

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: P675784

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

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675784
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

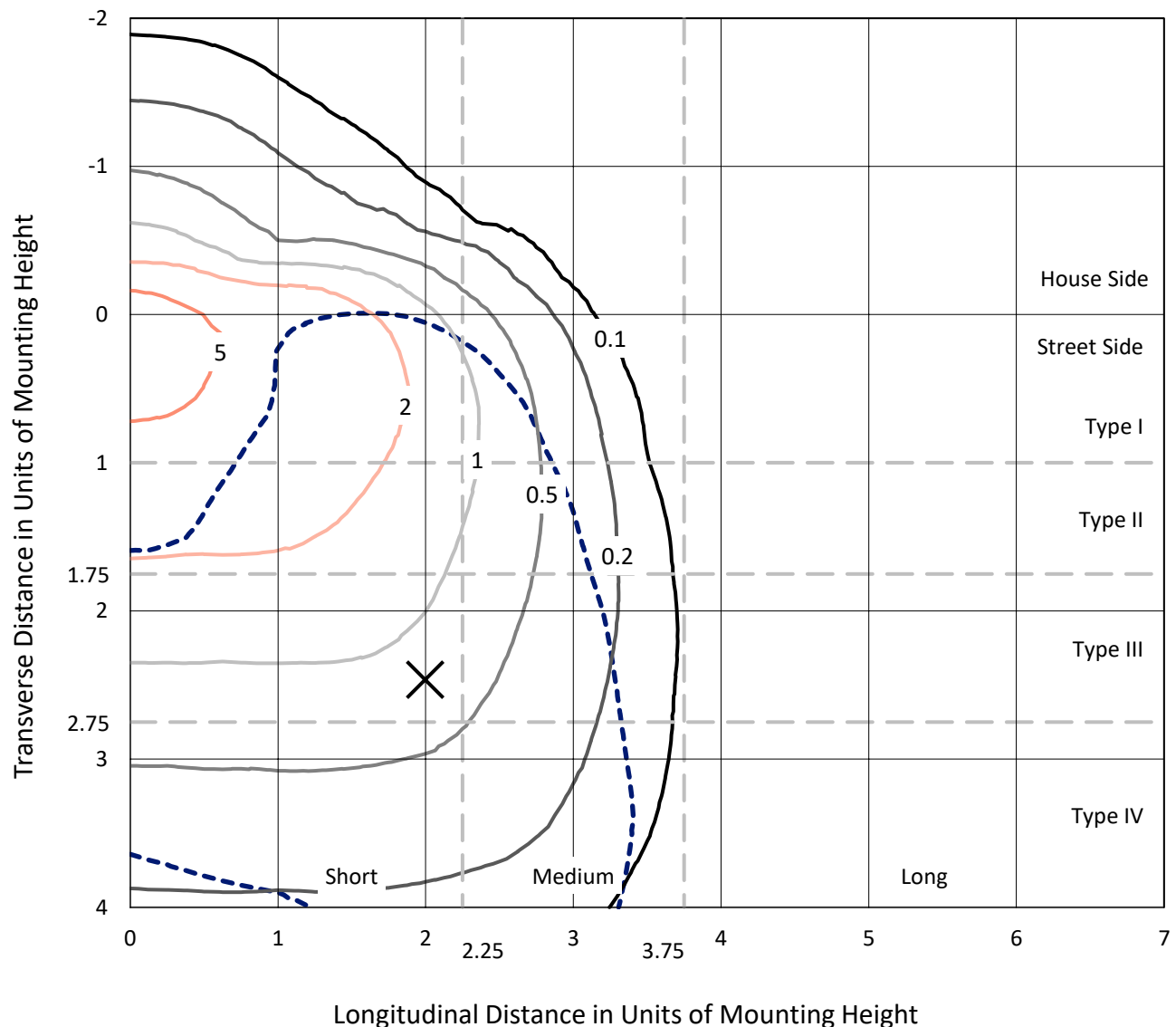
Lumens per Lamp: N/A
Luminaire Lumens: 9536.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

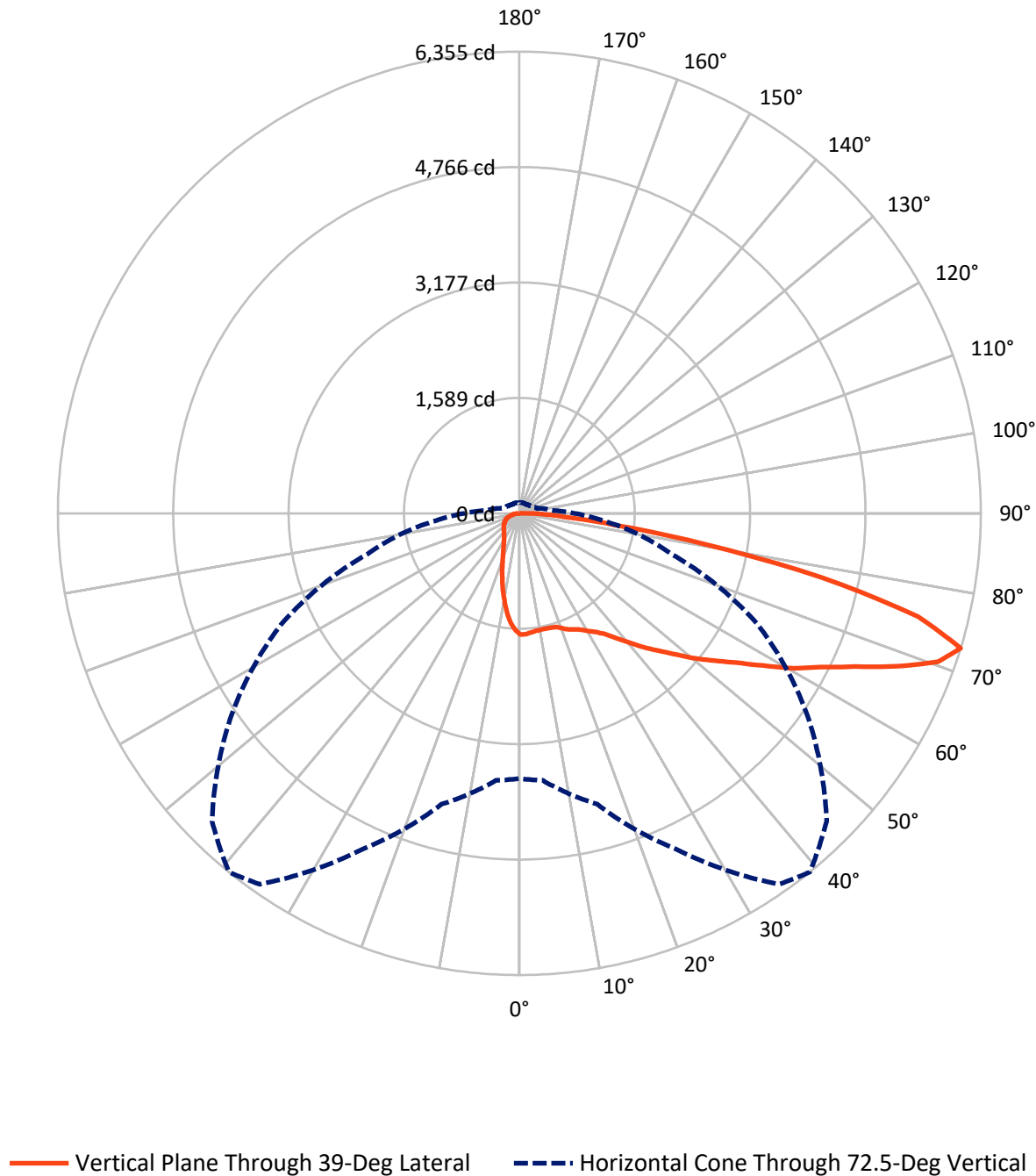
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 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	1417.3	0.0	1417.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	8119.2	0.0	8119.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	9536.5	0.0	9536.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	1.5
10°-20°	376.5	3.9
20°-30°	573.6	6.0
30°-40°	839.0	8.8
40°-50°	1284.5	13.5
50°-60°	1883.9	19.8
60°-70°	2402.7	25.2
70°-80°	1736.0	18.2
80°-90°	292.8	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°	9536.5	100.0
0°-180°	9536.5	100.0

Coefficient of Utilization



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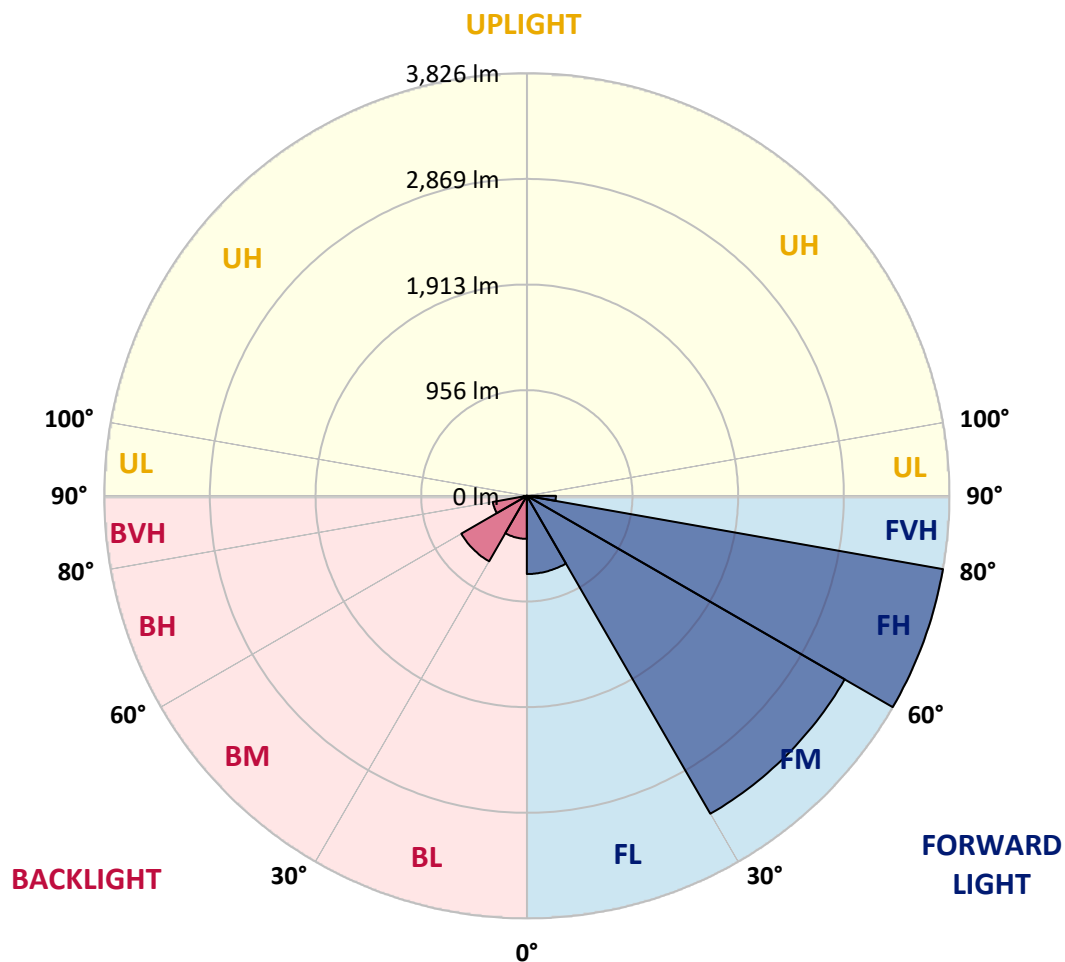
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.7	7.4			
FM	(30°-60°)	3322.8	34.8			
FH	(60°-80°)	3825.5	40.1			G2/5000
FVH	(80°-90°)	263.2	2.8			G3/500
BL	(0°-30°)	389.8	4.1	B1/500		
BM	(30°-60°)	684.7	7.2	B1/1000		
BH	(60°-80°)	313.2	3.3	B1/500		G1/500
BVH	(80°-90°)	29.7	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°	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3
2.5°	1694.4	1698.0	1690.8	1683.6	1680.1	1665.7	1680.1	1672.9	1665.7	1665.7	1665.7
5°	1672.9	1676.5	1676.5	1669.3	1672.9	1647.8	1644.2	1647.8	1637.1	1629.9	1626.3
7.5°	1640.7	1647.8	1662.1	1658.6	1644.2	1633.5	1637.1	1633.5	1615.6	1604.8	1576.2
10°	1615.6	1622.7	1629.9	1637.1	1633.5	1629.9	1626.3	1612.0	1608.4	1583.3	1554.7
12.5°	1590.5	1590.5	1594.1	1622.7	1626.3	1626.3	1604.8	1604.8	1594.1	1590.5	1547.5
15°	1565.4	1576.2	1604.8	1612.0	1626.3	1633.5	1622.7	1622.7	1604.8	1579.8	1547.5
17.5°	1572.6	1590.5	1619.2	1637.1	1644.2	1644.2	1658.6	1647.8	1622.7	1608.4	1576.2
20°	1608.4	1612.0	1647.8	1680.1	1687.2	1687.2	1672.9	1662.1	1644.2	1619.2	1576.2
22.5°	1629.9	1655.0	1698.0	1715.9	1737.4	1737.4	1719.5	1694.4	1669.3	1644.2	1597.7
25°	1723.0	1726.6	1744.5	1773.2	1783.9	1769.6	1751.7	1723.0	1690.8	1665.7	1622.7
27.5°	1787.5	1805.4	1826.9	1841.3	1823.3	1812.6	1798.3	1766.0	1741.0	1719.5	1658.6
30°	1905.7	1884.2	1898.6	1905.7	1873.5	1880.7	1841.3	1812.6	1783.9	1783.9	1715.9
32.5°	1977.4	1995.3	1981.0	1977.4	1952.3	1948.7	1923.6	1891.4	1873.5	1895.0	1801.9
35°	2102.8	2092.0	2092.0	2088.4	2059.8	2041.9	2041.9	1984.5	2002.5	2049.0	1934.4
37.5°	2167.2	2163.7	2185.1	2203.1	2174.4	2185.1	2174.4	2149.3	2156.5	2238.9	2099.2
40°	2231.7	2256.8	2299.8	2306.9	2324.9	2339.2	2332.0	2328.4	2357.1	2489.6	2321.3
42.5°	2292.6	2314.1	2378.6	2435.9	2478.9	2525.5	2529.0	2529.0	2622.2	2812.0	2589.9
45°	2371.4	2389.3	2478.9	2593.5	2665.2	2697.4	2726.1	2758.3	2883.7	3109.4	2876.5
47.5°	2478.9	2493.2	2600.7	2744.0	2883.7	2901.6	2958.9	2994.7	3184.6	3413.8	3170.3
50°	2632.9	2622.2	2708.2	2915.9	3052.0	3138.0	3220.4	3284.9	3471.2	3721.9	3399.5
52.5°	2758.3	2758.3	2822.8	3098.6	3284.9	3367.3	3453.3	3542.8	3757.7	4030.0	3585.8
55°	2973.2	2951.7	2991.1	3277.7	3546.4	3625.2	3790.0	3865.2	4073.0	4259.3	3743.4
57.5°	3120.1	3130.9	3177.4	3514.2	3854.5	3951.2	4116.0	4169.7	4352.4	4499.3	3858.0
60°	3313.5	3277.7	3378.0	3775.7	4194.8	4330.9	4467.0	4499.3	4635.4	4653.3	3911.8
62.5°	3499.8	3492.7	3578.6	4037.2	4560.2	4656.9	4796.6	4832.4	4889.7	4775.1	3836.5
65°	3614.5	3661.0	3822.2	4323.7	4975.7	5083.2	5222.9	5151.2	5086.7	4667.6	3467.6
67.5°	3772.1	3793.6	4040.7	4635.4	5455.7	5616.9	5738.7	5455.7	4975.7	4227.0	2919.5
70°	3807.9	3865.2	4187.6	4961.4	5950.1	6114.8	6122.0	5351.8	4570.9	3438.9	2117.1
72.5°	3650.3	3689.7	4144.6	5097.5	6233.0	6354.8	5985.9	4839.6	3621.6	2167.2	1153.5
75°	3070.0	3181.0	3607.3	4678.4	5713.6	5667.1	5072.4	3693.3	2174.4	960.0	487.2
77.5°	2138.6	2142.2	2586.4	3403.1	4277.2	4266.4	3618.0	2142.2	931.4	386.9	286.6
80°	949.3	1017.3	1286.0	1834.1	2597.1	2597.1	2109.9	1063.9	465.7	250.8	197.0
82.5°	558.8	580.3	687.8	856.1	1264.5	1332.6	1010.2	709.3	318.8	157.6	121.8
85°	412.0	447.8	512.3	515.8	598.2	609.0	558.8	616.1	218.5	86.0	100.3
87.5°	308.1	329.6	408.4	340.3	318.8	300.9	343.9	630.5	82.4	43.0	32.2
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°	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3	1669.3
2.5°	1651.4	1651.4	1644.2	1629.9	1629.9	1601.2	1608.4	1615.6	1597.7	1597.7	1601.2
5°	1626.3	1612.0	1594.1	1572.6	1558.3	1518.9	1511.7	1486.6	1483.0	1475.9	1465.1
7.5°	1576.2	1554.7	1522.4	1490.2	1443.6	1407.8	1364.8	1329.0	1314.7	1303.9	1300.3
10°	1529.6	1526.0	1472.3	1407.8	1336.2	1268.1	1203.6	1157.1	1128.4	1110.5	1106.9
12.5°	1529.6	1500.9	1425.7	1336.2	1232.3	1132.0	1049.6	985.1	945.7	917.0	906.3
15°	1522.4	1493.8	1393.5	1257.4	1139.1	1003.0	888.4	820.3	763.0	734.4	737.9
17.5°	1529.6	1486.6	1346.9	1200.0	1035.3	888.4	752.3	669.9	612.6	591.1	587.5
20°	1533.2	1479.5	1311.1	1121.2	927.8	763.0	634.1	555.2	512.3	497.9	497.9
22.5°	1526.0	1458.0	1257.4	1028.1	834.7	659.1	551.7	483.6	454.9	437.0	444.2
25°	1558.3	1454.4	1207.2	949.3	727.2	573.2	490.8	440.6	422.7	412.0	415.5
27.5°	1565.4	1454.4	1167.8	859.7	634.1	508.7	444.2	412.0	397.6	390.5	386.9
30°	1594.1	1461.5	1121.2	770.2	558.8	458.5	408.4	390.5	379.7	376.1	376.1
32.5°	1672.9	1483.0	1071.1	694.9	494.3	415.5	383.3	369.0	361.8	358.2	361.8
35°	1766.0	1540.4	1017.3	616.1	447.8	386.9	361.8	351.1	347.5	347.5	347.5
37.5°	1909.3	1626.3	970.8	551.7	408.4	358.2	340.3	336.7	333.1	336.7	336.7
40°	2074.1	1719.5	927.8	501.5	379.7	340.3	322.4	322.4	318.8	322.4	326.0
42.5°	2264.0	1834.1	884.8	451.4	354.6	326.0	311.7	308.1	304.5	311.7	315.2
45°	2525.5	1991.7	856.1	422.7	336.7	311.7	297.3	297.3	293.7	293.7	300.9
47.5°	2744.0	2142.2	856.1	394.0	326.0	300.9	286.6	286.6	279.4	283.0	283.0
50°	2926.7	2271.1	874.1	386.9	311.7	290.2	279.4	272.2	268.7	268.7	268.7
52.5°	3048.5	2349.9	888.4	379.7	304.5	275.8	268.7	265.1	257.9	254.3	257.9
55°	3170.3	2403.7	892.0	379.7	293.7	261.5	254.3	254.3	247.2	243.6	243.6
57.5°	3216.8	2382.2	841.8	372.6	286.6	250.8	243.6	240.0	236.4	232.8	232.8
60°	3195.3	2303.4	730.8	354.6	279.4	243.6	229.3	229.3	229.3	222.1	225.7
62.5°	3048.5	2034.7	587.5	326.0	268.7	229.3	214.9	222.1	222.1	218.5	218.5
65°	2661.6	1680.1	476.4	300.9	254.3	218.5	204.2	214.9	218.5	214.9	211.4
67.5°	2127.8	1293.2	394.0	272.2	236.4	200.6	189.9	200.6	204.2	200.6	200.6
70°	1461.5	834.7	318.8	243.6	211.4	182.7	171.9	179.1	179.1	182.7	182.7
72.5°	755.8	451.4	261.5	207.8	182.7	164.8	154.0	154.0	150.5	150.5	150.5
75°	376.1	308.1	218.5	175.5	154.0	139.7	132.5	125.4	125.4	125.4	125.4
77.5°	261.5	236.4	179.1	139.7	125.4	114.6	114.6	103.9	103.9	103.9	103.9
80°	197.0	186.3	136.1	107.5	96.7	89.6	89.6	86.0	86.0	82.4	82.4
82.5°	139.7	150.5	103.9	78.8	71.6	68.1	68.1	64.5	64.5	57.3	57.3
85°	111.0	125.4	78.8	57.3	53.7	46.6	46.6	43.0	43.0	39.4	35.8
87.5°	32.2	68.1	32.2	21.5	21.5	21.5	21.5	17.9	17.9	14.3	14.3
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)