

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: P671509

Luminaire Tested: **CCP-SA-2C-727-U-SL4**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671509
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-727-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ SL4
distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7409.6 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

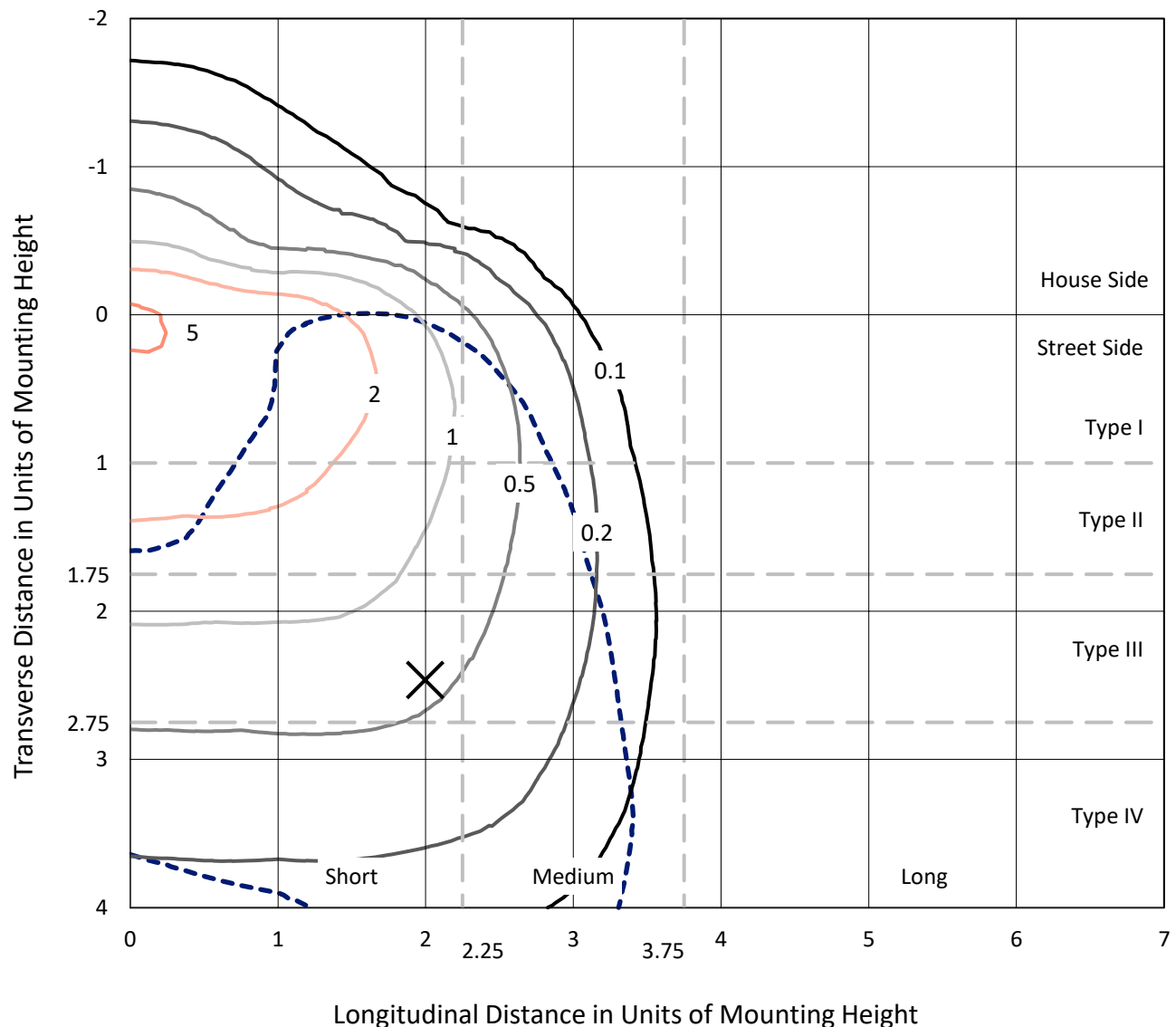
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

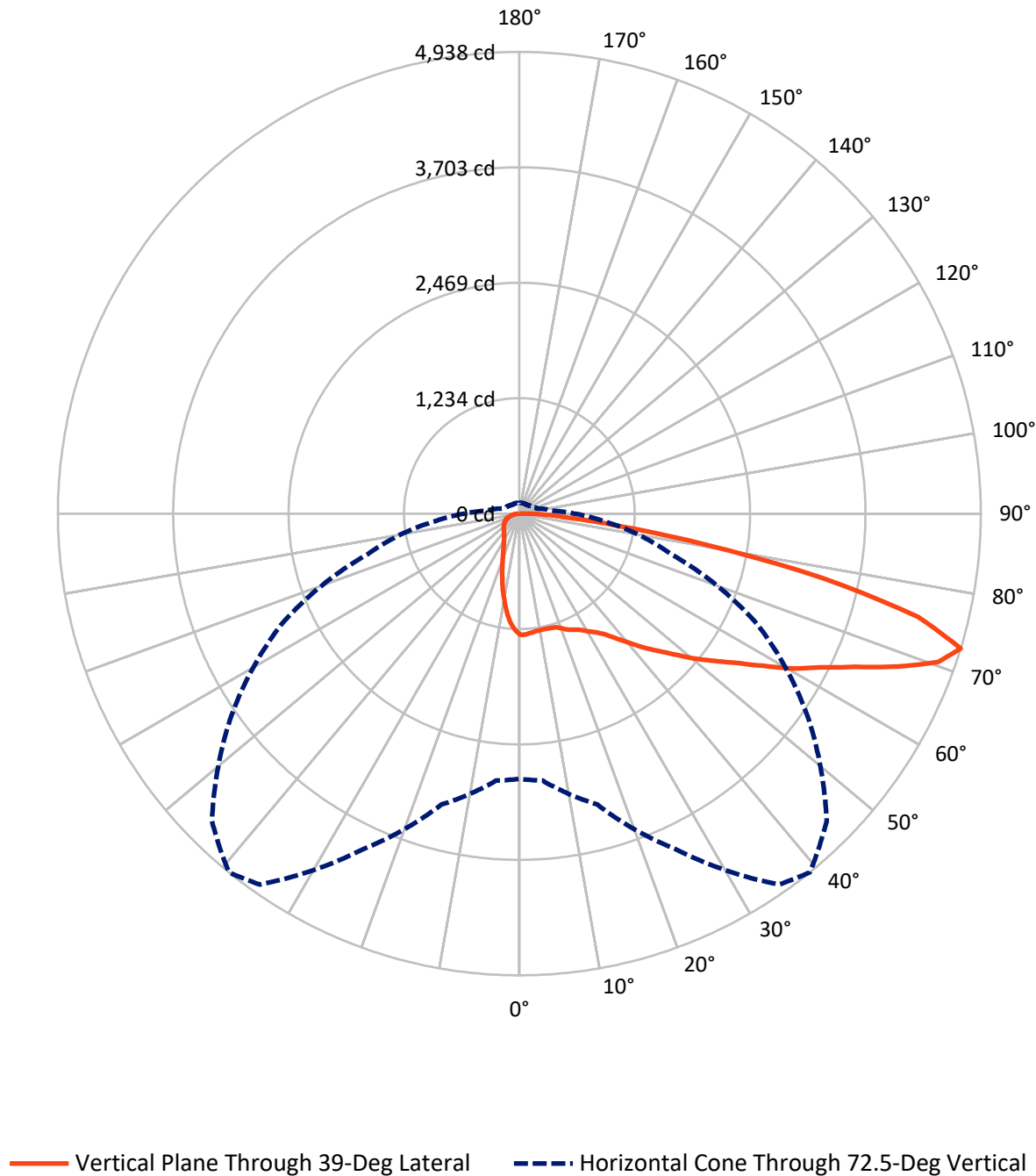


Based on 15 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.2	0.0	1101.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6308.4	0.0	6308.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	7409.6	0.0	7409.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.5
10°-20°	292.5	3.9
20°-30°	445.6	6.0
30°-40°	651.9	8.8
40°-50°	998.0	13.5
50°-60°	1463.8	19.8
60°-70°	1866.8	25.2
70°-80°	1348.8	18.2
80°-90°	227.5	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°	7409.6	100.0
0°-180°	7409.6	100.0

Coefficient of Utilization



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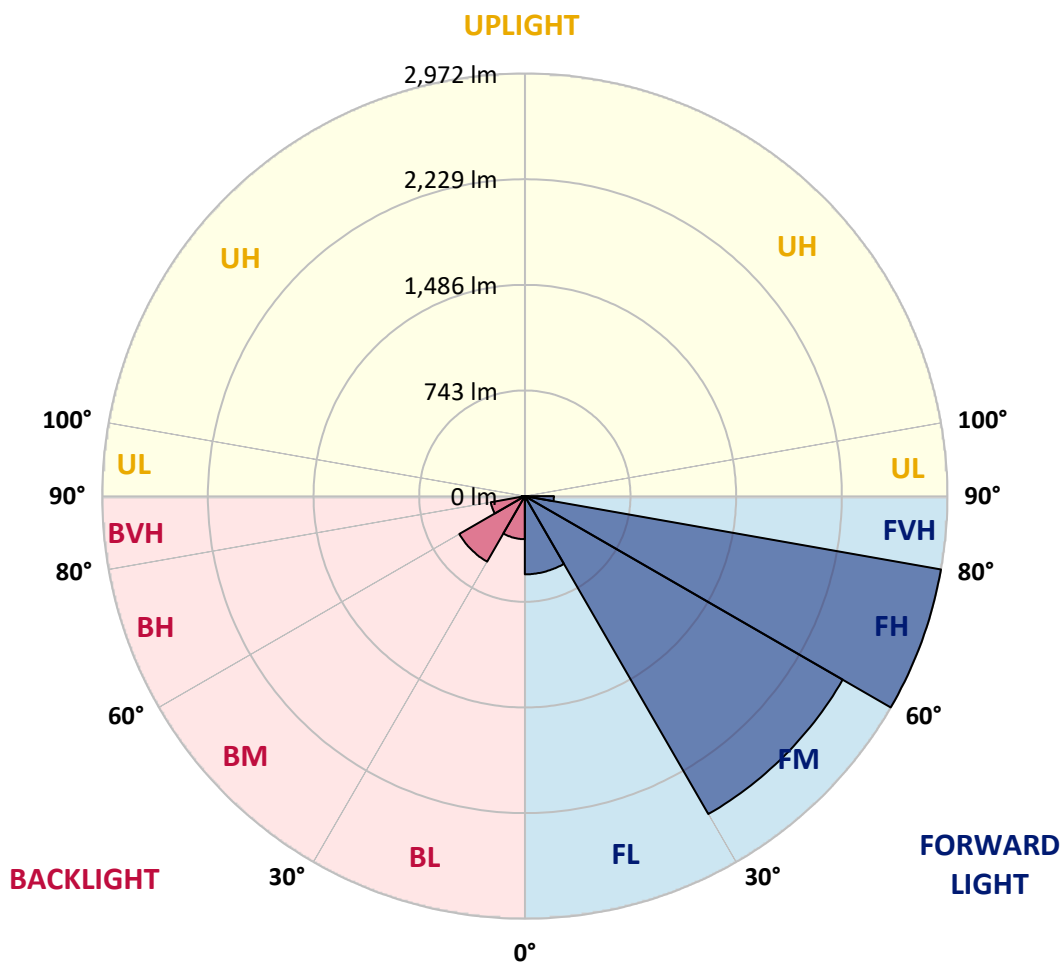
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.9	7.4			
FM	(30°-60°)	2581.7	34.8			
FH	(60°-80°)	2972.3	40.1			G2/5000
FVH	(80°-90°)	204.5	2.8			G2/225
BL	(0°-30°)	302.8	4.1	B1/500		
BM	(30°-60°)	532.0	7.2	B1/1000		
BH	(60°-80°)	243.3	3.3	B1/500		G1/500
BVH	(80°-90°)	23.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1316.5	1319.3	1313.7	1308.1	1305.4	1294.2	1305.4	1299.8	1294.2	1294.2	1294.2
5°	1299.8	1302.6	1302.6	1297.0	1299.8	1280.3	1277.5	1280.3	1272.0	1266.4	1263.6
7.5°	1274.7	1280.3	1291.4	1288.7	1277.5	1269.2	1272.0	1269.2	1255.3	1246.9	1224.6
10°	1255.3	1260.8	1266.4	1272.0	1269.2	1266.4	1263.6	1252.5	1249.7	1230.2	1207.9
12.5°	1235.8	1235.8	1238.6	1260.8	1263.6	1263.6	1246.9	1246.9	1238.6	1235.8	1202.4
15°	1216.3	1224.6	1246.9	1252.5	1263.6	1269.2	1260.8	1260.8	1246.9	1227.4	1202.4
17.5°	1221.9	1235.8	1258.0	1272.0	1277.5	1277.5	1288.7	1280.3	1260.8	1249.7	1224.6
20°	1249.7	1252.5	1280.3	1305.4	1310.9	1310.9	1299.8	1291.4	1277.5	1258.0	1224.6
22.5°	1266.4	1285.9	1319.3	1333.2	1349.9	1349.9	1336.0	1316.5	1297.0	1277.5	1241.3
25°	1338.8	1341.5	1355.5	1377.7	1386.1	1374.9	1361.0	1338.8	1313.7	1294.2	1260.8
27.5°	1388.9	1402.8	1419.5	1430.6	1416.7	1408.3	1397.2	1372.2	1352.7	1336.0	1288.7
30°	1480.7	1464.0	1475.1	1480.7	1455.7	1461.2	1430.6	1408.3	1386.1	1386.1	1333.2
32.5°	1536.4	1550.3	1539.2	1536.4	1516.9	1514.1	1494.6	1469.6	1455.7	1472.4	1400.0
35°	1633.8	1625.4	1625.4	1622.7	1600.4	1586.5	1586.5	1541.9	1555.9	1592.0	1503.0
37.5°	1683.9	1681.1	1697.8	1711.7	1689.4	1697.8	1689.4	1670.0	1675.5	1739.5	1631.0
40°	1734.0	1753.5	1786.9	1792.4	1806.3	1817.5	1811.9	1809.1	1831.4	1934.4	1803.6
42.5°	1781.3	1798.0	1848.1	1892.6	1926.0	1962.2	1965.0	1965.0	2037.4	2184.9	2012.3
45°	1842.5	1856.4	1926.0	2015.1	2070.8	2095.8	2118.1	2143.1	2240.5	2415.9	2235.0
47.5°	1926.0	1937.2	2020.7	2132.0	2240.5	2254.5	2299.0	2326.8	2474.3	2652.5	2463.2
50°	2045.7	2037.4	2104.2	2265.6	2371.4	2438.2	2502.2	2552.3	2697.0	2891.8	2641.3
52.5°	2143.1	2143.1	2193.2	2407.5	2552.3	2616.3	2683.1	2752.7	2919.7	3131.2	2786.1
55°	2310.1	2293.4	2324.0	2546.7	2755.4	2816.7	2944.7	3003.2	3164.6	3309.3	2908.5
57.5°	2424.2	2432.6	2468.8	2730.4	2994.8	3070.0	3198.0	3239.7	3381.7	3495.8	2997.6
60°	2574.5	2546.7	2624.6	2933.6	3259.2	3365.0	3470.7	3495.8	3601.6	3615.5	3039.3
62.5°	2719.3	2713.7	2780.5	3136.8	3543.1	3618.3	3726.8	3754.6	3799.2	3710.1	2980.9
65°	2808.3	2844.5	2969.8	3359.4	3866.0	3949.5	4058.0	4002.4	3952.3	3626.6	2694.2
67.5°	2930.8	2947.5	3139.5	3601.6	4238.9	4364.2	4458.8	4238.9	3866.0	3284.3	2268.4
70°	2958.6	3003.2	3253.7	3854.8	4623.0	4751.1	4756.6	4158.2	3551.5	2671.9	1644.9
72.5°	2836.2	2866.8	3220.3	3960.6	4842.9	4937.5	4650.9	3760.2	2813.9	1683.9	896.2
75°	2385.3	2471.6	2802.8	3635.0	4439.3	4403.1	3941.1	2869.6	1689.4	745.9	378.5
77.5°	1661.6	1664.4	2009.5	2644.1	3323.2	3314.9	2811.1	1664.4	723.7	300.6	222.7
80°	737.6	790.5	999.2	1425.0	2017.9	2017.9	1639.4	826.6	361.8	194.8	153.1
82.5°	434.2	450.9	534.4	665.2	982.5	1035.4	784.9	551.1	247.7	122.5	94.6
85°	320.1	347.9	398.0	400.8	464.8	473.2	434.2	478.7	169.8	66.8	77.9
87.5°	239.4	256.1	317.3	264.4	247.7	233.8	267.2	489.9	64.0	33.4	25.0
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°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1283.1	1283.1	1277.5	1266.4	1266.4	1244.1	1249.7	1255.3	1241.3	1241.3	1244.1
5°	1263.6	1252.5	1238.6	1221.9	1210.7	1180.1	1174.5	1155.1	1152.3	1146.7	1138.4
7.5°	1224.6	1207.9	1182.9	1157.8	1121.7	1093.8	1060.4	1032.6	1021.5	1013.1	1010.3
10°	1188.5	1185.7	1143.9	1093.8	1038.2	985.3	935.2	899.0	876.7	862.8	860.0
12.5°	1188.5	1166.2	1107.7	1038.2	957.4	879.5	815.5	765.4	734.8	712.5	704.2
15°	1182.9	1160.6	1082.7	976.9	885.1	779.3	690.3	637.4	592.8	570.6	573.4
17.5°	1188.5	1155.1	1046.5	932.4	804.4	690.3	584.5	520.5	475.9	459.2	456.5
20°	1191.2	1149.5	1018.7	871.2	720.9	592.8	492.6	431.4	398.0	386.9	386.9
22.5°	1185.7	1132.8	976.9	798.8	648.5	512.1	428.6	375.7	353.5	339.6	345.1
25°	1210.7	1130.0	938.0	737.6	565.0	445.3	381.3	342.3	328.4	320.1	322.9
27.5°	1216.3	1130.0	907.3	668.0	492.6	395.2	345.1	320.1	308.9	303.4	300.6
30°	1238.6	1135.6	871.2	598.4	434.2	356.3	317.3	303.4	295.0	292.2	292.2
32.5°	1299.8	1152.3	832.2	540.0	384.1	322.9	297.8	286.7	281.1	278.3	281.1
35°	1372.2	1196.8	790.5	478.7	347.9	300.6	281.1	272.8	270.0	270.0	270.0
37.5°	1483.5	1263.6	754.3	428.6	317.3	278.3	264.4	261.6	258.8	261.6	261.6
40°	1611.5	1336.0	720.9	389.7	295.0	264.4	250.5	250.5	247.7	250.5	253.3
42.5°	1759.0	1425.0	687.5	350.7	275.5	253.3	242.1	239.4	236.6	242.1	244.9
45°	1962.2	1547.5	665.2	328.4	261.6	242.1	231.0	231.0	228.2	228.2	233.8
47.5°	2132.0	1664.4	665.2	306.2	253.3	233.8	222.7	222.7	217.1	219.9	219.9
50°	2273.9	1764.6	679.1	300.6	242.1	225.4	217.1	211.5	208.7	208.7	208.7
52.5°	2368.6	1825.8	690.3	295.0	236.6	214.3	208.7	206.0	200.4	197.6	200.4
55°	2463.2	1867.6	693.0	295.0	228.2	203.2	197.6	197.6	192.0	189.3	189.3
57.5°	2499.4	1850.9	654.1	289.5	222.7	194.8	189.3	186.5	183.7	180.9	180.9
60°	2482.7	1789.6	567.8	275.5	217.1	189.3	178.1	178.1	178.1	172.6	175.3
62.5°	2368.6	1580.9	456.5	253.3	208.7	178.1	167.0	172.6	172.6	169.8	169.8
65°	2068.0	1305.4	370.2	233.8	197.6	169.8	158.6	167.0	169.8	167.0	164.2
67.5°	1653.3	1004.8	306.2	211.5	183.7	155.9	147.5	155.9	158.6	155.9	155.9
70°	1135.6	648.5	247.7	189.3	164.2	141.9	133.6	139.2	139.2	141.9	141.9
72.5°	587.3	350.7	203.2	161.4	141.9	128.0	119.7	119.7	116.9	116.9	116.9
75°	292.2	239.4	169.8	136.4	119.7	108.5	103.0	97.4	97.4	97.4	97.4
77.5°	203.2	183.7	139.2	108.5	97.4	89.1	89.1	80.7	80.7	80.7	80.7
80°	153.1	144.7	105.8	83.5	75.1	69.6	69.6	66.8	66.8	64.0	64.0
82.5°	108.5	116.9	80.7	61.2	55.7	52.9	52.9	50.1	50.1	44.5	44.5
85°	86.3	97.4	61.2	44.5	41.7	36.2	36.2	33.4	33.4	30.6	27.8
87.5°	25.0	52.9	25.0	16.7	16.7	16.7	16.7	13.9	13.9	11.1	11.1
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)