

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: P675745

Luminaire Tested: **CCW-SA-1D-830-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675745
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

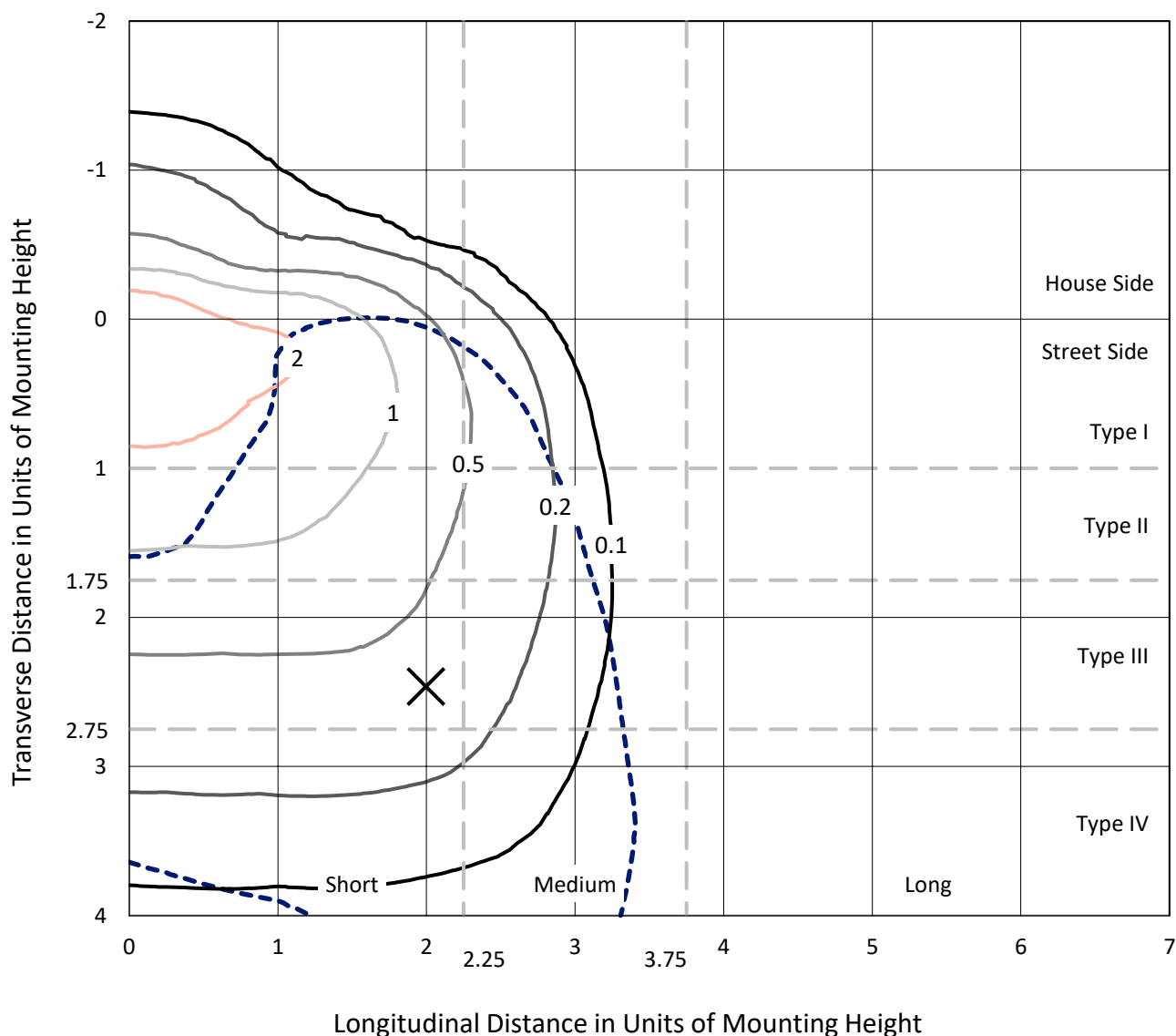
Lumens per Lamp: N/A
Luminaire Lumens: 4342.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

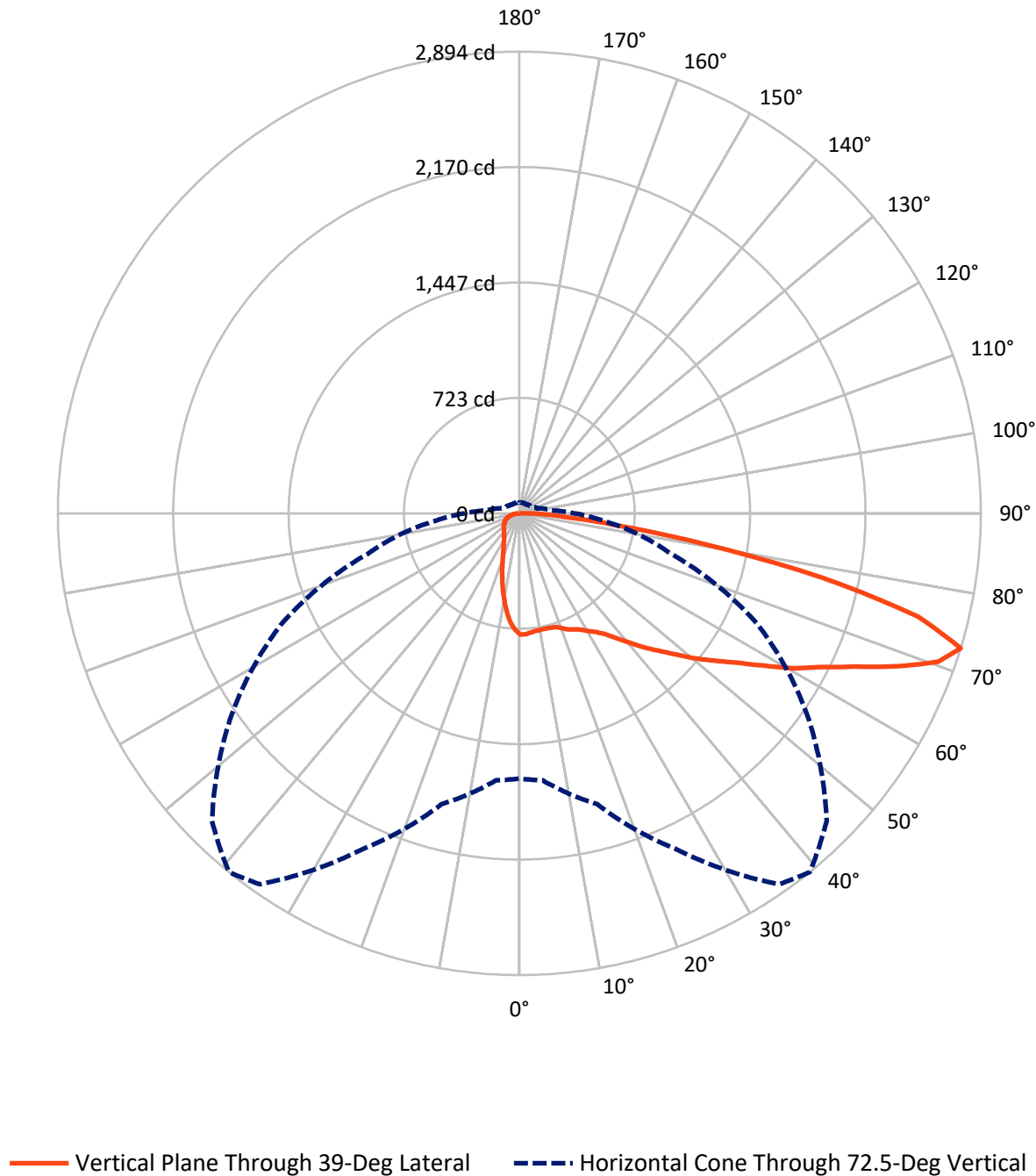
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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	645.4	0.0	645.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3697.1	0.0	3697.1
	% Fixture	85.1	0.0	85.1
Total	Lumens	4342.4	0.0	4342.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.5
10°-20°	171.4	3.9
20°-30°	261.2	6.0
30°-40°	382.0	8.8
40°-50°	584.9	13.5
50°-60°	857.8	19.8
60°-70°	1094.1	25.2
70°-80°	790.5	18.2
80°-90°	133.4	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°	4342.4	100.0
0°-180°	4342.4	100.0

Coefficient of Utilization



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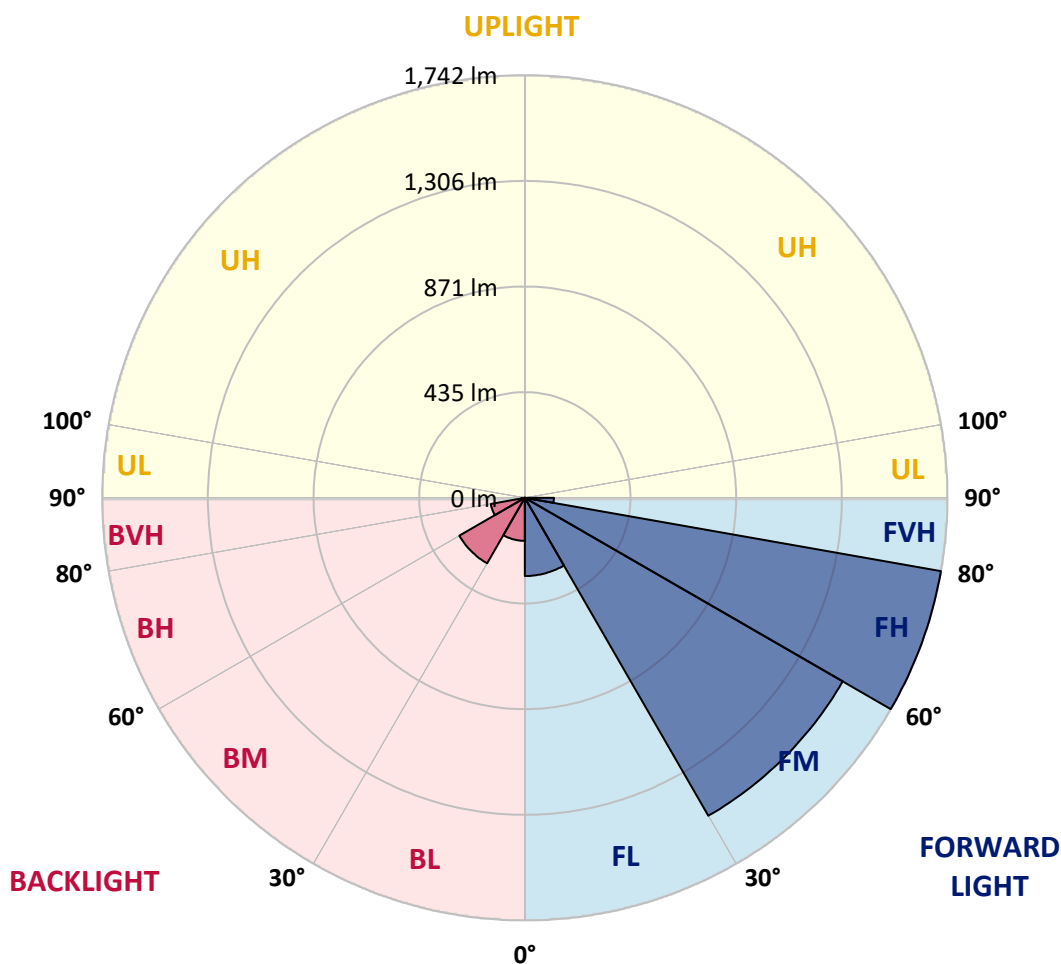
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.3	7.4			
FM	(30°-60°)	1513.0	34.8			
FH	(60°-80°)	1741.9	40.1			G1/1800
FVH	(80°-90°)	119.8	2.8			G2/225
BL	(0°-30°)	177.5	4.1	B1/500		
BM	(30°-60°)	311.8	7.2	B1/1000		
BH	(60°-80°)	142.6	3.3	B1/500		G1/500
BVH	(80°-90°)	13.5	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°	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1
2.5°	771.5	773.2	769.9	766.6	765.0	758.5	765.0	761.7	758.5	758.5	758.5
5°	761.7	763.4	763.4	760.1	761.7	750.3	748.7	750.3	745.4	742.2	740.5
7.5°	747.1	750.3	756.9	755.2	748.7	743.8	745.4	743.8	735.6	730.8	717.7
10°	735.6	738.9	742.2	745.4	743.8	742.2	740.5	734.0	732.4	721.0	707.9
12.5°	724.2	724.2	725.9	738.9	740.5	740.5	730.8	730.8	725.9	724.2	704.7
15°	712.8	717.7	730.8	734.0	740.5	743.8	738.9	738.9	730.8	719.3	704.7
17.5°	716.1	724.2	737.3	745.4	748.7	748.7	755.2	750.3	738.9	732.4	717.7
20°	732.4	734.0	750.3	765.0	768.3	768.3	761.7	756.9	748.7	737.3	717.7
22.5°	742.2	753.6	773.2	781.3	791.1	791.1	783.0	771.5	760.1	748.7	727.5
25°	784.6	786.2	794.4	807.4	812.3	805.8	797.6	784.6	769.9	758.5	738.9
27.5°	813.9	822.1	831.9	838.4	830.3	825.4	818.8	804.2	792.7	783.0	755.2
30°	867.8	858.0	864.5	867.8	853.1	856.4	838.4	825.4	812.3	812.3	781.3
32.5°	900.4	908.6	902.0	900.4	889.0	887.3	875.9	861.2	853.1	862.9	820.5
35°	957.5	952.6	952.6	951.0	937.9	929.8	929.8	903.7	911.8	933.0	880.8
37.5°	986.8	985.2	995.0	1003.2	990.1	995.0	990.1	978.7	982.0	1019.5	955.9
40°	1016.2	1027.6	1047.2	1050.5	1058.6	1065.1	1061.9	1060.2	1073.3	1133.6	1057.0
42.5°	1043.9	1053.7	1083.1	1109.2	1128.8	1150.0	1151.6	1151.6	1194.0	1280.5	1179.3
45°	1079.8	1088.0	1128.8	1181.0	1213.6	1228.3	1241.3	1256.0	1313.1	1415.8	1309.8
47.5°	1128.8	1135.3	1184.2	1249.5	1313.1	1321.2	1347.3	1363.6	1450.1	1554.5	1443.6
50°	1198.9	1194.0	1233.1	1327.8	1389.7	1428.9	1466.4	1495.8	1580.6	1694.8	1548.0
52.5°	1256.0	1256.0	1285.3	1410.9	1495.8	1533.3	1572.4	1613.2	1711.1	1835.0	1632.8
55°	1353.9	1344.1	1362.0	1492.5	1614.8	1650.7	1725.8	1760.0	1854.6	1939.4	1704.6
57.5°	1420.7	1425.6	1446.8	1600.2	1755.1	1799.2	1874.2	1898.7	1981.8	2048.7	1756.7
60°	1508.8	1492.5	1538.2	1719.2	1910.1	1972.1	2034.0	2048.7	2110.7	2118.9	1781.2
62.5°	1593.6	1590.4	1629.5	1838.3	2076.5	2120.5	2184.1	2200.4	2226.5	2174.3	1747.0
65°	1645.8	1667.0	1740.4	1968.8	2265.7	2314.6	2378.2	2345.6	2316.2	2125.4	1579.0
67.5°	1717.6	1727.4	1839.9	2110.7	2484.2	2557.6	2613.1	2484.2	2265.7	1924.8	1329.4
70°	1733.9	1760.0	1906.8	2259.1	2709.3	2784.4	2787.6	2436.9	2081.3	1565.9	964.0
72.5°	1662.1	1680.1	1887.2	2321.1	2838.2	2893.7	2725.7	2203.7	1649.1	986.8	525.2
75°	1397.9	1448.5	1642.6	2130.3	2601.7	2580.5	2309.7	1681.7	990.1	437.1	221.8
77.5°	973.8	975.4	1177.7	1549.6	1947.6	1942.7	1647.5	975.4	424.1	176.2	130.5
80°	432.3	463.2	585.6	835.1	1182.6	1182.6	960.7	484.5	212.0	114.2	89.7
82.5°	254.5	264.2	313.2	389.8	575.8	606.8	460.0	323.0	145.2	71.8	55.5
85°	187.6	203.9	233.3	234.9	272.4	277.3	254.5	280.6	99.5	39.1	45.7
87.5°	140.3	150.1	186.0	155.0	145.2	137.0	156.6	287.1	37.5	19.6	14.7
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°	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1	760.1
2.5°	752.0	752.0	748.7	742.2	742.2	729.1	732.4	735.6	727.5	727.5	729.1
5°	740.5	734.0	725.9	716.1	709.5	691.6	688.3	676.9	675.3	672.0	667.1
7.5°	717.7	707.9	693.2	678.6	657.4	641.0	621.5	605.2	598.6	593.7	592.1
10°	696.5	694.9	670.4	641.0	608.4	577.4	548.1	526.9	513.8	505.7	504.0
12.5°	696.5	683.5	649.2	608.4	561.1	515.4	477.9	448.6	430.6	417.6	412.7
15°	693.2	680.2	634.5	572.5	518.7	456.7	404.5	373.5	347.4	334.4	336.0
17.5°	696.5	676.9	613.3	546.4	471.4	404.5	342.5	305.0	278.9	269.1	267.5
20°	698.1	673.7	597.0	510.5	422.5	347.4	288.7	252.8	233.3	226.7	226.7
22.5°	694.9	663.9	572.5	468.1	380.1	300.1	251.2	220.2	207.2	199.0	202.3
25°	709.5	662.2	549.7	432.3	331.1	261.0	223.5	200.6	192.5	187.6	189.2
27.5°	712.8	662.2	531.8	391.5	288.7	231.6	202.3	187.6	181.1	177.8	176.2
30°	725.9	665.5	510.5	350.7	254.5	208.8	186.0	177.8	172.9	171.3	171.3
32.5°	761.7	675.3	487.7	316.4	225.1	189.2	174.5	168.0	164.7	163.1	164.7
35°	804.2	701.4	463.2	280.6	203.9	176.2	164.7	159.9	158.2	158.2	158.2
37.5°	869.4	740.5	442.0	251.2	186.0	163.1	155.0	153.3	151.7	153.3	153.3
40°	944.4	783.0	422.5	228.4	172.9	155.0	146.8	146.8	145.2	146.8	148.4
42.5°	1030.9	835.1	402.9	205.5	161.5	148.4	141.9	140.3	138.6	141.9	143.5
45°	1150.0	906.9	389.8	192.5	153.3	141.9	135.4	135.4	133.8	133.8	137.0
47.5°	1249.5	975.4	389.8	179.4	148.4	137.0	130.5	130.5	127.2	128.9	128.9
50°	1332.6	1034.1	398.0	176.2	141.9	132.1	127.2	124.0	122.3	122.3	122.3
52.5°	1388.1	1070.0	404.5	172.9	138.6	125.6	122.3	120.7	117.4	115.8	117.4
55°	1443.6	1094.5	406.2	172.9	133.8	119.1	115.8	115.8	112.5	110.9	110.9
57.5°	1464.8	1084.7	383.3	169.6	130.5	114.2	110.9	109.3	107.7	106.0	106.0
60°	1455.0	1048.8	332.8	161.5	127.2	110.9	104.4	104.4	104.4	101.1	102.8
62.5°	1388.1	926.5	267.5	148.4	122.3	104.4	97.9	101.1	101.1	99.5	99.5
65°	1211.9	765.0	216.9	137.0	115.8	99.5	93.0	97.9	99.5	97.9	96.2
67.5°	968.9	588.8	179.4	124.0	107.7	91.3	86.5	91.3	93.0	91.3	91.3
70°	665.5	380.1	145.2	110.9	96.2	83.2	78.3	81.6	81.6	83.2	83.2
72.5°	344.2	205.5	119.1	94.6	83.2	75.0	70.1	70.1	68.5	68.5	68.5
75°	171.3	140.3	99.5	79.9	70.1	63.6	60.4	57.1	57.1	57.1	57.1
77.5°	119.1	107.7	81.6	63.6	57.1	52.2	52.2	47.3	47.3	47.3	47.3
80°	89.7	84.8	62.0	48.9	44.0	40.8	40.8	39.1	39.1	37.5	37.5
82.5°	63.6	68.5	47.3	35.9	32.6	31.0	31.0	29.4	29.4	26.1	26.1
85°	50.6	57.1	35.9	26.1	24.5	21.2	21.2	19.6	19.6	17.9	16.3
87.5°	14.7	31.0	14.7	9.8	9.8	9.8	9.8	8.2	8.2	6.5	6.5
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)