

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: P675762

Luminaire Tested: **CCW-SA-2D-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675762
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

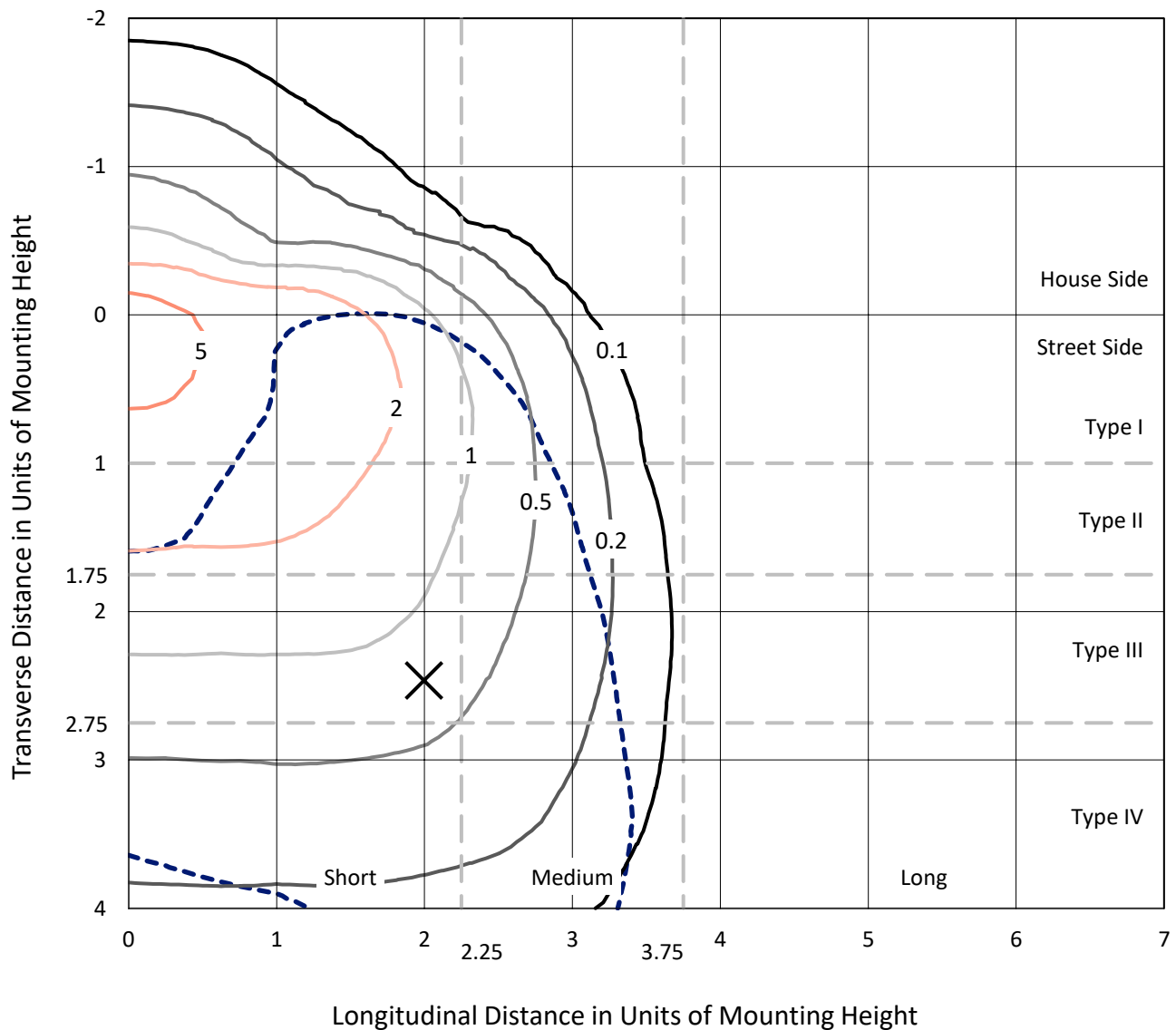
Lumens per Lamp: N/A
Luminaire Lumens: 9005.4 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
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

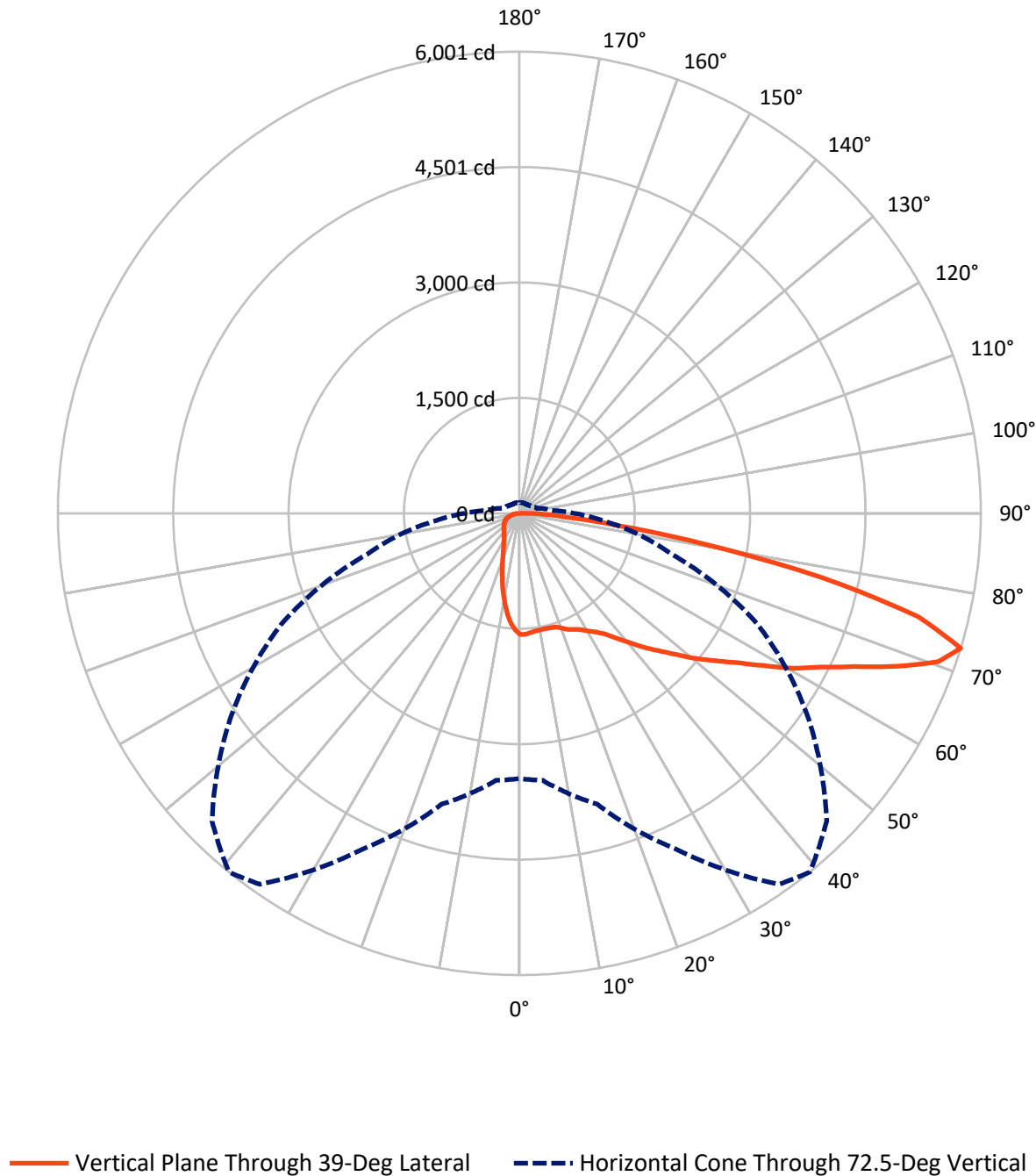
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 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	1338.4	0.0	1338.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	7667.0	0.0	7667.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	9005.4	0.0	9005.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.5
10°-20°	355.5	3.9
20°-30°	541.6	6.0
30°-40°	792.3	8.8
40°-50°	1213.0	13.5
50°-60°	1779.0	19.8
60°-70°	2268.9	25.2
70°-80°	1639.3	18.2
80°-90°	276.5	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°	9005.4	100.0
0°-180°	9005.4	100.0

Coefficient of Utilization



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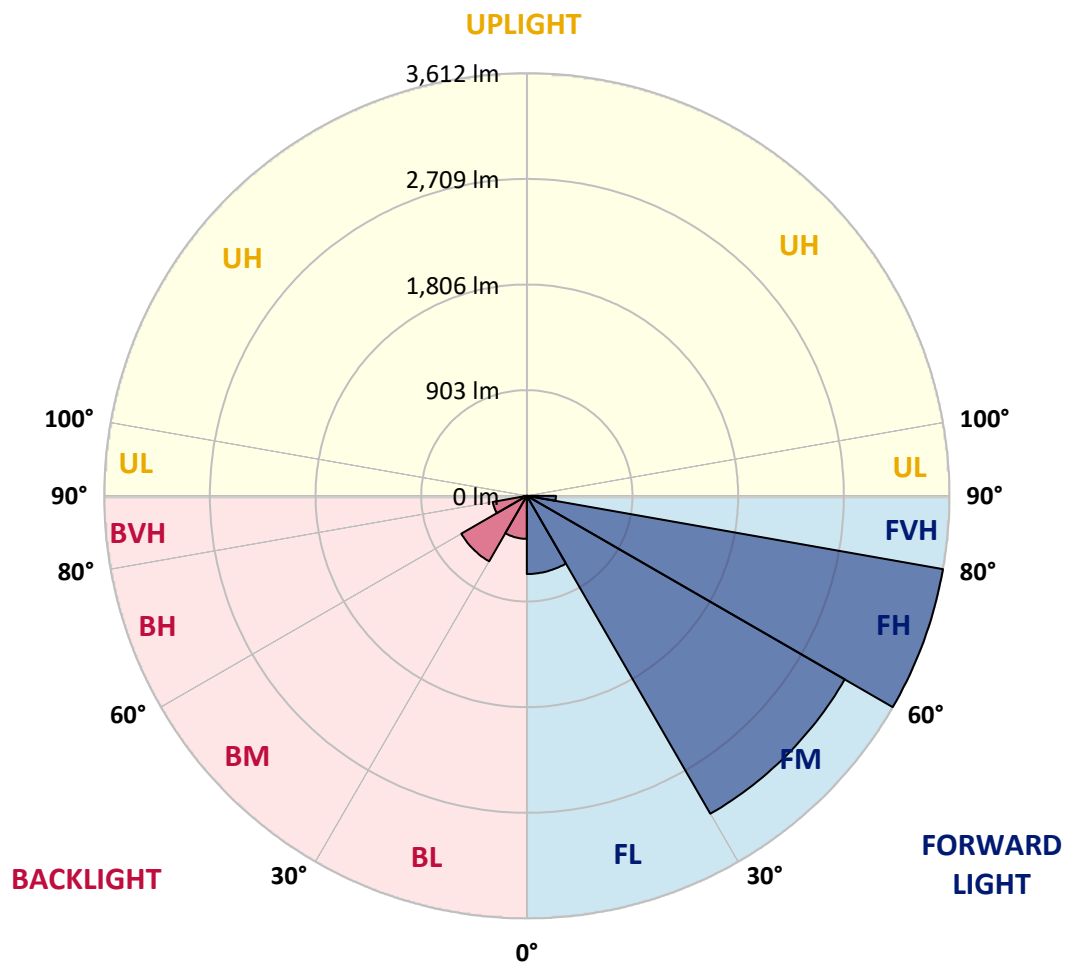
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.3	7.4			
FM	(30°-60°)	3137.7	34.8			
FH	(60°-80°)	3612.4	40.1			G2/5000
FVH	(80°-90°)	248.5	2.8			G3/500
BL	(0°-30°)	368.1	4.1	B1/500		
BM	(30°-60°)	646.6	7.2	B1/1000		
BH	(60°-80°)	295.7	3.3	B1/500		G1/500
BVH	(80°-90°)	28.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
2.5°	1600.0	1603.4	1596.6	1589.9	1586.5	1573.0	1586.5	1579.7	1573.0	1573.0	1573.0
5°	1579.7	1583.1	1583.1	1576.3	1579.7	1556.0	1552.7	1556.0	1545.9	1539.1	1535.7
7.5°	1549.3	1556.0	1569.6	1566.2	1552.7	1542.5	1545.9	1542.5	1525.6	1515.4	1488.4
10°	1525.6	1532.4	1539.1	1545.9	1542.5	1539.1	1535.7	1522.2	1518.8	1495.2	1468.1
12.5°	1501.9	1501.9	1505.3	1532.4	1535.7	1535.7	1515.4	1515.4	1505.3	1501.9	1461.3
15°	1478.2	1488.4	1515.4	1522.2	1535.7	1542.5	1532.4	1532.4	1515.4	1491.8	1461.3
17.5°	1485.0	1501.9	1529.0	1545.9	1552.7	1552.7	1566.2	1556.0	1532.4	1518.8	1488.4
20°	1518.8	1522.2	1556.0	1586.5	1593.3	1593.3	1579.7	1569.6	1552.7	1529.0	1488.4
22.5°	1539.1	1562.8	1603.4	1620.3	1640.6	1640.6	1623.7	1600.0	1576.3	1552.7	1508.7
25°	1627.1	1630.5	1647.4	1674.4	1684.6	1671.1	1654.1	1627.1	1596.6	1573.0	1532.4
27.5°	1688.0	1704.9	1725.2	1738.7	1721.8	1711.6	1698.1	1667.7	1644.0	1623.7	1566.2
30°	1799.6	1779.3	1792.8	1799.6	1769.2	1775.9	1738.7	1711.6	1684.6	1684.6	1620.3
32.5°	1867.2	1884.2	1870.6	1867.2	1843.6	1840.2	1816.5	1786.1	1769.2	1789.4	1701.5
35°	1985.6	1975.5	1975.5	1972.1	1945.1	1928.1	1928.1	1874.0	1890.9	1934.9	1826.7
37.5°	2046.5	2043.2	2063.4	2080.4	2053.3	2063.4	2053.3	2029.6	2036.4	2114.2	1982.3
40°	2107.4	2131.1	2171.7	2178.5	2195.4	2208.9	2202.1	2198.8	2225.8	2351.0	2192.0
42.5°	2164.9	2185.2	2246.1	2300.2	2340.8	2384.8	2388.2	2388.2	2476.1	2655.4	2445.7
45°	2239.3	2256.3	2340.8	2449.1	2516.7	2547.2	2574.2	2604.7	2723.1	2936.2	2716.3
47.5°	2340.8	2354.4	2455.8	2591.1	2723.1	2740.0	2794.1	2827.9	3007.2	3223.7	2993.7
50°	2486.3	2476.1	2557.3	2753.5	2882.1	2963.2	3041.0	3101.9	3277.8	3514.6	3210.2
52.5°	2604.7	2604.7	2665.6	2926.0	3101.9	3179.7	3260.9	3345.5	3548.5	3805.5	3386.1
55°	2807.6	2787.3	2824.6	3095.2	3348.9	3423.3	3578.9	3649.9	3846.1	4022.0	3534.9
57.5°	2946.3	2956.5	3000.5	3318.4	3639.8	3731.1	3886.7	3937.5	4110.0	4248.7	3643.2
60°	3129.0	3095.2	3189.9	3565.4	3961.1	4089.7	4218.2	4248.7	4377.2	4394.1	3693.9
62.5°	3304.9	3298.1	3379.3	3812.3	4306.2	4397.5	4529.4	4563.3	4617.4	4509.1	3622.9
65°	3413.1	3457.1	3609.3	4082.9	4698.6	4800.0	4932.0	4864.3	4803.4	4407.7	3274.5
67.5°	3562.0	3582.3	3815.7	4377.2	5151.9	5304.1	5419.1	5151.9	4698.6	3991.6	2756.9
70°	3595.8	3649.9	3954.4	4685.0	5618.7	5774.3	5781.0	5053.8	4316.3	3247.4	1999.2
72.5°	3447.0	3484.2	3913.8	4813.6	5885.9	6000.9	5652.5	4570.0	3419.9	2046.5	1089.2
75°	2899.0	3003.8	3406.4	4417.8	5395.4	5351.4	4789.9	3487.6	2053.3	906.6	460.0
77.5°	2019.5	2022.9	2442.3	3213.6	4038.9	4028.8	3416.5	2022.9	879.5	365.3	270.6
80°	896.4	960.7	1214.4	1731.9	2452.5	2452.5	1992.4	1004.7	439.8	236.8	186.0
82.5°	527.7	548.0	649.5	808.5	1194.1	1258.4	953.9	669.8	301.1	148.8	115.0
85°	389.0	422.8	483.7	487.1	564.9	575.1	527.7	581.8	206.3	81.2	94.7
87.5°	290.9	311.2	385.6	321.4	301.1	284.1	324.7	595.4	77.8	40.6	30.4
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°	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3	1576.3
2.5°	1559.4	1559.4	1552.7	1539.1	1539.1	1512.1	1518.8	1525.6	1508.7	1508.7	1512.1
5°	1535.7	1522.2	1505.3	1485.0	1471.5	1434.3	1427.5	1403.8	1400.4	1393.7	1383.5
7.5°	1488.4	1468.1	1437.6	1407.2	1363.2	1329.4	1288.8	1255.0	1241.5	1231.3	1227.9
10°	1444.4	1441.0	1390.3	1329.4	1261.7	1197.5	1136.6	1092.6	1065.6	1048.6	1045.3
12.5°	1444.4	1417.4	1346.3	1261.7	1163.6	1068.9	991.1	930.2	893.0	866.0	855.8
15°	1437.6	1410.6	1315.9	1187.3	1075.7	947.2	838.9	774.6	720.5	693.5	696.8
17.5°	1444.4	1403.8	1271.9	1133.2	977.6	838.9	710.4	632.6	578.4	558.1	554.8
20°	1447.8	1397.1	1238.1	1058.8	876.1	720.5	598.7	524.3	483.7	470.2	470.2
22.5°	1441.0	1376.8	1187.3	970.8	788.2	622.4	520.9	456.7	429.6	412.7	419.5
25°	1471.5	1373.4	1140.0	896.4	686.7	541.2	463.4	416.1	399.2	389.0	392.4
27.5°	1478.2	1373.4	1102.8	811.8	598.7	480.3	419.5	389.0	375.5	368.7	365.3
30°	1505.3	1380.1	1058.8	727.3	527.7	433.0	385.6	368.7	358.6	355.2	355.2
32.5°	1579.7	1400.4	1011.4	656.2	466.8	392.4	361.9	348.4	341.7	338.3	341.7
35°	1667.7	1454.6	960.7	581.8	422.8	365.3	341.7	331.5	328.1	328.1	328.1
37.5°	1803.0	1535.7	916.7	520.9	385.6	338.3	321.4	318.0	314.6	318.0	318.0
40°	1958.6	1623.7	876.1	473.6	358.6	321.4	304.4	304.4	301.1	304.4	307.8
42.5°	2137.9	1731.9	835.5	426.2	334.9	307.8	294.3	290.9	287.5	294.3	297.7
45°	2384.8	1880.8	808.5	399.2	318.0	294.3	280.8	280.8	277.4	277.4	284.1
47.5°	2591.1	2022.9	808.5	372.1	307.8	284.1	270.6	270.6	263.9	267.2	267.2
50°	2763.7	2144.6	825.4	365.3	294.3	274.0	263.9	257.1	253.7	253.7	253.7
52.5°	2878.7	2219.1	838.9	358.6	287.5	260.5	253.7	250.3	243.6	240.2	243.6
55°	2993.7	2269.8	842.3	358.6	277.4	246.9	240.2	240.2	233.4	230.0	230.0
57.5°	3037.7	2249.5	794.9	351.8	270.6	236.8	230.0	226.6	223.3	219.9	219.9
60°	3017.4	2175.1	690.1	334.9	263.9	230.0	216.5	216.5	216.5	209.7	213.1
62.5°	2878.7	1921.4	554.8	307.8	253.7	216.5	203.0	209.7	209.7	206.3	206.3
65°	2513.3	1586.5	449.9	284.1	240.2	206.3	192.8	203.0	206.3	203.0	199.6
67.5°	2009.3	1221.2	372.1	257.1	223.3	189.4	179.3	189.4	192.8	189.4	189.4
70°	1380.1	788.2	301.1	230.0	199.6	172.5	162.4	169.1	169.1	172.5	172.5
72.5°	713.7	426.2	246.9	196.2	172.5	155.6	145.5	145.5	142.1	142.1	142.1
75°	355.2	290.9	206.3	165.8	145.5	131.9	125.2	118.4	118.4	118.4	118.4
77.5°	246.9	223.3	169.1	131.9	118.4	108.2	108.2	98.1	98.1	98.1	98.1
80°	186.0	175.9	128.5	101.5	91.3	84.6	84.6	81.2	81.2	77.8	77.8
82.5°	131.9	142.1	98.1	74.4	67.7	64.3	64.3	60.9	60.9	54.1	54.1
85°	104.9	118.4	74.4	54.1	50.7	44.0	44.0	40.6	40.6	37.2	33.8
87.5°	30.4	64.3	30.4	20.3	20.3	20.3	20.3	16.9	16.9	13.5	13.5
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)