

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: P675634

Luminaire Tested: **CCW-SA-1D-850-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675634
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL3 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

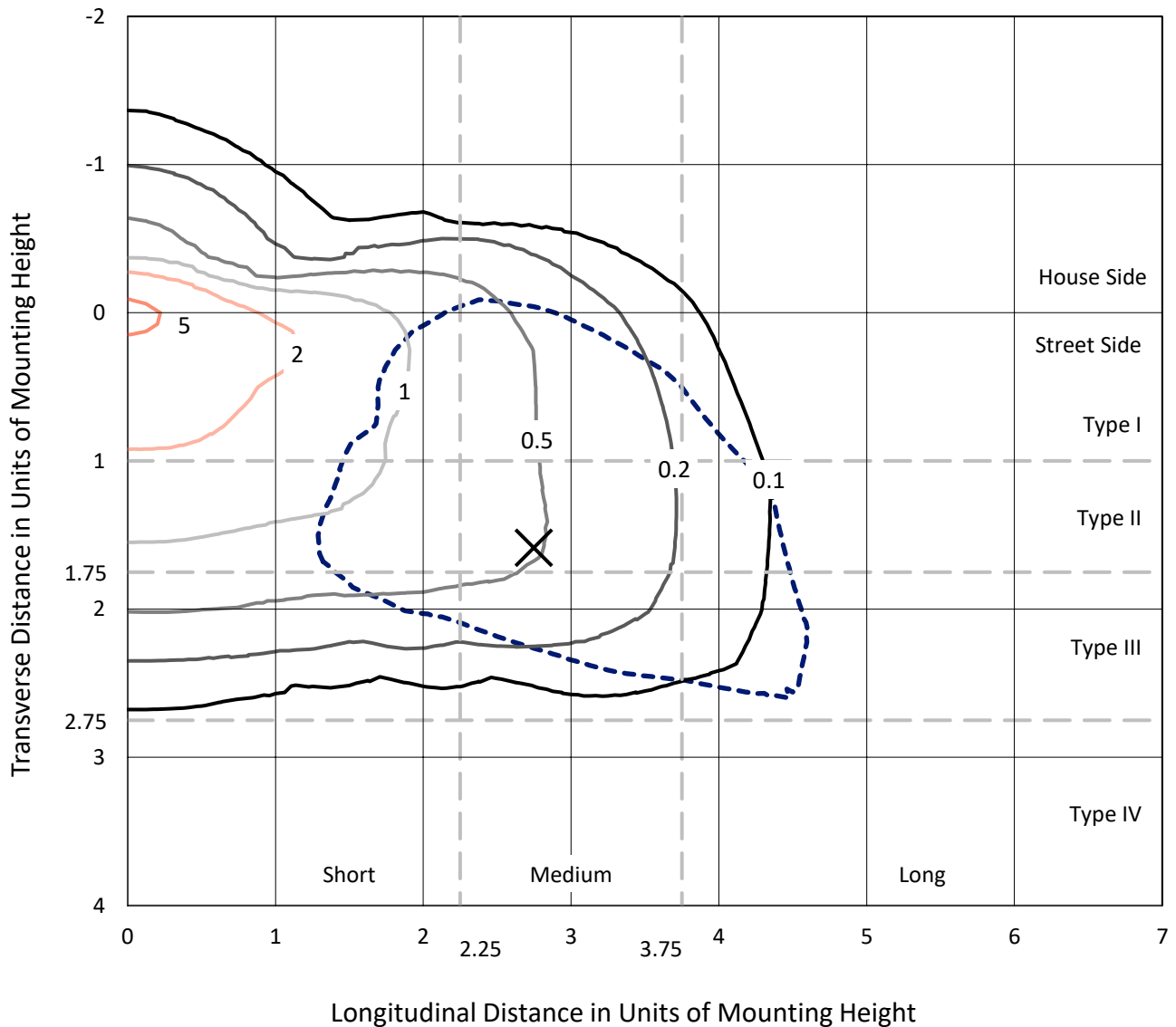
Lumens per Lamp: N/A
Luminaire Lumens: 4811.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

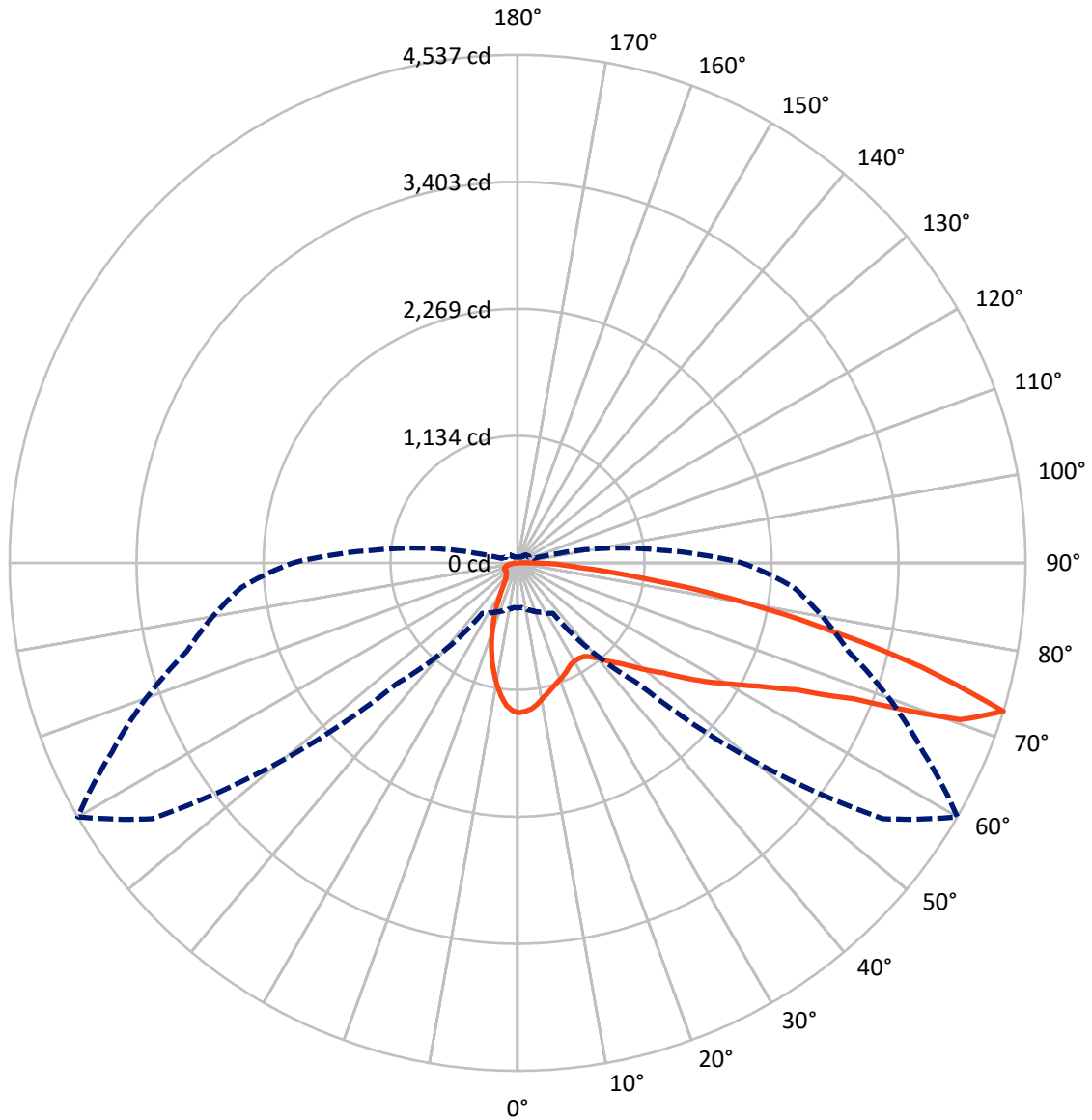
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.5	0.0	826.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3985.0	0.0	3985.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	4811.6	0.0	4811.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.4
10°-20°	263.3	5.5
20°-30°	337.0	7.0
30°-40°	431.1	9.0
40°-50°	591.3	12.3
50°-60°	855.3	17.8
60°-70°	1173.3	24.4
70°-80°	880.4	18.3
80°-90°	163.6	3.4
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°	4811.6	100.0
0°-180°	4811.6	100.0

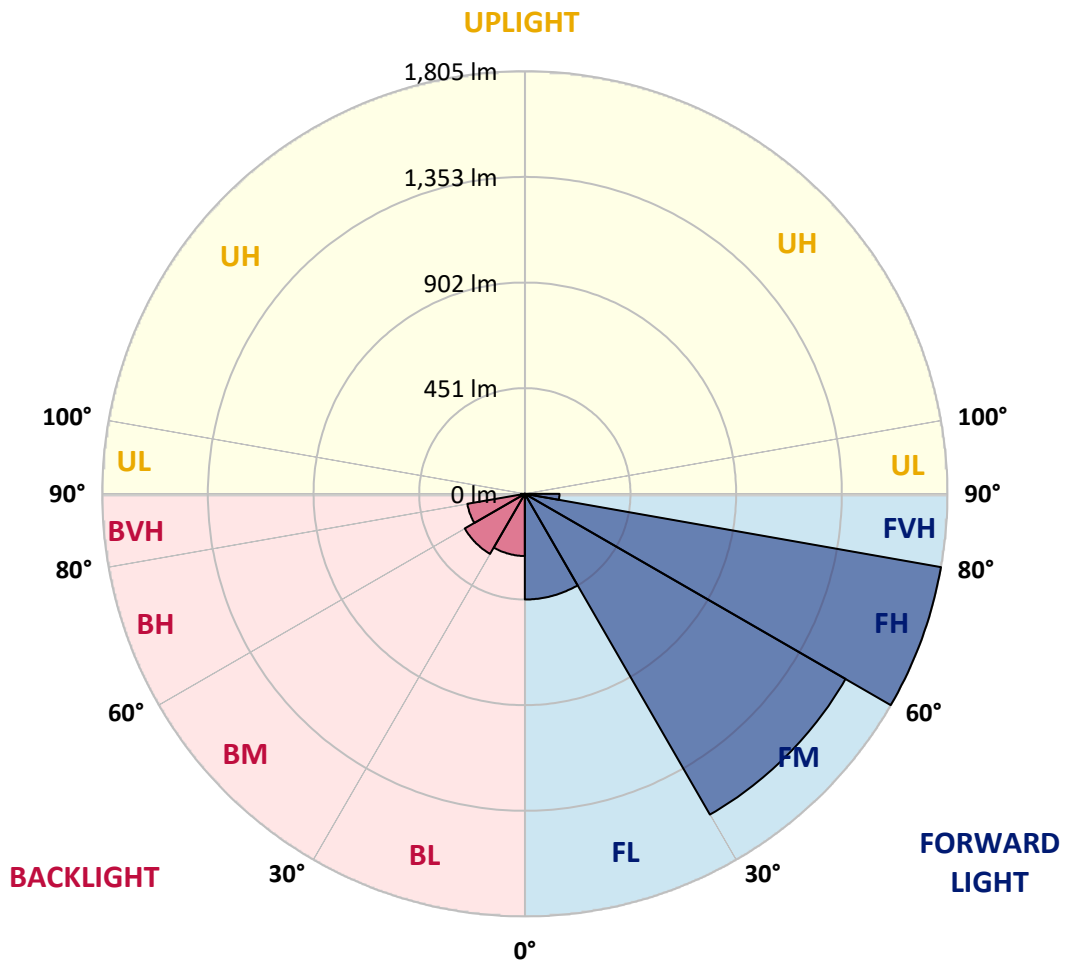


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.2	9.4			
FM (30°-60°)	1581.5	32.9			
FH (60°-80°)	1804.6	37.5			G2/5000
FVH (80°-90°)	147.7	3.1			G2/225
BL (0°-30°)	265.3	5.5	B1/500		
BM (30°-60°)	296.2	6.2	B1/1000		
BH (60°-80°)	249.1	5.2	B1/500		G1/500
BVH (80°-90°)	15.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1311.1	1323.7	1327.3	1327.3	1338.0	1325.5	1343.4	1329.0	1332.6	1338.0	1334.4
5°	1248.4	1269.9	1257.4	1280.7	1271.7	1287.8	1309.3	1309.3	1304.0	1314.7	1305.8
7.5°	1187.5	1180.4	1201.9	1201.9	1216.2	1237.7	1255.6	1273.5	1275.3	1278.9	1277.1
10°	1105.1	1114.1	1124.9	1139.2	1157.1	1178.6	1216.2	1230.5	1234.1	1255.6	1250.2
12.5°	1037.1	1049.6	1056.8	1085.4	1101.6	1132.0	1175.0	1194.7	1196.5	1226.9	1226.9
15°	986.9	994.1	1010.2	1021.0	1056.8	1099.8	1141.0	1158.9	1178.6	1210.8	1201.9
17.5°	952.9	961.9	969.0	983.3	1017.4	1053.2	1117.7	1128.4	1151.7	1198.3	1187.5
20°	933.2	935.0	945.7	954.7	985.1	1019.2	1076.5	1105.1	1135.6	1176.8	1166.0
22.5°	936.8	929.6	927.8	940.4	945.7	978.0	1047.8	1078.3	1121.3	1169.6	1151.7
25°	943.9	945.7	942.2	931.4	933.2	961.9	1008.4	1047.8	1096.2	1167.8	1132.0
27.5°	961.9	970.8	956.5	945.7	935.0	945.7	994.1	1022.8	1076.5	1176.8	1130.2
30°	979.8	988.7	985.1	969.0	947.5	943.9	978.0	1013.8	1065.7	1184.0	1130.2
32.5°	1006.6	1019.2	1006.6	1012.0	986.9	970.8	983.3	1015.6	1076.5	1209.0	1132.0
35°	1037.1	1047.8	1051.4	1038.9	1033.5	1003.1	1010.2	1026.3	1087.2	1237.7	1149.9
37.5°	1071.1	1083.7	1094.4	1096.2	1078.3	1060.4	1056.8	1065.7	1114.1	1287.8	1169.6
40°	1094.4	1101.6	1123.1	1141.0	1146.3	1121.3	1119.5	1119.5	1162.5	1332.6	1205.5
42.5°	1133.8	1130.2	1160.7	1192.9	1201.9	1187.5	1191.1	1205.5	1230.5	1397.1	1262.8
45°	1153.5	1149.9	1185.8	1239.5	1280.7	1273.5	1277.1	1282.5	1305.8	1499.2	1359.5
47.5°	1180.4	1184.0	1235.9	1296.8	1339.8	1364.9	1384.6	1382.8	1400.7	1603.1	1467.0
50°	1207.2	1214.4	1277.1	1341.6	1416.8	1459.8	1488.5	1508.2	1526.1	1712.4	1590.6
52.5°	1259.2	1266.4	1336.2	1406.1	1502.8	1565.5	1637.1	1635.3	1637.1	1821.6	1714.1
55°	1334.4	1336.2	1377.4	1458.0	1588.8	1703.4	1801.9	1812.7	1782.2	1957.7	1855.6
57.5°	1420.4	1427.6	1463.4	1524.3	1656.8	1835.9	1986.4	2007.9	1925.5	2068.8	1984.6
60°	1501.0	1506.4	1561.9	1631.8	1775.0	2002.5	2172.7	2197.8	2108.2	2204.9	2118.9
62.5°	1409.6	1436.5	1535.0	1694.4	1982.8	2255.1	2409.1	2425.2	2285.5	2342.8	2262.2
65°	1128.4	1146.3	1287.8	1545.8	1997.1	2713.6	2774.5	2731.5	2529.1	2520.2	2479.0
67.5°	628.7	643.0	739.8	1010.2	1681.9	2885.6	3560.8	3245.6	2907.1	2787.1	2772.7
70°	496.2	499.7	512.3	567.8	933.2	2543.5	4180.6	4194.9	3525.0	3154.2	2835.4
72.5°	403.0	401.2	438.8	487.2	551.7	1526.1	3985.3	4537.0	3997.9	3057.5	2470.0
75°	308.1	313.5	361.8	431.7	505.1	718.3	2973.3	3732.8	3745.3	2849.7	2083.1
77.5°	234.6	236.4	290.2	381.5	494.4	506.9	1939.8	2781.7	2794.2	2206.7	1148.1
80°	175.5	175.5	220.3	322.4	481.8	467.5	1194.7	1929.1	1746.4	775.6	250.8
82.5°	100.3	107.5	146.9	245.4	437.0	449.6	673.5	1105.1	738.0	211.4	116.4
85°	53.7	55.5	89.6	164.8	360.0	429.9	514.1	549.9	293.8	112.8	53.7
87.5°	19.7	19.7	41.2	84.2	227.5	318.8	408.4	351.1	168.4	51.9	26.9
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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1338.0	1330.8	1325.5	1330.8	1311.1	1302.2	1312.9	1307.6	1296.8	1291.4	1287.8
5°	1311.1	1302.2	1293.2	1287.8	1266.4	1244.9	1234.1	1212.6	1194.7	1200.1	1189.3
7.5°	1282.5	1273.5	1246.7	1221.6	1178.6	1135.6	1115.9	1085.4	1074.7	1065.7	1060.4
10°	1246.7	1230.5	1189.3	1139.2	1076.5	1028.1	978.0	942.2	904.5	888.4	893.8
12.5°	1201.9	1192.9	1128.4	1051.4	963.6	883.0	823.9	766.6	716.5	689.6	682.4
15°	1182.2	1155.3	1062.2	960.1	849.0	748.7	660.9	560.6	501.5	472.9	472.9
17.5°	1160.7	1110.5	999.5	859.8	732.6	603.6	480.0	388.7	342.1	326.0	326.0
20°	1126.6	1071.1	926.0	764.8	610.8	455.0	343.9	293.8	279.4	268.7	270.5
22.5°	1101.6	1033.5	858.0	671.7	483.6	338.5	270.5	254.3	249.0	245.4	247.2
25°	1072.9	988.7	786.3	571.4	379.7	266.9	234.6	227.5	231.1	232.9	232.9
27.5°	1049.6	951.1	712.9	463.9	286.6	225.7	211.4	209.6	216.7	220.3	222.1
30°	1033.5	917.1	641.2	365.4	229.3	200.6	193.4	193.4	202.4	206.0	207.8
32.5°	1017.4	888.4	564.2	279.4	195.2	179.1	177.3	179.1	184.5	184.5	186.3
35°	1022.8	861.6	490.8	225.7	175.5	164.8	164.8	164.8	166.6	168.4	168.4
37.5°	1033.5	854.4	412.0	189.9	161.2	154.0	154.0	152.2	154.0	152.2	154.0
40°	1044.2	843.6	340.3	168.4	152.2	146.9	145.1	141.5	139.7	139.7	141.5
42.5°	1089.0	858.0	279.4	154.0	145.1	141.5	136.1	132.5	130.8	130.8	130.8
45°	1146.3	884.8	231.1	146.9	139.7	130.8	127.2	125.4	121.8	123.6	125.4
47.5°	1232.3	926.0	202.4	141.5	134.3	123.6	120.0	116.4	116.4	120.0	120.0
50°	1345.2	994.1	184.5	136.1	129.0	118.2	112.8	111.1	111.1	116.4	116.4
52.5°	1467.0	1072.9	177.3	134.3	123.6	112.8	107.5	105.7	105.7	112.8	112.8
55°	1588.8	1169.6	182.7	134.3	120.0	107.5	102.1	98.5	100.3	105.7	105.7
57.5°	1723.1	1273.5	209.6	134.3	116.4	105.7	98.5	93.1	94.9	96.7	96.7
60°	1870.0	1409.6	256.1	134.3	114.6	102.1	93.1	86.0	86.0	87.8	87.8
62.5°	2018.6	1544.0	322.4	136.1	116.4	100.3	86.0	78.8	77.0	78.8	78.8
65°	2213.9	1758.9	388.7	136.1	121.8	96.7	80.6	71.6	69.9	69.9	71.6
67.5°	2487.9	1913.0	300.9	130.8	125.4	96.7	75.2	66.3	62.7	62.7	62.7
70°	2342.8	1613.8	191.7	121.8	120.0	100.3	71.6	60.9	57.3	55.5	55.5
72.5°	2006.1	1291.4	154.0	114.6	111.1	98.5	68.1	57.3	51.9	50.2	50.2
75°	1608.5	1019.2	134.3	103.9	96.7	82.4	62.7	51.9	48.4	44.8	44.8
77.5°	788.1	426.3	102.1	91.3	82.4	62.7	55.5	48.4	43.0	39.4	39.4
80°	197.0	148.7	75.2	71.6	60.9	48.4	44.8	41.2	37.6	34.0	34.0
82.5°	105.7	87.8	53.7	48.4	41.2	34.0	34.0	32.2	30.4	26.9	25.1
85°	53.7	51.9	35.8	32.2	26.9	21.5	23.3	23.3	21.5	16.1	16.1
87.5°	28.7	28.7	17.9	14.3	12.5	10.7	10.7	10.7	9.0	7.2	7.2
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)