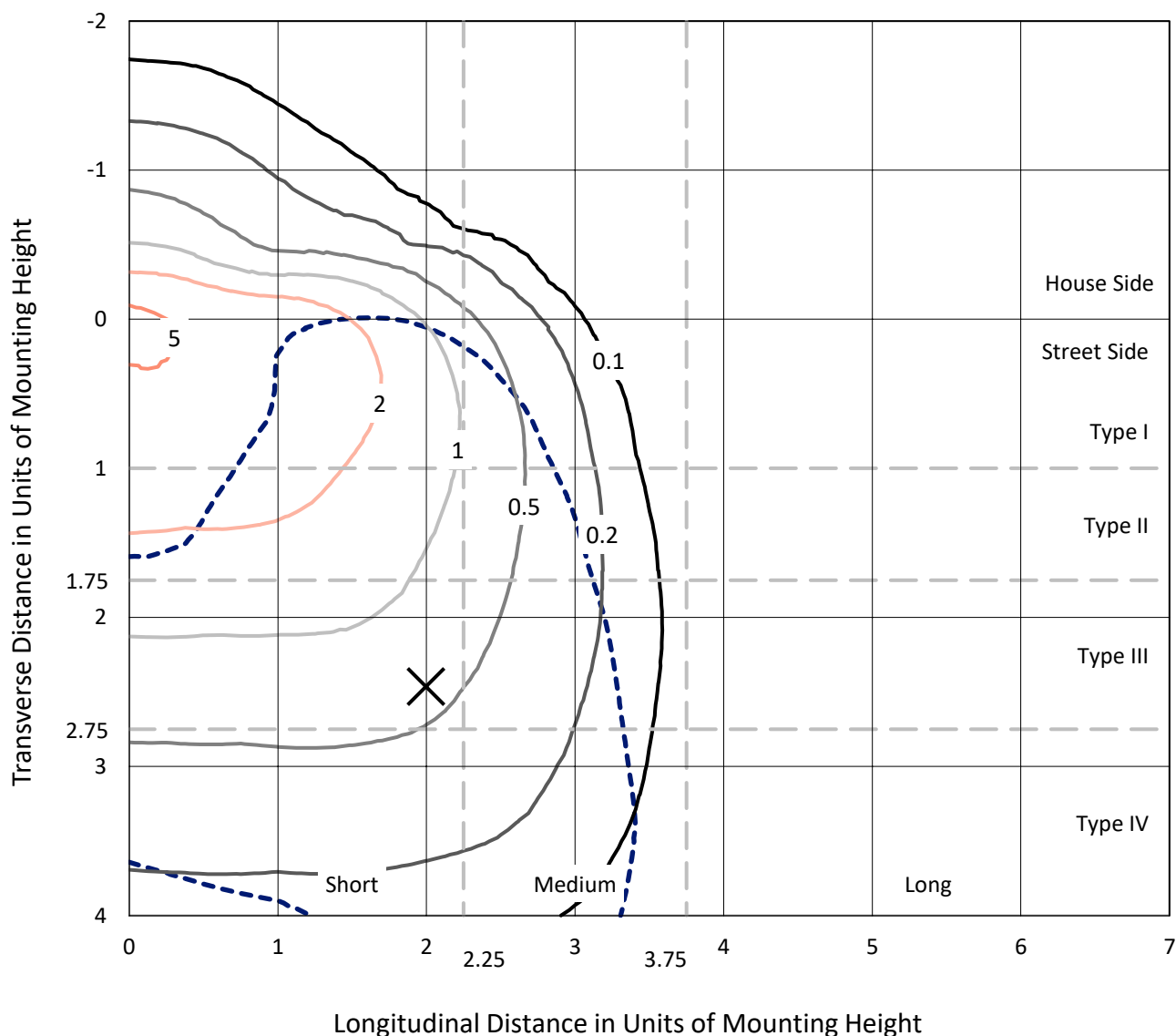
Lumens per Lamp: N/A
Luminaire Lumens: 7731.2 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

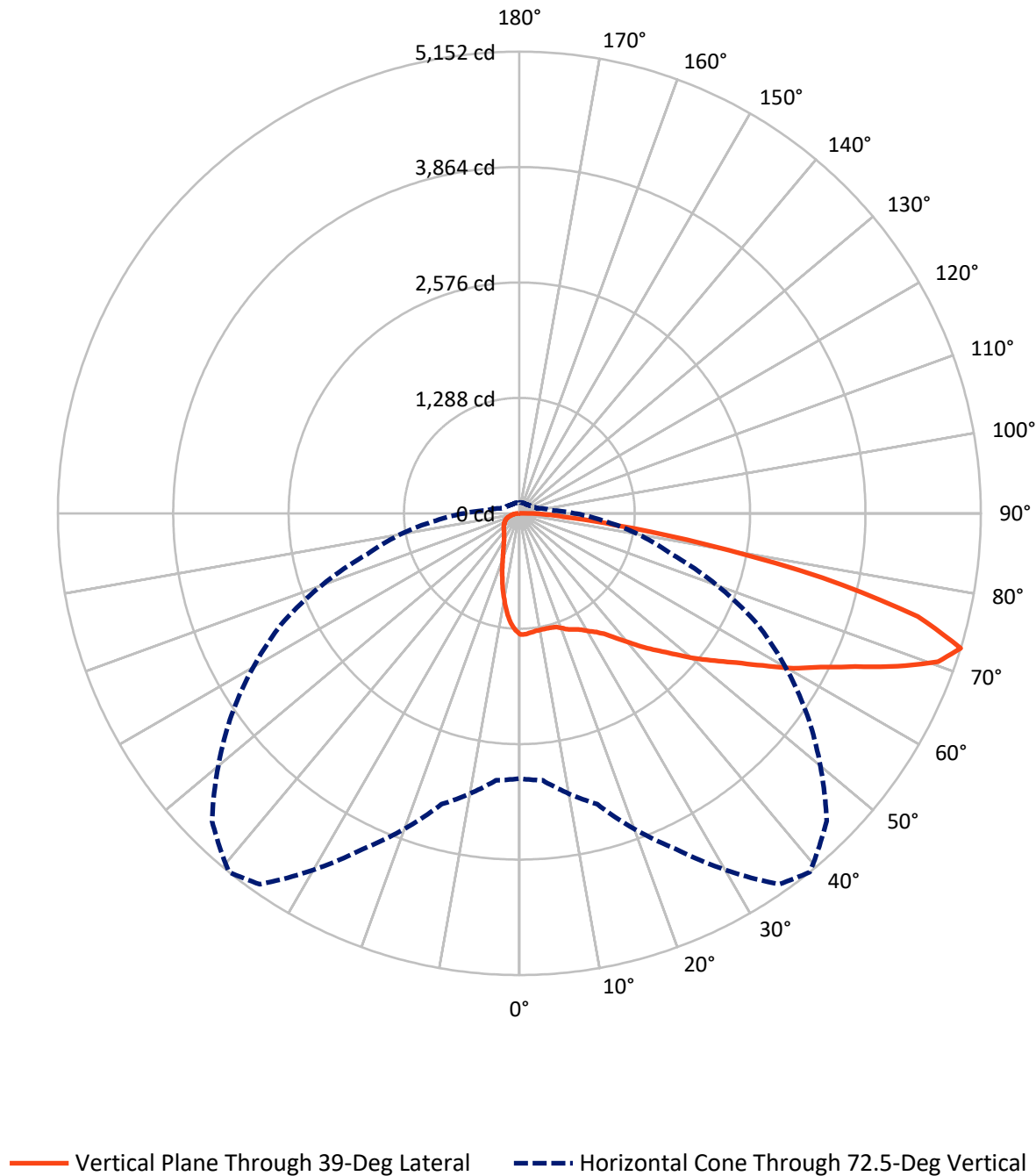
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1149.0	0.0	1149.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6582.2	0.0	6582.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	7731.2	0.0	7731.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	1.5
10°-20°	305.2	3.9
20°-30°	465.0	6.0
30°-40°	680.2	8.8
40°-50°	1041.4	13.5
50°-60°	1527.3	19.8
60°-70°	1947.8	25.2
70°-80°	1407.3	18.2
80°-90°	237.4	3.1
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°	7731.2	100.0
0°-180°	7731.2	100.0

Coefficient of Utilization



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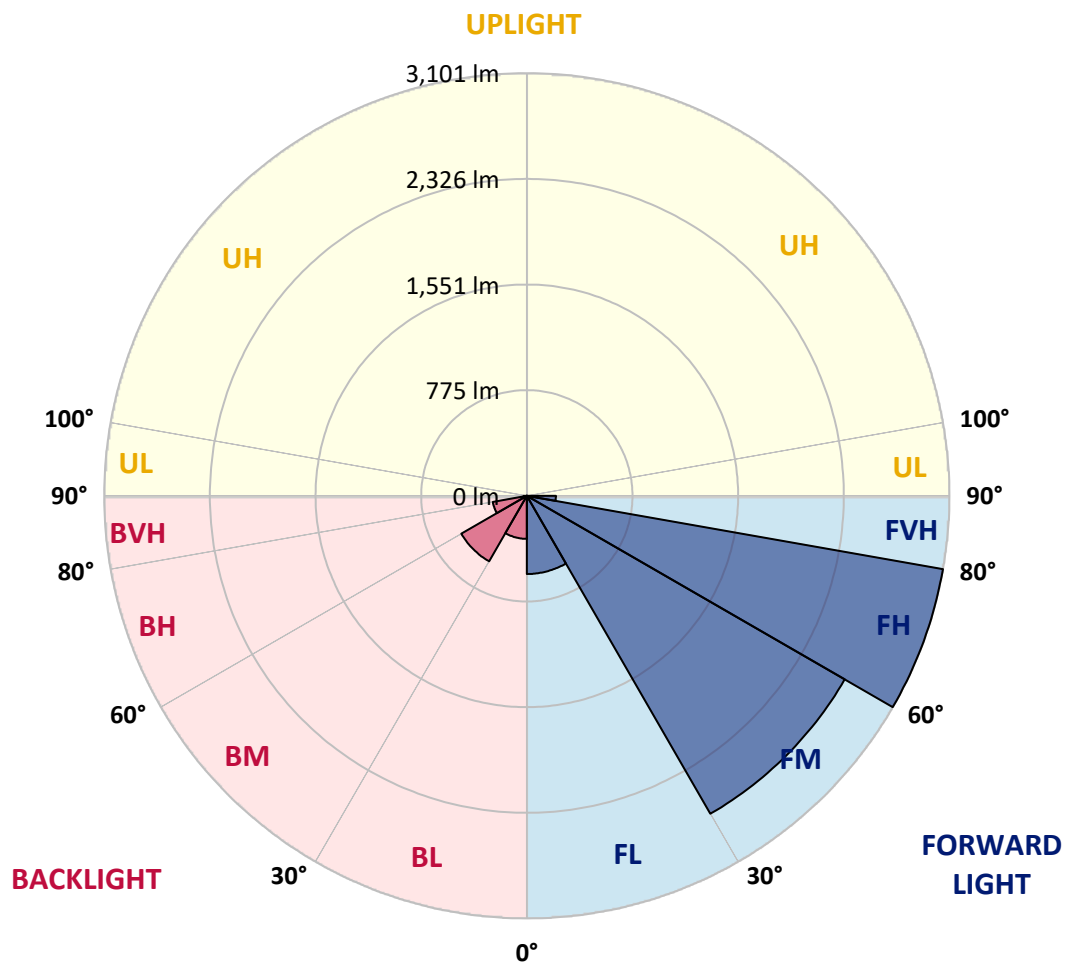
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.8	7.4			
FM	(30°-60°)	2693.7	34.8			
FH	(60°-80°)	3101.3	40.1			G2/5000
FVH	(80°-90°)	213.4	2.8			G2/225
BL	(0°-30°)	316.0	4.1	B1/500		
BM	(30°-60°)	555.1	7.2	B1/1000		
BH	(60°-80°)	253.9	3.3	B1/500		G1/500
BVH	(80°-90°)	24.1	0.3			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3
2.5°	1373.6	1376.5	1370.7	1364.9	1362.0	1350.4	1362.0	1356.2	1350.4	1350.4	1350.4
5°	1356.2	1359.1	1359.1	1353.3	1356.2	1335.9	1333.0	1335.9	1327.2	1321.4	1318.5
7.5°	1330.1	1335.9	1347.5	1344.6	1333.0	1324.3	1327.2	1324.3	1309.7	1301.0	1277.8
10°	1309.7	1315.6	1321.4	1327.2	1324.3	1321.4	1318.5	1306.8	1303.9	1283.6	1260.4
12.5°	1289.4	1289.4	1292.3	1315.6	1318.5	1318.5	1301.0	1301.0	1292.3	1289.4	1254.6
15°	1269.1	1277.8	1301.0	1306.8	1318.5	1324.3	1315.6	1315.6	1301.0	1280.7	1254.6
17.5°	1274.9	1289.4	1312.6	1327.2	1333.0	1333.0	1344.6	1335.9	1315.6	1303.9	1277.8
20°	1303.9	1306.8	1335.9	1362.0	1367.8	1367.8	1356.2	1347.5	1333.0	1312.6	1277.8
22.5°	1321.4	1341.7	1376.5	1391.1	1408.5	1408.5	1394.0	1373.6	1353.3	1333.0	1295.2
25°	1396.9	1399.8	1414.3	1437.5	1446.2	1434.6	1420.1	1396.9	1370.7	1350.4	1315.6
27.5°	1449.1	1463.7	1481.1	1492.7	1478.2	1469.5	1457.9	1431.7	1411.4	1394.0	1344.6
30°	1545.0	1527.5	1539.2	1545.0	1518.8	1524.6	1492.7	1469.5	1446.2	1446.2	1391.1
32.5°	1603.1	1617.6	1606.0	1603.1	1582.7	1579.8	1559.5	1533.4	1518.8	1536.3	1460.8
35°	1704.7	1696.0	1696.0	1693.1	1669.9	1655.3	1655.3	1608.9	1623.4	1661.1	1568.2
37.5°	1757.0	1754.1	1771.5	1786.0	1762.8	1771.5	1762.8	1742.5	1748.3	1815.1	1701.8
40°	1809.2	1829.6	1864.4	1870.2	1884.8	1896.4	1890.6	1887.7	1910.9	2018.3	1881.8
42.5°	1858.6	1876.0	1928.3	1974.8	2009.6	2047.4	2050.3	2050.3	2125.8	2279.7	2099.7
45°	1922.5	1937.0	2009.6	2102.6	2160.6	2186.8	2210.0	2236.1	2337.8	2520.7	2332.0
47.5°	2009.6	2021.2	2108.4	2224.5	2337.8	2352.3	2398.8	2427.8	2581.7	2767.6	2570.1
50°	2134.5	2125.8	2195.5	2363.9	2474.3	2544.0	2610.8	2663.0	2814.1	3017.3	2756.0
52.5°	2236.1	2236.1	2288.4	2512.0	2663.0	2729.8	2799.5	2872.1	3046.4	3267.1	2907.0
55°	2410.4	2393.0	2424.9	2657.2	2875.0	2938.9	3072.5	3133.5	3301.9	3453.0	3034.8
57.5°	2529.5	2538.2	2575.9	2848.9	3124.8	3203.2	3336.8	3380.4	3528.5	3647.5	3127.7
60°	2686.3	2657.2	2738.6	3060.9	3400.7	3511.0	3621.4	3647.5	3757.9	3772.4	3171.3
62.5°	2837.3	2831.5	2901.2	3272.9	3696.9	3775.3	3888.6	3917.6	3964.1	3871.1	3110.3
65°	2930.2	2968.0	3098.7	3505.2	4033.8	4120.9	4234.2	4176.1	4123.8	3784.0	2811.2
67.5°	3058.0	3075.4	3275.8	3757.9	4422.9	4553.6	4652.3	4422.9	4033.8	3426.8	2366.8
70°	3087.0	3133.5	3394.9	4022.2	4823.7	4957.3	4963.1	4338.7	3705.6	2787.9	1716.3
72.5°	2959.3	2991.2	3360.0	4132.5	5053.1	5151.9	4852.7	3923.4	2936.0	1757.0	935.1
75°	2488.8	2578.8	2924.4	3792.7	4632.0	4594.3	4112.2	2994.1	1762.8	778.3	395.0
77.5°	1733.7	1736.6	2096.8	2758.9	3467.5	3458.8	2933.1	1736.6	755.1	313.6	232.3
80°	769.6	824.8	1042.6	1486.9	2105.5	2105.5	1710.5	862.5	377.5	203.3	159.7
82.5°	453.0	470.5	557.6	694.1	1025.1	1080.3	819.0	575.0	258.5	127.8	98.7
85°	334.0	363.0	415.3	418.2	485.0	493.7	453.0	499.5	177.1	69.7	81.3
87.5°	249.8	267.2	331.1	275.9	258.5	243.9	278.8	511.1	66.8	34.8	26.1
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°	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3
2.5°	1338.8	1338.8	1333.0	1321.4	1321.4	1298.1	1303.9	1309.7	1295.2	1295.2	1298.1
5°	1318.5	1306.8	1292.3	1274.9	1263.3	1231.3	1225.5	1205.2	1202.3	1196.5	1187.8
7.5°	1277.8	1260.4	1234.2	1208.1	1170.3	1141.3	1106.5	1077.4	1065.8	1057.1	1054.2
10°	1240.0	1237.1	1193.6	1141.3	1083.2	1028.0	975.8	938.0	914.8	900.3	897.4
12.5°	1240.0	1216.8	1155.8	1083.2	999.0	917.7	850.9	798.6	766.7	743.4	734.7
15°	1234.2	1211.0	1129.7	1019.3	923.5	813.1	720.2	665.0	618.6	595.3	598.2
17.5°	1240.0	1205.2	1091.9	972.9	839.3	720.2	609.9	543.1	496.6	479.2	476.3
20°	1242.9	1199.4	1062.9	909.0	752.2	618.6	514.0	450.1	415.3	403.7	403.7
22.5°	1237.1	1182.0	1019.3	833.5	676.7	534.4	447.2	392.1	368.8	354.3	360.1
25°	1263.3	1179.1	978.7	769.6	589.5	464.7	397.9	357.2	342.7	334.0	336.9
27.5°	1269.1	1179.1	946.7	697.0	514.0	412.4	360.1	334.0	322.4	316.5	313.6
30°	1292.3	1184.9	909.0	624.4	453.0	371.7	331.1	316.5	307.8	304.9	304.9
32.5°	1356.2	1202.3	868.3	563.4	400.8	336.9	310.7	299.1	293.3	290.4	293.3
35°	1431.7	1248.8	824.8	499.5	363.0	313.6	293.3	284.6	281.7	281.7	281.7
37.5°	1547.9	1318.5	787.0	447.2	331.1	290.4	275.9	273.0	270.1	273.0	273.0
40°	1681.5	1394.0	752.2	406.6	307.8	275.9	261.4	261.4	258.5	261.4	264.3
42.5°	1835.4	1486.9	717.3	365.9	287.5	264.3	252.7	249.8	246.8	252.7	255.6
45°	2047.4	1614.7	694.1	342.7	273.0	252.7	241.0	241.0	238.1	238.1	243.9
47.5°	2224.5	1736.6	694.1	319.4	264.3	243.9	232.3	232.3	226.5	229.4	229.4
50°	2372.6	1841.2	708.6	313.6	252.7	235.2	226.5	220.7	217.8	217.8	217.8
52.5°	2471.4	1905.1	720.2	307.8	246.8	223.6	217.8	214.9	209.1	206.2	209.1
55°	2570.1	1948.6	723.1	307.8	238.1	212.0	206.2	206.2	200.4	197.5	197.5
57.5°	2607.9	1931.2	682.5	302.0	232.3	203.3	197.5	194.6	191.7	188.8	188.8
60°	2590.4	1867.3	592.4	287.5	226.5	197.5	185.9	185.9	185.9	180.1	183.0
62.5°	2471.4	1649.5	476.3	264.3	217.8	185.9	174.2	180.1	180.1	177.1	177.1
65°	2157.7	1362.0	386.2	243.9	206.2	177.1	165.5	174.2	177.1	174.2	171.3
67.5°	1725.0	1048.4	319.4	220.7	191.7	162.6	153.9	162.6	165.5	162.6	162.6
70°	1184.9	676.7	258.5	197.5	171.3	148.1	139.4	145.2	145.2	148.1	148.1
72.5°	612.8	365.9	212.0	168.4	148.1	133.6	124.9	124.9	122.0	122.0	122.0
75°	304.9	249.8	177.1	142.3	124.9	113.3	107.5	101.6	101.6	101.6	101.6
77.5°	212.0	191.7	145.2	113.3	101.6	92.9	92.9	84.2	84.2	84.2	84.2
80°	159.7	151.0	110.4	87.1	78.4	72.6	72.6	69.7	69.7	66.8	66.8
82.5°	113.3	122.0	84.2	63.9	58.1	55.2	55.2	52.3	52.3	46.5	46.5
85°	90.0	101.6	63.9	46.5	43.6	37.8	37.8	34.8	34.8	31.9	29.0
87.5°	26.1	55.2	26.1	17.4	17.4	17.4	17.4	14.5	14.5	11.6	11.6
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)