

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: P675692

Luminaire Tested: **CCW-SA-1F-735-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675692
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

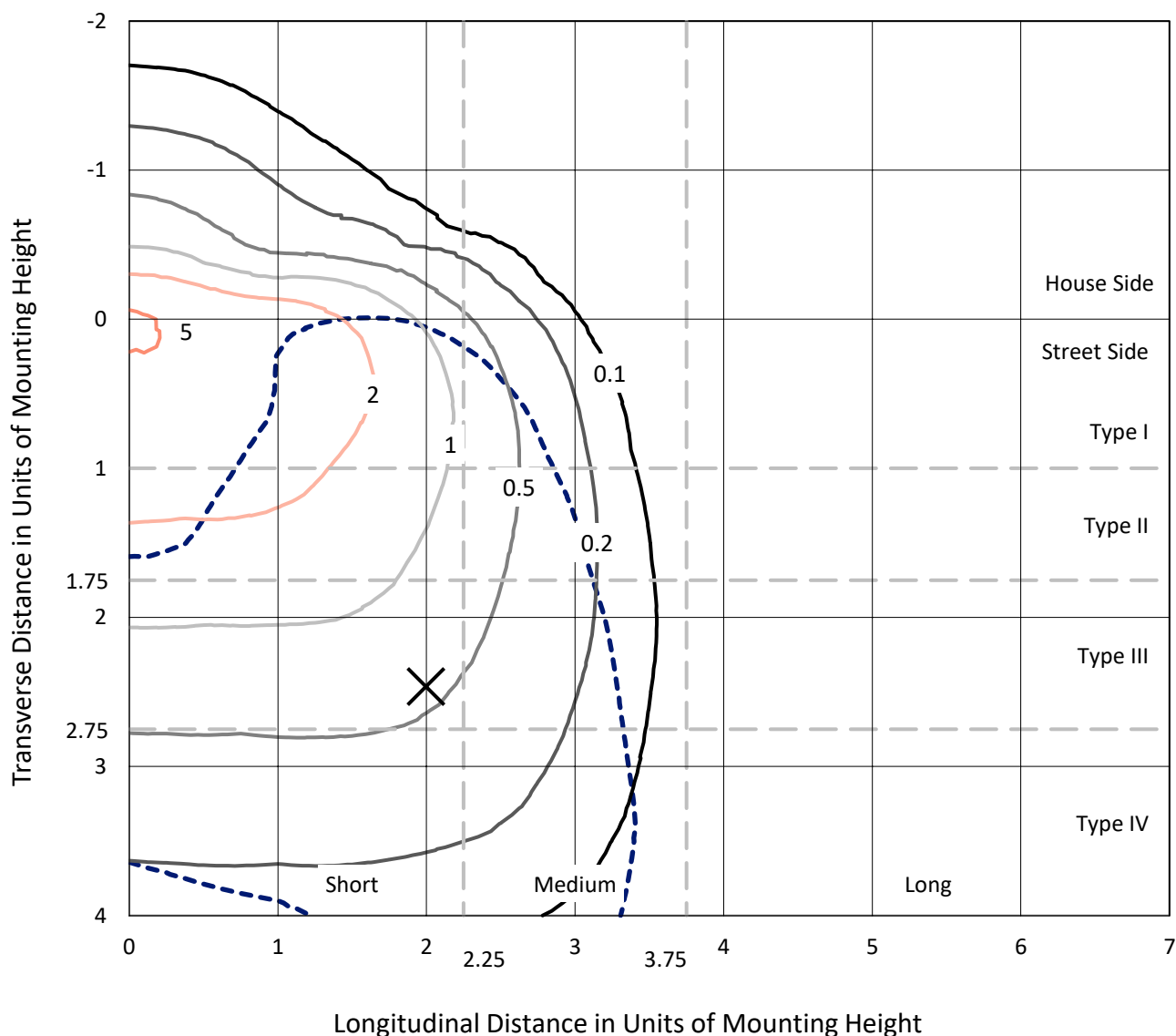
Lumens per Lamp: N/A
Luminaire Lumens: 7246.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

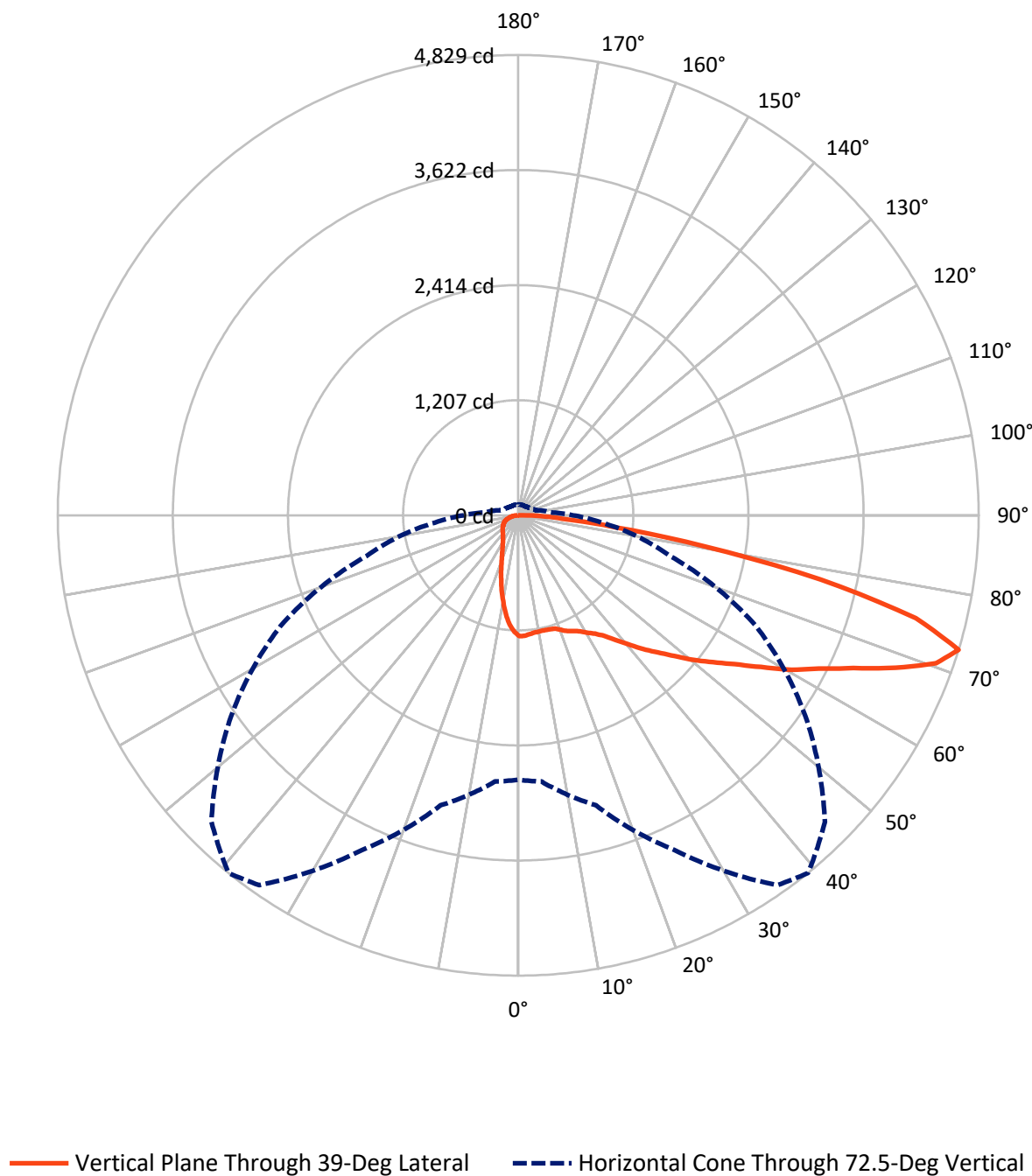
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 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	1077.0	0.0	1077.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6169.5	0.0	6169.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	7246.5	0.0	7246.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.5
10°-20°	286.1	3.9
20°-30°	435.8	6.0
30°-40°	637.5	8.8
40°-50°	976.1	13.5
50°-60°	1431.5	19.8
60°-70°	1825.7	25.2
70°-80°	1319.1	18.2
80°-90°	222.5	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°	7246.5	100.0
0°-180°	7246.5	100.0

Coefficient of Utilization



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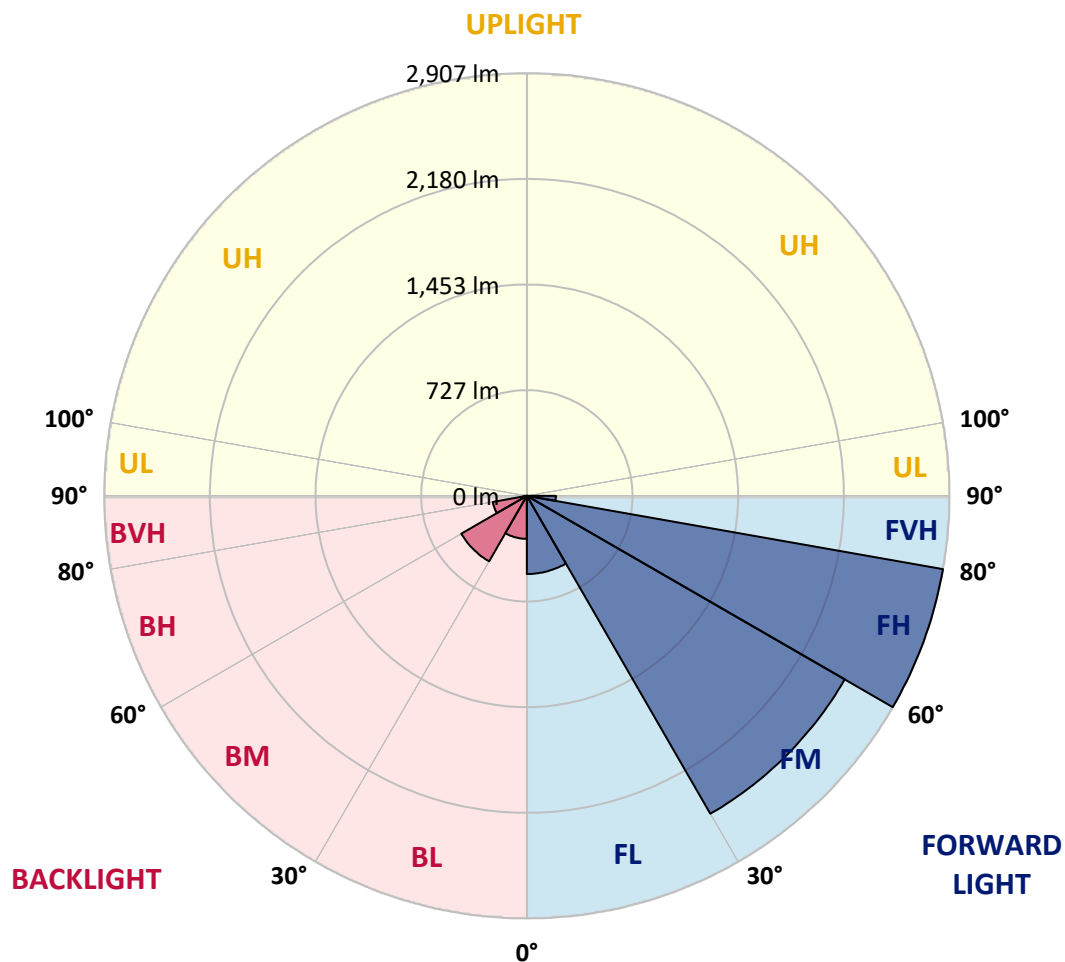
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.8	7.4			
FM	(30°-60°)	2524.9	34.8			
FH	(60°-80°)	2906.9	40.1			G2/5000
FVH	(80°-90°)	200.0	2.8			G2/225
BL	(0°-30°)	296.2	4.1	B1/500		
BM	(30°-60°)	520.3	7.2	B1/1000		
BH	(60°-80°)	238.0	3.3	B1/500		G1/500
BVH	(80°-90°)	22.5	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°	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5
2.5°	1287.5	1290.2	1284.8	1279.3	1276.6	1265.7	1276.6	1271.2	1265.7	1265.7	1265.7
5°	1271.2	1273.9	1273.9	1268.5	1271.2	1252.1	1249.4	1252.1	1244.0	1238.5	1235.8
7.5°	1246.7	1252.1	1263.0	1260.3	1249.4	1241.2	1244.0	1241.2	1227.6	1219.5	1197.7
10°	1227.6	1233.1	1238.5	1244.0	1241.2	1238.5	1235.8	1224.9	1222.2	1203.1	1181.3
12.5°	1208.6	1208.6	1211.3	1233.1	1235.8	1235.8	1219.5	1219.5	1211.3	1208.6	1175.9
15°	1189.5	1197.7	1219.5	1224.9	1235.8	1241.2	1233.1	1233.1	1219.5	1200.4	1175.9
17.5°	1195.0	1208.6	1230.3	1244.0	1249.4	1249.4	1260.3	1252.1	1233.1	1222.2	1197.7
20°	1222.2	1224.9	1252.1	1276.6	1282.1	1282.1	1271.2	1263.0	1249.4	1230.3	1197.7
22.5°	1238.5	1257.6	1290.2	1303.8	1320.2	1320.2	1306.6	1287.5	1268.5	1249.4	1214.0
25°	1309.3	1312.0	1325.6	1347.4	1355.6	1344.7	1331.1	1309.3	1284.8	1265.7	1233.1
27.5°	1358.3	1371.9	1388.2	1399.1	1385.5	1377.3	1366.4	1341.9	1322.9	1306.6	1260.3
30°	1448.1	1431.8	1442.7	1448.1	1423.6	1429.1	1399.1	1377.3	1355.6	1355.6	1303.8
32.5°	1502.5	1516.2	1505.3	1502.5	1483.5	1480.8	1461.7	1437.2	1423.6	1439.9	1369.2
35°	1597.8	1589.6	1589.6	1586.9	1565.2	1551.5	1551.5	1508.0	1521.6	1557.0	1469.9
37.5°	1646.8	1644.1	1660.4	1674.0	1652.3	1660.4	1652.3	1633.2	1638.6	1701.3	1595.1
40°	1695.8	1714.9	1747.5	1753.0	1766.6	1777.5	1772.0	1769.3	1791.1	1891.8	1763.9
42.5°	1742.1	1758.4	1807.4	1851.0	1883.6	1919.0	1921.7	1921.7	1992.5	2136.8	1968.0
45°	1802.0	1815.6	1883.6	1970.7	2025.2	2049.7	2071.4	2095.9	2191.2	2362.7	2185.8
47.5°	1883.6	1894.5	1976.2	2085.1	2191.2	2204.8	2248.4	2275.6	2419.9	2594.1	2409.0
50°	2000.7	1992.5	2057.8	2215.7	2319.1	2384.5	2447.1	2496.1	2637.6	2828.2	2583.2
52.5°	2095.9	2095.9	2144.9	2354.5	2496.1	2558.7	2624.0	2692.1	2855.4	3062.3	2724.7
55°	2259.3	2242.9	2272.9	2490.6	2694.8	2754.7	2879.9	2937.0	3094.9	3236.5	2844.5
57.5°	2370.9	2379.0	2414.4	2670.3	2928.9	3002.4	3127.6	3168.4	3307.2	3418.8	2931.6
60°	2517.9	2490.6	2566.8	2869.0	3187.5	3290.9	3394.3	3418.8	3522.3	3535.9	2972.4
62.5°	2659.4	2654.0	2719.3	3067.7	3465.1	3538.6	3644.8	3672.0	3715.5	3628.4	2915.3
65°	2746.5	2781.9	2904.4	3285.5	3780.9	3862.5	3968.7	3914.2	3865.2	3546.8	2634.9
67.5°	2866.3	2882.6	3070.4	3522.3	4145.6	4268.1	4360.6	4145.6	3780.9	3212.0	2218.4
70°	2893.5	2937.0	3182.0	3770.0	4521.2	4646.5	4651.9	4066.7	3473.3	2613.1	1608.7
72.5°	2773.7	2803.7	3149.4	3873.4	4736.3	4828.8	4548.5	3677.4	2751.9	1646.8	876.5
75°	2332.8	2417.1	2741.1	3554.9	4341.6	4306.2	3854.4	2806.4	1652.3	729.5	370.2
77.5°	1625.0	1627.8	1965.3	2585.9	3250.1	3241.9	2749.2	1627.8	707.7	294.0	217.8
80°	721.3	773.0	977.2	1393.7	1973.5	1973.5	1603.3	808.4	353.9	190.5	149.7
82.5°	424.6	441.0	522.6	650.6	960.9	1012.6	767.6	539.0	242.3	119.8	92.5
85°	313.0	340.3	389.2	392.0	454.6	462.7	424.6	468.2	166.0	65.3	76.2
87.5°	234.1	250.4	310.3	258.6	242.3	228.6	261.3	479.1	62.6	32.7	24.5
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°	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5	1268.5
2.5°	1254.8	1254.8	1249.4	1238.5	1238.5	1216.7	1222.2	1227.6	1214.0	1214.0	1216.7
5°	1235.8	1224.9	1211.3	1195.0	1184.1	1154.1	1148.7	1129.6	1126.9	1121.5	1113.3
7.5°	1197.7	1181.3	1156.9	1132.4	1097.0	1069.7	1037.1	1009.9	999.0	990.8	988.1
10°	1162.3	1159.6	1118.7	1069.7	1015.3	963.6	914.6	879.2	857.4	843.8	841.1
12.5°	1162.3	1140.5	1083.4	1015.3	936.4	860.2	797.5	748.6	718.6	696.8	688.7
15°	1156.9	1135.1	1058.9	955.4	865.6	762.2	675.1	623.3	579.8	558.0	560.7
17.5°	1162.3	1129.6	1023.5	911.9	786.7	675.1	571.6	509.0	465.5	449.1	446.4
20°	1165.0	1124.2	996.3	852.0	705.0	579.8	481.8	421.9	389.2	378.4	378.4
22.5°	1159.6	1107.9	955.4	781.2	634.2	500.8	419.2	367.5	345.7	332.1	337.5
25°	1184.1	1105.1	917.3	721.3	552.6	435.5	372.9	334.8	321.2	313.0	315.8
27.5°	1189.5	1105.1	887.4	653.3	481.8	386.5	337.5	313.0	302.1	296.7	294.0
30°	1211.3	1110.6	852.0	585.2	424.6	348.4	310.3	296.7	288.5	285.8	285.8
32.5°	1271.2	1126.9	813.9	528.1	375.6	315.8	291.3	280.4	274.9	272.2	274.9
35°	1341.9	1170.5	773.0	468.2	340.3	294.0	274.9	266.8	264.0	264.0	264.0
37.5°	1450.8	1235.8	737.7	419.2	310.3	272.2	258.6	255.9	253.1	255.9	255.9
40°	1576.0	1306.6	705.0	381.1	288.5	258.6	245.0	245.0	242.3	245.0	247.7
42.5°	1720.3	1393.7	672.3	343.0	269.5	247.7	236.8	234.1	231.4	236.8	239.5
45°	1919.0	1513.4	650.6	321.2	255.9	236.8	225.9	225.9	223.2	223.2	228.6
47.5°	2085.1	1627.8	650.6	299.4	247.7	228.6	217.8	217.8	212.3	215.0	215.0
50°	2223.9	1725.8	664.2	294.0	236.8	220.5	212.3	206.9	204.2	204.2	204.2
52.5°	2316.4	1785.6	675.1	288.5	231.4	209.6	204.2	201.4	196.0	193.3	196.0
55°	2409.0	1826.5	677.8	288.5	223.2	198.7	193.3	193.3	187.8	185.1	185.1
57.5°	2444.4	1810.1	639.7	283.1	217.8	190.5	185.1	182.4	179.7	176.9	176.9
60°	2428.0	1750.2	555.3	269.5	212.3	185.1	174.2	174.2	174.2	168.8	171.5
62.5°	2316.4	1546.1	446.4	247.7	204.2	174.2	163.3	168.8	168.8	166.0	166.0
65°	2022.4	1276.6	362.0	228.6	193.3	166.0	155.2	163.3	166.0	163.3	160.6
67.5°	1616.9	982.6	299.4	206.9	179.7	152.4	144.3	152.4	155.2	152.4	152.4
70°	1110.6	634.2	242.3	185.1	160.6	138.8	130.7	136.1	136.1	138.8	138.8
72.5°	574.3	343.0	198.7	157.9	138.8	125.2	117.0	117.0	114.3	114.3	114.3
75°	285.8	234.1	166.0	133.4	117.0	106.2	100.7	95.3	95.3	95.3	95.3
77.5°	198.7	179.7	136.1	106.2	95.3	87.1	87.1	78.9	78.9	78.9	78.9
80°	149.7	141.5	103.4	81.7	73.5	68.1	68.1	65.3	65.3	62.6	62.6
82.5°	106.2	114.3	78.9	59.9	54.4	51.7	51.7	49.0	49.0	43.6	43.6
85°	84.4	95.3	59.9	43.6	40.8	35.4	35.4	32.7	32.7	29.9	27.2
87.5°	24.5	51.7	24.5	16.3	16.3	16.3	16.3	13.6	13.6	10.9	10.9
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)