

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: P675452

Luminaire Tested: **CCW-SA-2D-827-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675452
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

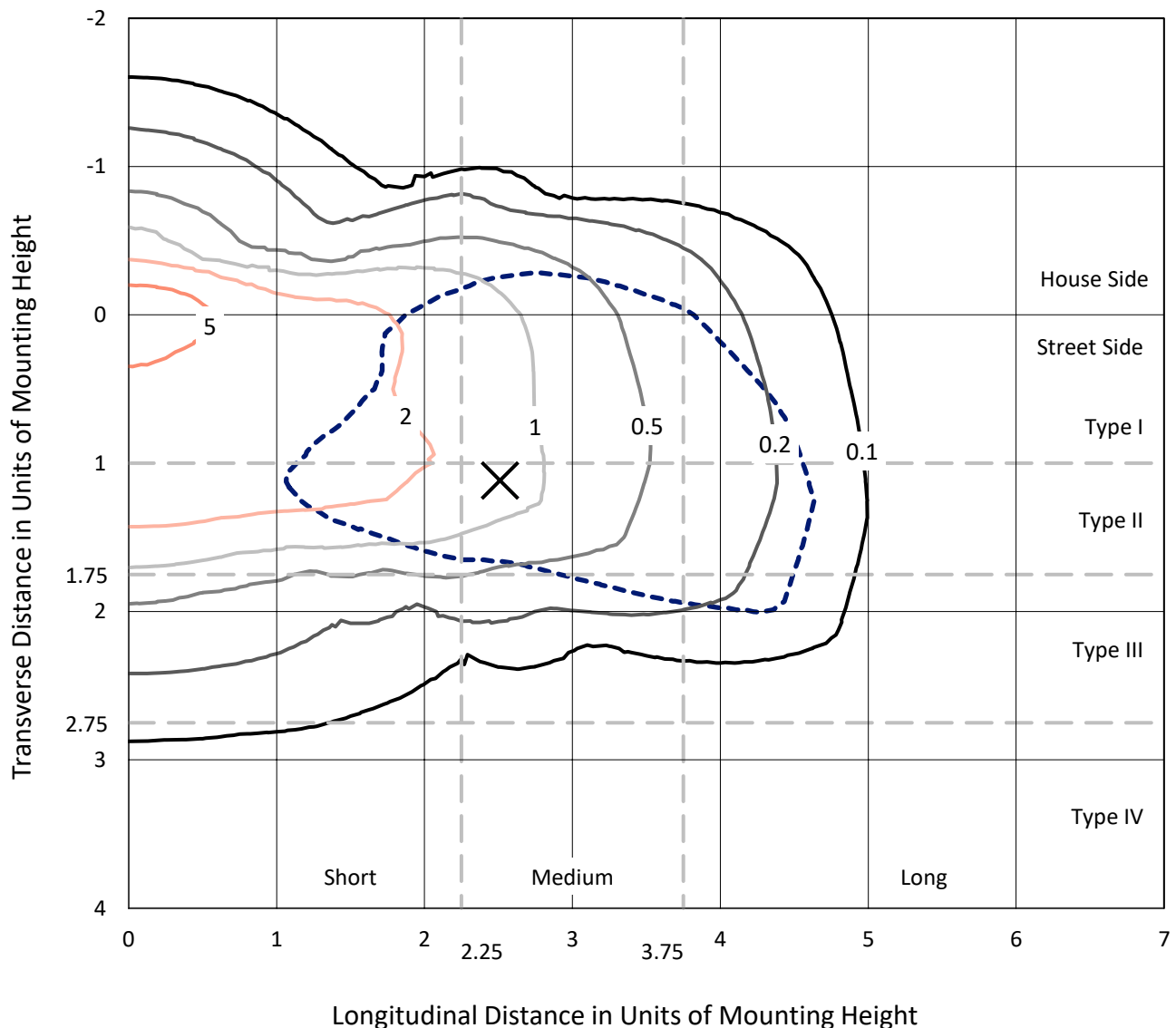
Lumens per Lamp: N/A
Luminaire Lumens: 8113.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

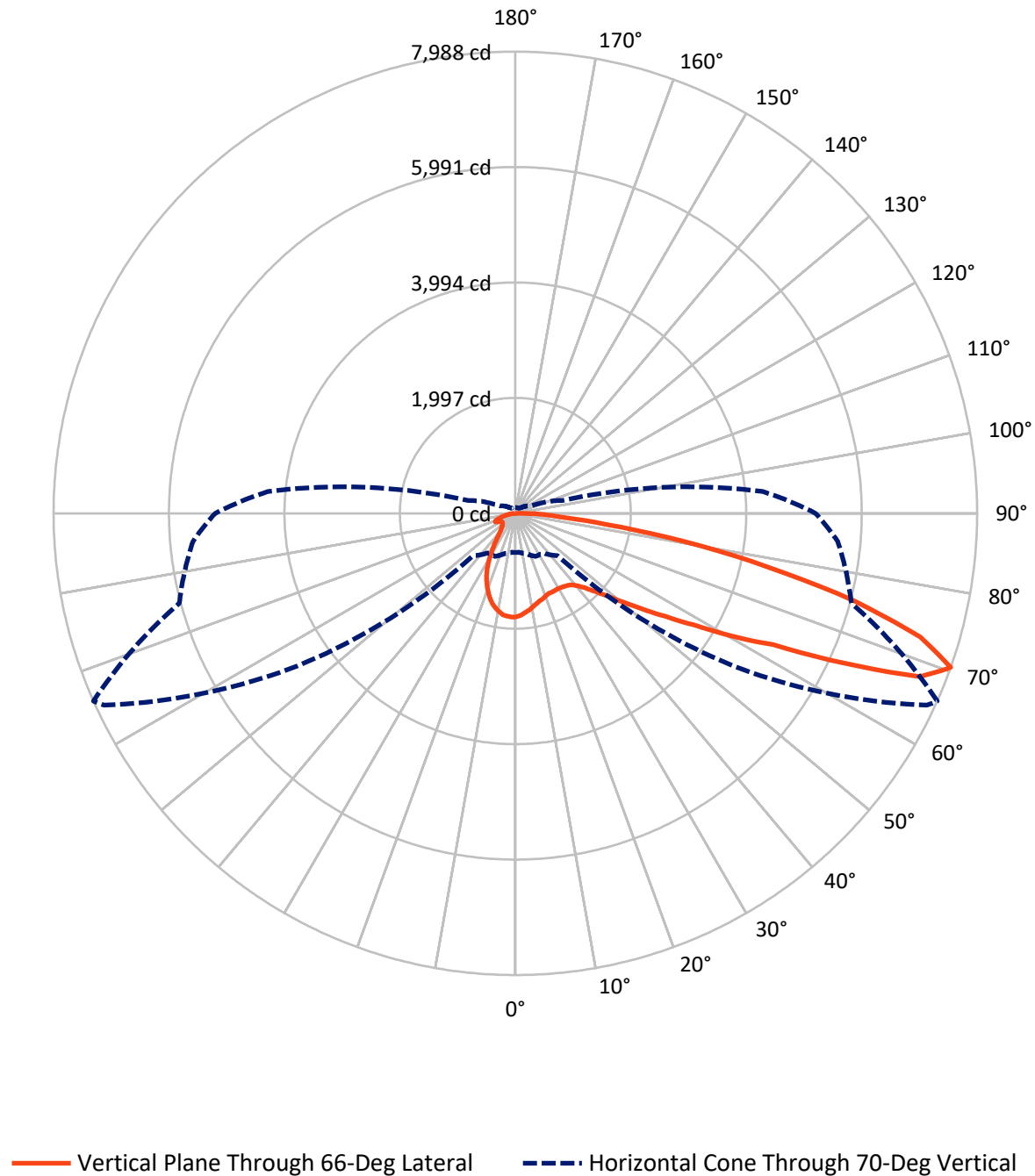
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1660.8	0.0	1660.8
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	6453.1	0.0	6453.1
	% Fixture	79.5	0.0	79.5
Total	Lumens	8113.9	0.0	8113.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.0
10°-20°	390.2	4.8
20°-30°	535.9	6.6
30°-40°	718.5	8.9
40°-50°	1042.5	12.8
50°-60°	1584.6	19.5
60°-70°	1957.0	24.1
70°-80°	1455.3	17.9
80°-90°	271.4	3.3
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°	8113.9	100.0
0°-180°	8113.9	100.0

Coefficient of Utilization



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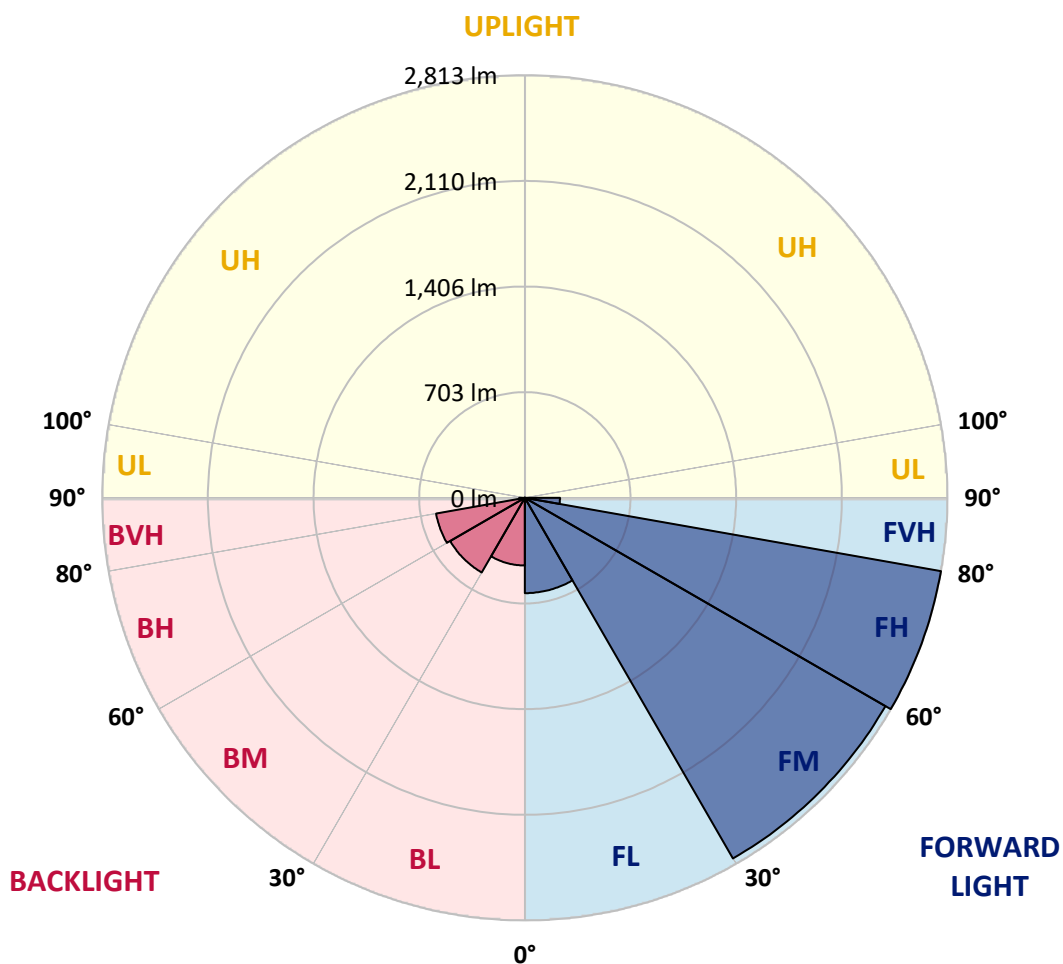
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.5	7.8			
FM	(30°-60°)	2771.8	34.2			
FH	(60°-80°)	2812.8	34.7			G2/5000
FVH	(80°-90°)	234.0	2.9			G3/500
BL	(0°-30°)	450.1	5.5	B1/500		
BM	(30°-60°)	573.7	7.1	B1/1000		
BH	(60°-80°)	599.5	7.4	B2/1000		G2/1000
BVH	(80°-90°)	37.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1705.1	1714.1	1717.2	1723.2	1738.3	1750.4	1768.5	1777.5	1768.5	1780.5	1780.5
5°	1587.4	1575.3	1605.5	1617.6	1635.7	1659.8	1702.1	1735.3	1726.2	1762.4	1792.6
7.5°	1487.8	1487.8	1496.9	1524.0	1545.1	1581.4	1626.6	1677.9	1693.0	1741.3	1786.6
10°	1397.3	1409.3	1409.3	1451.6	1463.7	1505.9	1581.4	1644.7	1647.7	1729.2	1792.6
12.5°	1349.0	1342.9	1373.1	1385.2	1421.4	1463.7	1524.0	1602.5	1605.5	1693.0	1780.5
15°	1309.7	1315.8	1330.9	1361.1	1394.2	1427.4	1484.8	1557.2	1572.3	1674.9	1774.5
17.5°	1312.8	1315.8	1315.8	1336.9	1364.1	1403.3	1457.6	1542.1	1551.2	1650.8	1765.4
20°	1330.9	1318.8	1327.9	1336.9	1355.0	1391.2	1436.5	1508.9	1518.0	1647.7	1786.6
22.5°	1370.1	1361.1	1358.0	1355.0	1352.0	1373.1	1430.5	1490.8	1499.9	1632.7	1795.6
25°	1433.5	1430.5	1409.3	1388.2	1373.1	1373.1	1418.4	1505.9	1502.9	1632.7	1801.7
27.5°	1508.9	1508.9	1505.9	1466.7	1421.4	1397.3	1427.4	1499.9	1496.9	1632.7	1816.7
30°	1611.5	1611.5	1602.5	1566.3	1484.8	1415.4	1433.5	1493.8	1502.9	1620.6	1804.7
32.5°	1723.2	1720.2	1729.2	1696.0	1611.5	1499.9	1469.7	1505.9	1515.0	1632.7	1807.7
35°	1804.7	1822.8	1853.0	1822.8	1738.3	1587.4	1521.0	1530.1	1536.1	1635.7	1819.8
37.5°	1898.2	1919.4	1961.6	1985.7	1895.2	1720.2	1602.5	1569.3	1569.3	1674.9	1822.8
40°	2034.0	2012.9	2085.3	2127.6	2091.4	1883.1	1729.2	1641.7	1644.7	1726.2	1862.0
42.5°	2133.6	2154.7	2230.2	2305.6	2260.4	2082.3	1868.1	1759.4	1759.4	1801.7	1922.4
45°	2245.3	2269.4	2375.1	2465.6	2498.8	2320.7	2058.2	1928.4	1922.4	1949.5	2031.0
47.5°	2369.0	2402.2	2522.9	2628.6	2716.1	2568.2	2302.6	2133.6	2130.6	2151.7	2212.1
50°	2510.9	2522.9	2622.5	2815.7	2990.7	2897.1	2601.4	2423.3	2408.2	2417.3	2498.8
52.5°	2553.1	2544.1	2658.7	2867.0	3186.9	3298.5	3008.8	2752.3	2746.2	2725.1	2830.7
55°	2399.2	2429.4	2541.0	2806.6	3346.8	3772.3	3455.4	3201.9	3147.6	3090.3	3217.0
57.5°	2091.4	2094.4	2221.1	2535.0	3223.1	4164.6	4212.9	3642.6	3645.6	3491.7	3636.5
60°	1626.6	1617.6	1717.2	2000.8	2870.0	4285.4	5039.8	4345.7	4315.5	3893.0	4025.8
62.5°	1173.9	1155.8	1177.0	1342.9	2145.7	4101.3	5851.6	5133.4	5006.6	4303.5	4406.1
65°	965.7	974.8	983.8	992.9	1204.1	3383.0	6102.1	6419.0	6250.0	4783.3	4825.6
67.5°	799.7	805.8	845.0	899.3	893.3	1997.8	5812.4	7608.0	7544.6	5377.8	5187.7
70°	679.0	676.0	721.3	820.9	835.9	1038.1	4602.2	7852.5	7988.3	6017.6	5598.1
72.5°	543.2	549.2	588.5	721.3	820.9	875.2	2649.7	7327.4	7324.3	6509.5	5377.8
75°	389.3	389.3	443.6	597.5	793.7	866.1	1466.7	5948.2	6059.9	6117.2	4665.6
77.5°	256.5	268.6	310.8	446.6	745.4	848.0	929.5	4324.6	4463.4	4575.1	3570.1
80°	175.0	181.1	208.2	310.8	630.7	854.1	760.5	2909.2	2963.5	2525.9	1448.6
82.5°	105.6	108.6	138.8	217.3	452.7	811.8	715.2	1605.5	1572.3	763.5	416.5
85°	57.3	60.4	87.5	144.9	298.8	709.2	703.2	787.7	733.3	280.7	175.0
87.5°	21.1	21.1	39.2	72.4	172.0	485.9	612.6	467.8	437.6	141.8	81.5
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°	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1795.6	1795.6	1795.6	1795.6	1792.6	1780.5	1789.6	1786.6	1768.5	1771.5	1759.4
5°	1789.6	1804.7	1795.6	1783.6	1768.5	1732.2	1720.2	1711.1	1687.0	1677.9	1687.0
7.5°	1804.7	1792.6	1786.6	1765.4	1705.1	1671.9	1629.6	1578.3	1542.1	1533.1	1542.1
10°	1801.7	1801.7	1774.5	1714.1	1656.8	1560.2	1505.9	1415.4	1364.1	1349.0	1352.0
12.5°	1789.6	1798.6	1756.4	1659.8	1551.2	1433.5	1333.9	1237.3	1146.8	1110.6	1104.5
15°	1801.7	1792.6	1717.2	1593.4	1442.5	1279.6	1134.7	992.9	908.4	854.1	842.0
17.5°	1783.6	1774.5	1665.9	1502.9	1300.7	1092.5	911.4	757.5	673.0	651.9	651.9
20°	1804.7	1747.3	1605.5	1394.2	1152.8	887.2	682.0	567.4	546.2	546.2	552.3
22.5°	1801.7	1741.3	1554.2	1288.6	974.8	670.0	507.0	473.8	476.8	501.0	497.9
25°	1783.6	1729.2	1481.8	1170.9	787.7	504.0	419.5	410.4	431.6	458.7	455.7
27.5°	1780.5	1696.0	1415.4	1032.1	600.6	398.4	365.2	365.2	386.3	410.4	407.4
30°	1762.4	1668.9	1333.9	875.2	452.7	347.1	335.0	335.0	344.0	356.1	356.1
32.5°	1759.4	1632.7	1243.4	712.2	362.1	313.9	307.8	310.8	310.8	316.9	313.9
35°	1735.3	1584.4	1149.8	552.3	313.9	295.7	289.7	286.7	286.7	283.7	283.7
37.5°	1726.2	1554.2	1053.2	428.5	292.7	280.7	274.6	265.6	262.6	262.6	259.5
40°	1735.3	1524.0	959.7	347.1	274.6	268.6	259.5	247.5	244.4	244.4	244.4
42.5°	1768.5	1521.0	863.1	301.8	265.6	256.5	244.4	232.4	229.4	232.4	229.4
45°	1843.9	1545.1	769.6	280.7	253.5	244.4	229.4	220.3	217.3	220.3	220.3
47.5°	1967.6	1611.5	685.1	268.6	244.4	232.4	217.3	208.2	208.2	208.2	208.2
50°	2172.9	1738.3	603.6	259.5	238.4	223.3	208.2	196.2	193.1	193.1	196.2
52.5°	2480.7	1955.6	537.2	253.5	229.4	211.2	196.2	187.1	181.1	178.1	181.1
55°	2851.9	2272.4	516.1	247.5	217.3	202.2	187.1	175.0	169.0	169.0	166.0
57.5°	3250.2	2622.5	552.3	241.4	208.2	190.1	175.0	163.0	156.9	153.9	153.9
60°	3681.8	3036.0	685.1	238.4	199.2	178.1	163.0	153.9	144.9	141.8	141.8
62.5°	4074.1	3410.2	923.5	235.4	193.1	166.0	150.9	138.8	132.8	129.8	129.8
65°	4520.7	3826.6	1155.8	247.5	190.1	156.9	138.8	126.7	120.7	117.7	117.7
67.5°	4910.1	4188.8	1291.6	277.6	199.2	144.9	123.7	114.7	111.7	108.6	108.6
70°	5193.7	4300.4	866.1	304.8	214.3	135.8	111.7	105.6	99.6	99.6	99.6
72.5°	4813.5	3838.7	513.0	286.7	202.2	126.7	99.6	93.6	90.5	90.5	87.5
75°	4116.4	3268.3	395.3	232.4	163.0	108.6	87.5	81.5	78.5	78.5	75.4
77.5°	3039.0	2341.9	292.7	184.1	126.7	87.5	75.4	72.4	69.4	66.4	66.4
80°	1189.0	1026.1	199.2	135.8	93.6	69.4	63.4	60.4	57.3	54.3	54.3
82.5°	368.2	310.8	114.7	90.5	66.4	54.3	51.3	48.3	45.3	42.2	42.2
85°	159.9	153.9	75.4	57.3	45.3	36.2	36.2	33.2	30.2	27.2	27.2
87.5°	78.5	75.4	42.2	27.2	24.1	18.1	18.1	15.1	12.1	12.1	12.1
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)