

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: P675681

Luminaire Tested: **CCW-SA-1F-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675681
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

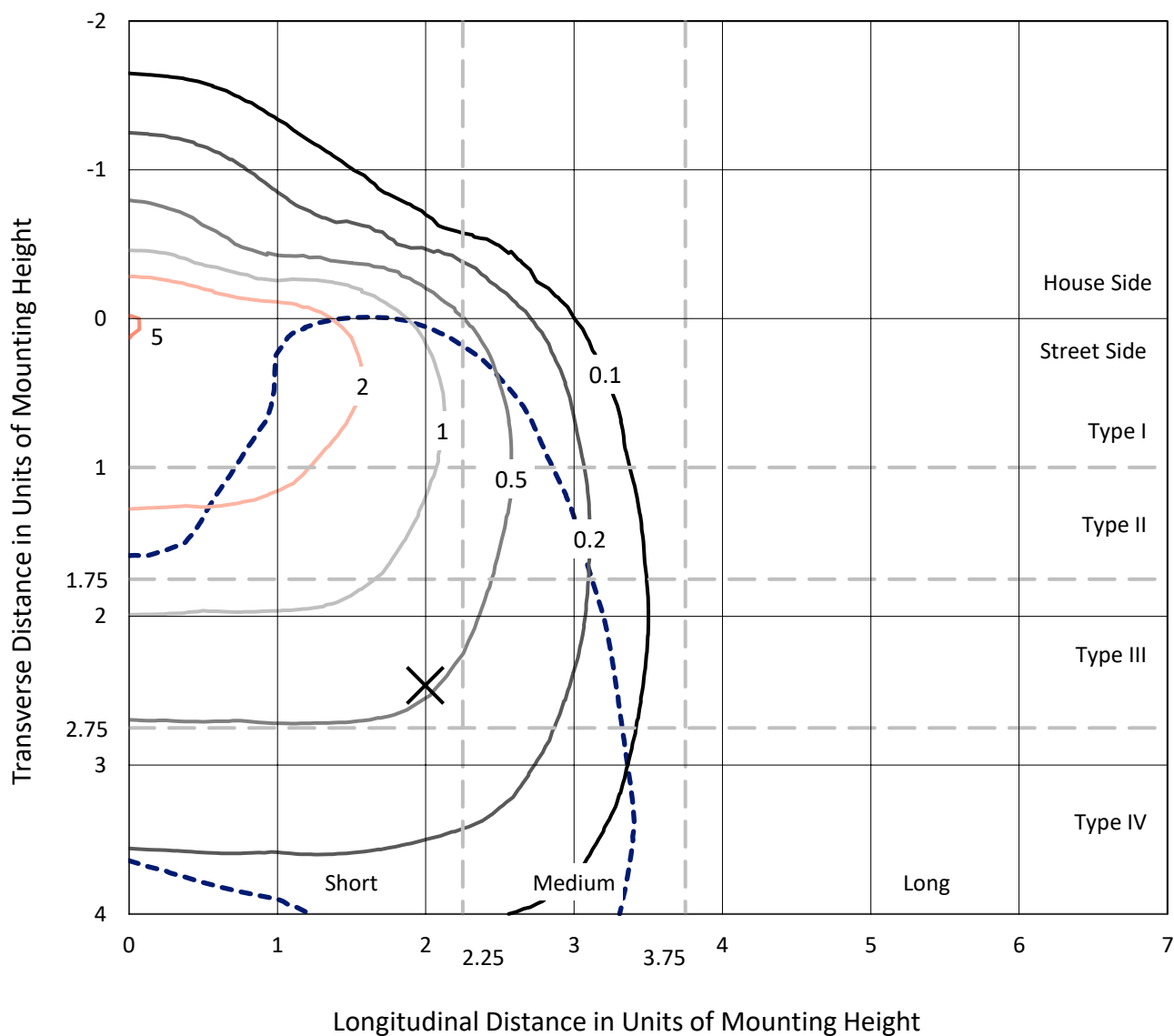
Lumens per Lamp: N/A
Luminaire Lumens: 6690.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

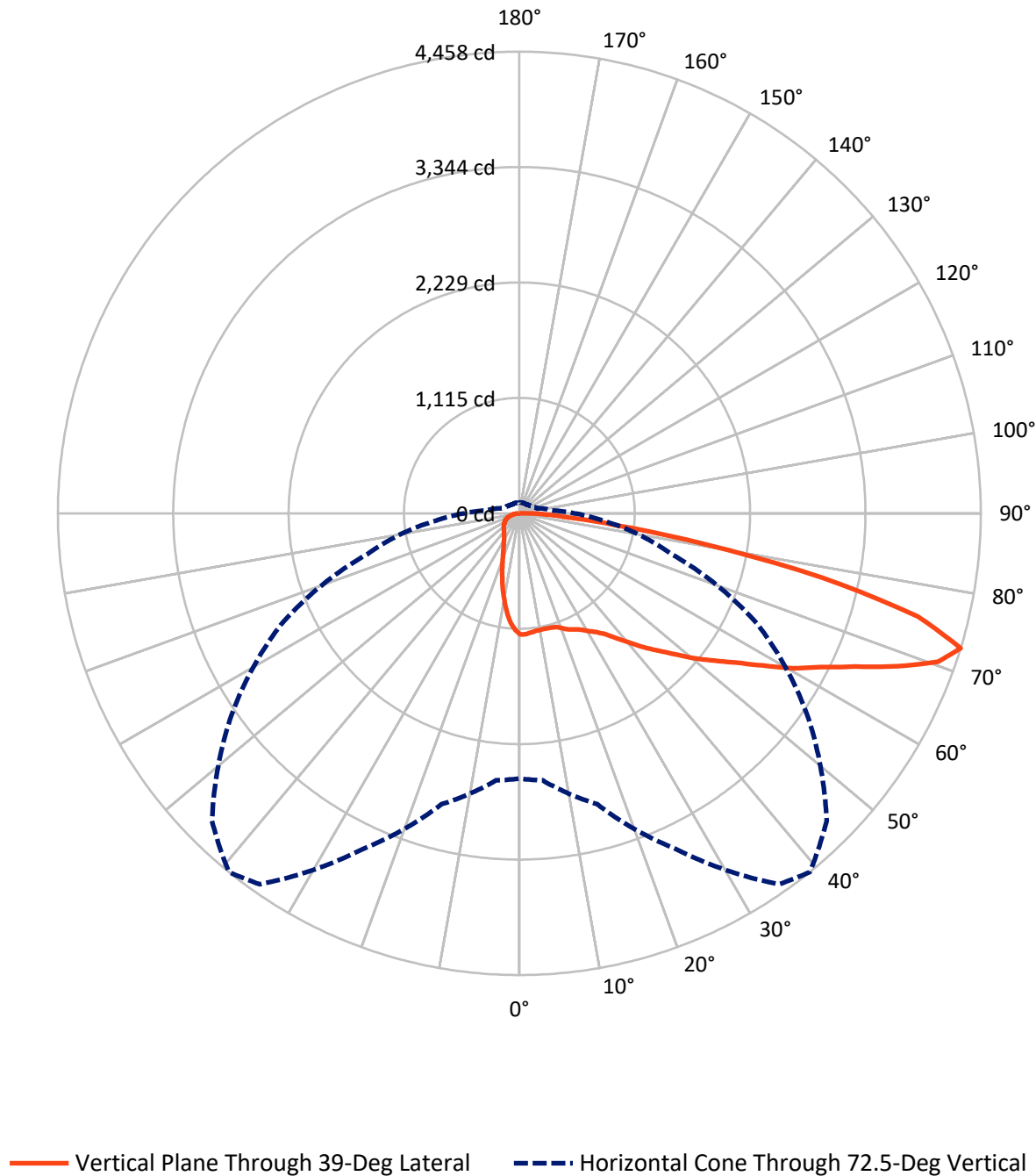
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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	994.3	0.0	994.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5696.0	0.0	5696.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	6690.3	0.0	6690.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	1.5
10°-20°	264.1	3.9
20°-30°	402.4	6.0
30°-40°	588.6	8.8
40°-50°	901.2	13.5
50°-60°	1321.7	19.8
60°-70°	1685.6	25.2
70°-80°	1217.9	18.2
80°-90°	205.4	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°	6690.3	100.0
0°-180°	6690.3	100.0

Coefficient of Utilization



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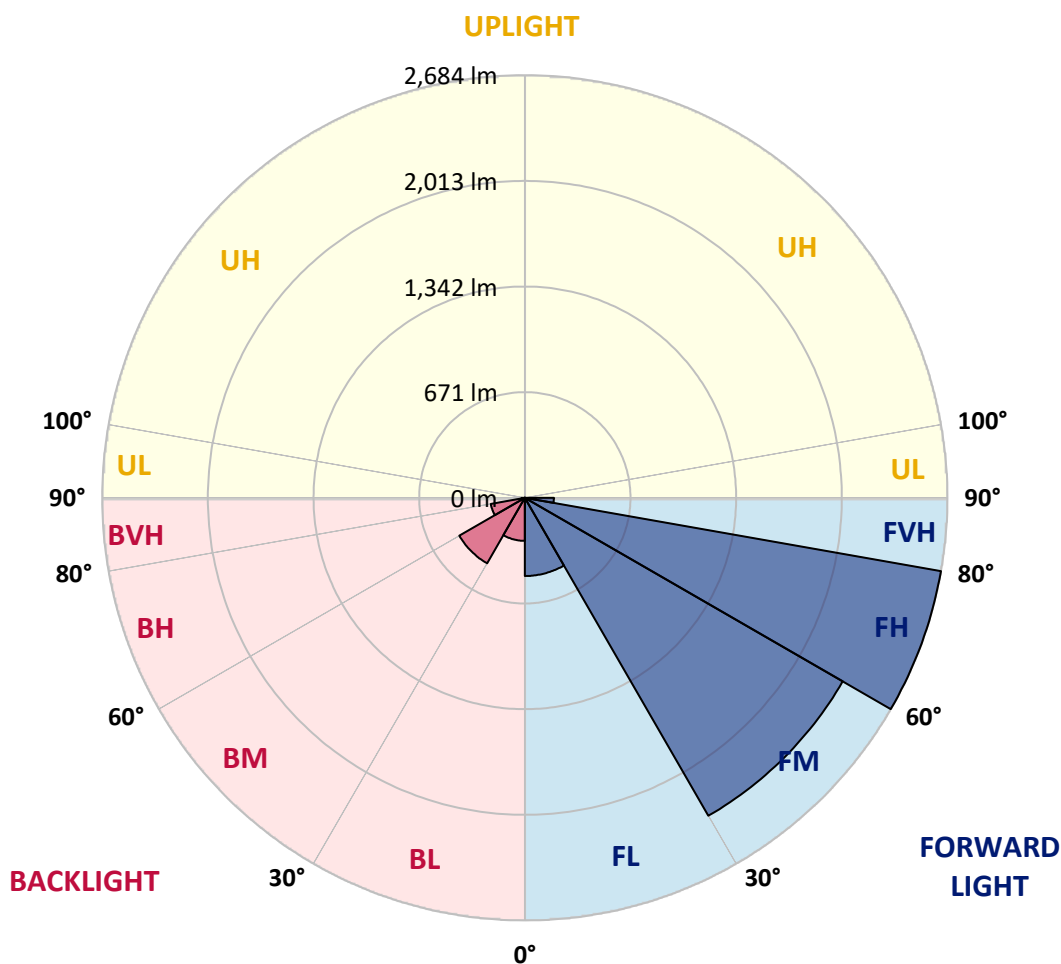
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.5	7.4			
FM	(30°-60°)	2331.1	34.8			
FH	(60°-80°)	2683.8	40.1			G2/5000
FVH	(80°-90°)	184.6	2.8			G2/225
BL	(0°-30°)	273.4	4.1	B1/500		
BM	(30°-60°)	480.3	7.2	B1/1000		
BH	(60°-80°)	219.7	3.3	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1188.7	1191.2	1186.2	1181.2	1178.6	1168.6	1178.6	1173.6	1168.6	1168.6	1168.6
5°	1173.6	1176.1	1176.1	1171.1	1173.6	1156.0	1153.5	1156.0	1148.5	1143.5	1140.9
7.5°	1151.0	1156.0	1166.1	1163.6	1153.5	1146.0	1148.5	1146.0	1133.4	1125.9	1105.8
10°	1133.4	1138.4	1143.5	1148.5	1146.0	1143.5	1140.9	1130.9	1128.4	1110.8	1090.7
12.5°	1115.8	1115.8	1118.3	1138.4	1140.9	1140.9	1125.9	1125.9	1118.3	1115.8	1085.7
15°	1098.2	1105.8	1125.9	1130.9	1140.9	1146.0	1138.4	1138.4	1125.9	1108.3	1085.7
17.5°	1103.2	1115.8	1135.9	1148.5	1153.5	1153.5	1163.6	1156.0	1138.4	1128.4	1105.8
20°	1128.4	1130.9	1156.0	1178.6	1183.7	1183.7	1173.6	1166.1	1153.5	1135.9	1105.8
22.5°	1143.5	1161.0	1191.2	1203.8	1218.8	1218.8	1206.3	1188.7	1171.1	1153.5	1120.8
25°	1208.8	1211.3	1223.9	1244.0	1251.5	1241.5	1228.9	1208.8	1186.2	1168.6	1138.4
27.5°	1254.0	1266.6	1281.7	1291.7	1279.2	1271.6	1261.6	1239.0	1221.4	1206.3	1163.6
30°	1337.0	1321.9	1331.9	1337.0	1314.3	1319.4	1291.7	1271.6	1251.5	1251.5	1203.8
32.5°	1387.2	1399.8	1389.7	1387.2	1369.6	1367.1	1349.5	1326.9	1314.3	1329.4	1264.1
35°	1475.2	1467.6	1467.6	1465.1	1445.0	1432.5	1432.5	1392.2	1404.8	1437.5	1357.1
37.5°	1520.4	1517.9	1533.0	1545.5	1525.4	1533.0	1525.4	1507.9	1512.9	1570.7	1472.7
40°	1565.7	1583.2	1613.4	1618.4	1631.0	1641.0	1636.0	1633.5	1653.6	1746.6	1628.5
42.5°	1608.4	1623.5	1668.7	1708.9	1739.1	1771.7	1774.2	1774.2	1839.6	1972.8	1817.0
45°	1663.7	1676.2	1739.1	1819.5	1869.7	1892.4	1912.5	1935.1	2023.0	2181.4	2018.0
47.5°	1739.1	1749.1	1824.5	1925.0	2023.0	2035.6	2075.8	2100.9	2234.1	2395.0	2224.1
50°	1847.1	1839.6	1899.9	2045.7	2141.1	2201.5	2259.3	2304.5	2435.2	2611.1	2384.9
52.5°	1935.1	1935.1	1980.3	2173.8	2304.5	2362.3	2422.6	2485.4	2636.2	2827.2	2515.6
55°	2085.9	2070.8	2098.4	2299.5	2488.0	2543.2	2658.8	2711.6	2857.4	2988.1	2626.2
57.5°	2188.9	2196.4	2229.1	2465.3	2704.1	2771.9	2887.5	2925.2	3053.4	3156.4	2706.6
60°	2324.6	2299.5	2369.8	2648.8	2942.8	3038.3	3133.8	3156.4	3251.9	3264.5	2744.3
62.5°	2455.3	2450.3	2510.6	2832.2	3199.2	3267.0	3365.0	3390.2	3430.4	3349.9	2691.5
65°	2535.7	2568.4	2681.5	3033.3	3490.7	3566.1	3664.1	3613.8	3568.6	3274.6	2432.7
67.5°	2646.3	2661.4	2834.8	3251.9	3827.4	3940.5	4026.0	3827.4	3490.7	2965.4	2048.2
70°	2671.4	2711.6	2937.8	3480.6	4174.2	4289.8	4294.9	3754.5	3206.7	2412.6	1485.2
72.5°	2560.8	2588.5	2907.6	3576.1	4372.8	4458.2	4199.4	3395.2	2540.7	1520.4	809.2
75°	2153.7	2231.6	2530.7	3282.1	4008.4	3975.7	3558.5	2591.0	1525.4	673.5	341.8
77.5°	1500.3	1502.8	1814.4	2387.4	3000.6	2993.1	2538.2	1502.8	653.4	271.4	201.0
80°	666.0	713.7	902.2	1286.7	1822.0	1822.0	1480.2	746.4	326.7	175.9	138.2
82.5°	392.0	407.1	482.5	600.6	887.1	934.9	708.7	497.6	223.7	110.6	85.4
85°	289.0	314.1	359.4	361.9	419.7	427.2	392.0	432.3	153.3	60.3	70.4
87.5°	216.1	231.2	286.5	238.7	223.7	211.1	241.3	442.3	57.8	30.2	22.6
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°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1158.5	1158.5	1153.5	1143.5	1143.5	1123.3	1128.4	1133.4	1120.8	1120.8	1123.3
5°	1140.9	1130.9	1118.3	1103.2	1093.2	1065.5	1060.5	1042.9	1040.4	1035.4	1027.9
7.5°	1105.8	1090.7	1068.1	1045.4	1012.8	987.6	957.5	932.4	922.3	914.8	912.3
10°	1073.1	1070.6	1032.9	987.6	937.4	889.6	844.4	811.7	791.6	779.1	776.5
12.5°	1073.1	1053.0	1000.2	937.4	864.5	794.1	736.3	691.1	663.5	643.3	635.8
15°	1068.1	1048.0	977.6	882.1	799.2	703.7	623.2	575.5	535.3	515.2	517.7
17.5°	1073.1	1042.9	944.9	841.9	726.3	623.2	527.7	469.9	429.7	414.7	412.1
20°	1075.6	1037.9	919.8	786.6	650.9	535.3	444.8	389.5	359.4	349.3	349.3
22.5°	1070.6	1022.8	882.1	721.3	585.5	462.4	387.0	339.3	319.2	306.6	311.6
25°	1093.2	1020.3	846.9	666.0	510.2	402.1	344.3	309.1	296.5	289.0	291.5
27.5°	1098.2	1020.3	819.3	603.1	444.8	356.9	311.6	289.0	279.0	273.9	271.4
30°	1118.3	1025.3	786.6	540.3	392.0	321.7	286.5	273.9	266.4	263.9	263.9
32.5°	1173.6	1040.4	751.4	487.5	346.8	291.5	268.9	258.8	253.8	251.3	253.8
35°	1239.0	1080.6	713.7	432.3	314.1	271.4	253.8	246.3	243.8	243.8	243.8
37.5°	1339.5	1140.9	681.0	387.0	286.5	251.3	238.7	236.2	233.7	236.2	236.2
40°	1455.1	1206.3	650.9	351.8	266.4	238.7	226.2	226.2	223.7	226.2	228.7
42.5°	1588.3	1286.7	620.7	316.6	248.8	228.7	218.6	216.1	213.6	218.6	221.2
45°	1771.7	1397.3	600.6	296.5	236.2	218.6	208.6	208.6	206.1	206.1	211.1
47.5°	1925.0	1502.8	600.6	276.4	228.7	211.1	201.0	201.0	196.0	198.5	198.5
50°	2053.2	1593.3	613.2	271.4	218.6	203.6	196.0	191.0	188.5	188.5	188.5
52.5°	2138.6	1648.6	623.2	266.4	213.6	193.5	188.5	186.0	180.9	178.4	180.9
55°	2224.1	1686.3	625.8	266.4	206.1	183.5	178.4	178.4	173.4	170.9	170.9
57.5°	2256.8	1671.2	590.6	261.4	201.0	175.9	170.9	168.4	165.9	163.4	163.4
60°	2241.7	1615.9	512.7	248.8	196.0	170.9	160.8	160.8	160.8	155.8	158.3
62.5°	2138.6	1427.4	412.1	228.7	188.5	160.8	150.8	155.8	155.8	153.3	153.3
65°	1867.2	1178.6	334.2	211.1	178.4	153.3	143.2	150.8	153.3	150.8	148.3
67.5°	1492.8	907.2	276.4	191.0	165.9	140.7	133.2	140.7	143.2	140.7	140.7
70°	1025.3	585.5	223.7	170.9	148.3	128.2	120.6	125.7	125.7	128.2	128.2
72.5°	530.3	316.6	183.5	145.8	128.2	115.6	108.1	108.1	105.5	105.5	105.5
75°	263.9	216.1	153.3	123.1	108.1	98.0	93.0	88.0	88.0	88.0	88.0
77.5°	183.5	165.9	125.7	98.0	88.0	80.4	80.4	72.9	72.9	72.9	72.9
80°	138.2	130.7	95.5	75.4	67.9	62.8	62.8	60.3	60.3	57.8	57.8
82.5°	98.0	105.5	72.9	55.3	50.3	47.7	47.7	45.2	45.2	40.2	40.2
85°	77.9	88.0	55.3	40.2	37.7	32.7	32.7	30.2	30.2	27.6	25.1
87.5°	22.6	47.7	22.6	15.1	15.1	15.1	15.1	12.6	12.6	10.1	10.1
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)