

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: P676910

Luminaire Tested: **CCW-SA-1F-835-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676910
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

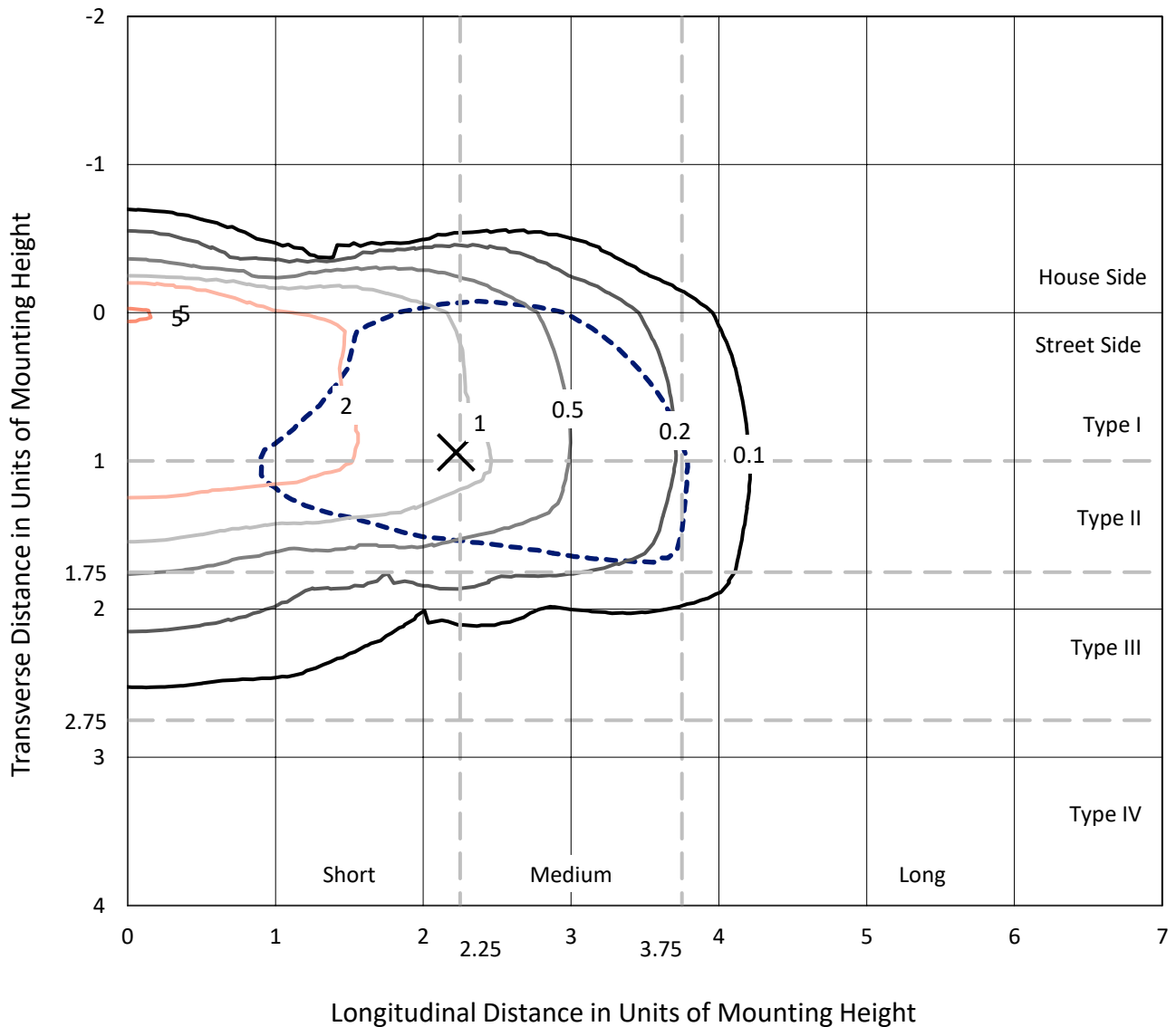
Lumens per Lamp: N/A
Luminaire Lumens: 4968.2 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

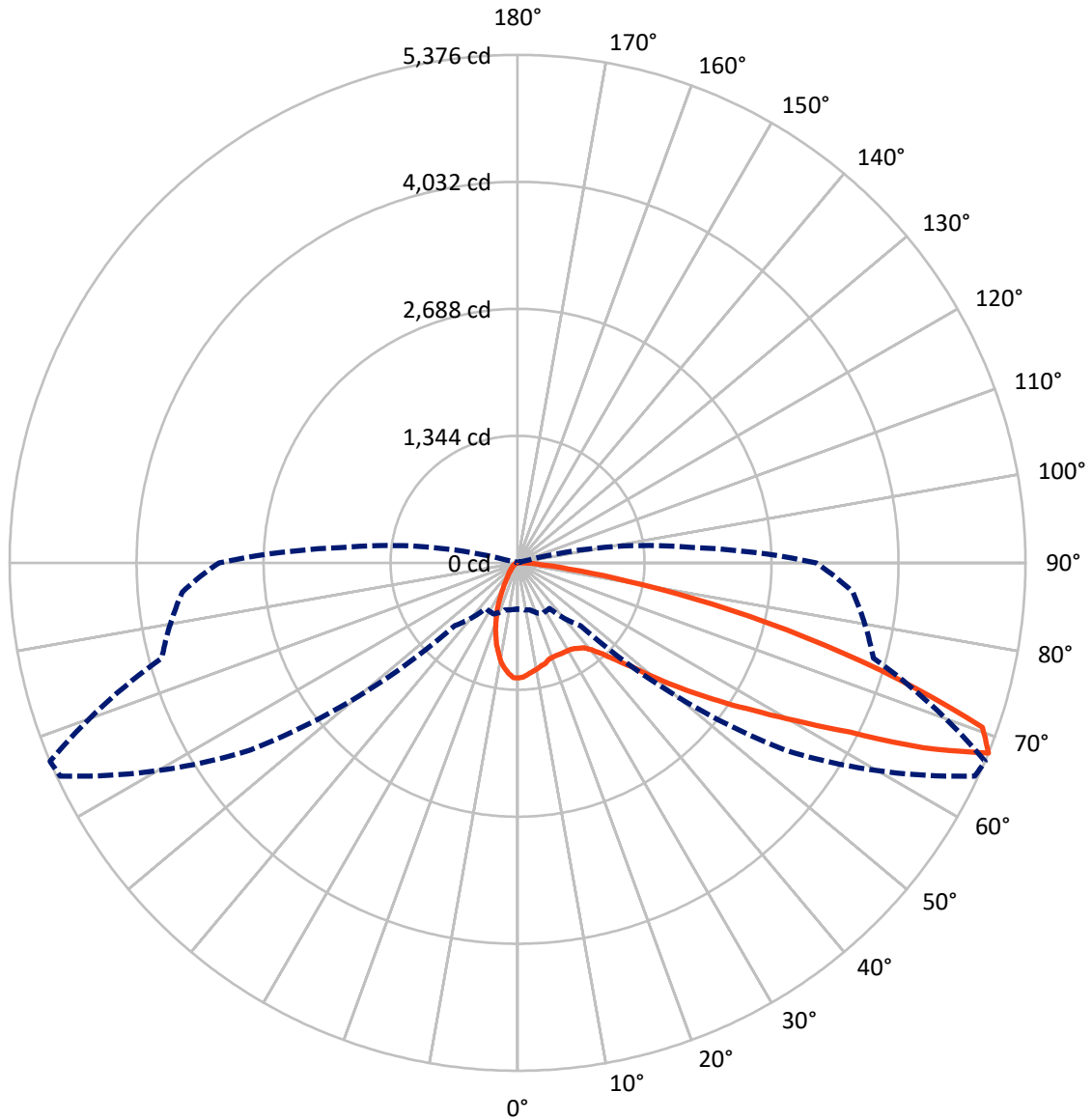
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.3	0.0	625.3
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4342.9	0.0	4342.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	4968.2	0.0	4968.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	2.1
10°-20°	228.1	4.6
20°-30°	324.3	6.5
30°-40°	472.3	9.5
40°-50°	730.9	14.7
50°-60°	1121.7	22.6
60°-70°	1216.0	24.5
70°-80°	686.0	13.8
80°-90°	86.2	1.7
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°	4968.2	100.0
0°-180°	4968.2	100.0

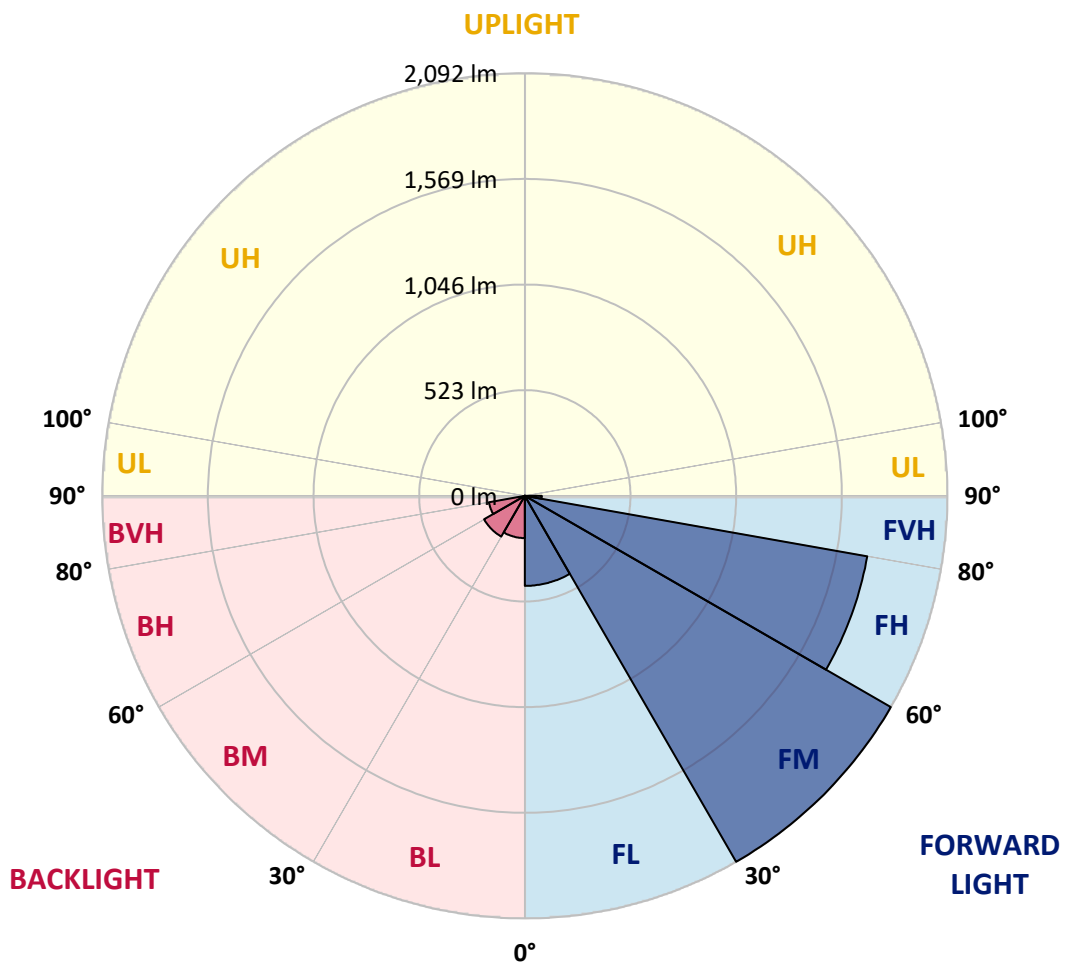


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.8	9.0			
FM (30°-60°)	2092.0	42.1			
FH (60°-80°)	1721.4	34.6			G1/1800
FVH (80°-90°)	83.7	1.7			G1/100
BL (0°-30°)	209.3	4.2	B1/500		
BM (30°-60°)	232.9	4.7	B1/1000		
BH (60°-80°)	180.6	3.6	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1165.9	1171.9	1180.3	1192.3	1200.6	1195.9	1199.4	1219.8	1209.0	1218.6	1213.8
5°	1101.3	1107.3	1119.2	1118.0	1127.6	1145.6	1169.5	1195.9	1183.9	1212.6	1223.4
7.5°	1034.2	1031.9	1031.9	1057.0	1077.3	1102.5	1115.6	1158.7	1159.9	1185.1	1211.4
10°	973.2	980.4	992.4	1001.9	1021.1	1057.0	1095.3	1128.8	1142.0	1192.3	1199.4
12.5°	936.1	939.7	954.0	962.4	987.6	1022.3	1063.0	1106.1	1116.8	1168.3	1203.0
15°	920.5	928.9	933.7	949.3	962.4	994.7	1024.7	1073.8	1104.9	1145.6	1188.7
17.5°	932.5	928.9	931.3	936.1	951.7	980.4	1012.7	1061.8	1072.6	1140.8	1205.4
20°	948.1	949.3	942.1	939.7	936.1	963.6	990.0	1053.4	1065.4	1140.8	1216.2
22.5°	990.0	976.8	990.0	970.8	951.7	963.6	988.8	1054.6	1063.0	1139.6	1227.0
25°	1041.4	1043.8	1047.4	1006.7	979.2	970.8	997.1	1058.2	1065.4	1149.2	1231.8
27.5°	1114.5	1125.2	1107.3	1086.9	1031.9	990.0	995.9	1055.8	1069.0	1144.4	1243.7
30°	1212.6	1204.2	1206.6	1159.9	1106.1	1040.2	1023.5	1061.8	1071.4	1150.4	1266.5
32.5°	1297.6	1288.0	1304.8	1288.0	1203.0	1112.1	1055.8	1073.8	1084.5	1164.7	1285.6
35°	1350.3	1362.2	1388.6	1406.5	1334.7	1205.4	1109.7	1106.1	1110.9	1171.9	1300.0
37.5°	1431.7	1453.2	1474.8	1520.3	1458.0	1320.3	1194.7	1148.0	1139.6	1206.6	1307.2
40°	1520.3	1514.3	1577.7	1631.6	1629.2	1481.9	1313.2	1222.2	1210.2	1261.7	1355.1
42.5°	1594.5	1588.5	1659.1	1747.7	1757.3	1637.6	1448.4	1327.5	1316.8	1346.7	1413.7
45°	1691.4	1696.2	1780.0	1885.4	1920.1	1843.5	1631.6	1478.4	1472.4	1462.8	1525.0
47.5°	1777.6	1804.0	1875.8	2000.3	2126.0	2056.5	1847.0	1698.6	1656.7	1635.2	1697.4
50°	1837.5	1861.4	1948.8	2081.7	2311.5	2355.8	2088.8	1933.2	1934.4	1881.8	1915.3
52.5°	1837.5	1836.3	1906.9	2081.7	2440.8	2668.2	2412.1	2228.9	2238.5	2183.4	2185.8
55°	1660.3	1656.7	1742.9	1928.4	2426.4	2968.7	2901.6	2603.6	2579.6	2473.1	2483.9
57.5°	1337.1	1345.5	1411.3	1634.0	2239.7	3108.7	3484.6	3024.9	2943.5	2723.3	2723.3
60°	975.6	968.4	1017.5	1173.1	1794.4	3056.1	3963.4	3521.7	3393.6	2930.4	2899.3
62.5°	742.2	741.0	754.1	806.8	1138.4	2664.6	4169.3	4153.8	3945.5	3133.9	3089.6
65°	599.7	602.1	620.1	657.2	695.5	1817.1	4060.4	4907.9	4717.6	3436.7	3291.9
67.5°	489.6	495.6	517.1	597.3	588.9	940.9	3458.3	5340.0	5375.9	3898.8	3563.6
70°	377.1	386.6	411.8	525.5	567.4	626.1	2397.7	5124.6	5220.3	4186.1	3399.6
72.5°	256.2	255.0	308.8	426.1	573.4	573.4	1334.7	4127.4	4218.4	3859.3	2953.1
75°	138.9	147.2	204.7	322.0	525.5	554.2	760.1	3020.2	3148.2	3001.0	2284.0
77.5°	75.4	76.6	113.7	210.7	436.9	529.1	507.5	2054.1	2104.4	1809.9	1250.9
80°	39.5	40.7	59.9	137.7	301.7	490.8	422.6	1224.6	1176.7	694.3	413.0
82.5°	18.0	19.2	29.9	86.2	192.7	386.6	365.1	591.3	545.9	193.9	125.7
85°	7.2	7.2	13.2	51.5	112.5	190.3	312.4	296.9	247.8	58.7	62.2
87.5°	2.4	2.4	3.6	20.3	45.5	113.7	166.4	156.8	107.7	21.5	33.5
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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1209.0	1222.2	1218.6	1216.2	1193.5	1191.1	1188.7	1167.1	1174.3	1156.3	1168.3
5°	1216.2	1223.4	1204.2	1168.3	1136.0	1100.1	1072.6	1053.4	1018.7	1005.5	1003.1
7.5°	1209.0	1209.0	1169.5	1112.1	1048.6	990.0	915.7	863.1	823.6	793.6	804.4
10°	1199.4	1185.1	1144.4	1042.6	927.7	839.1	732.6	654.8	596.1	577.0	565.0
12.5°	1199.4	1174.3	1083.3	944.5	796.0	662.0	535.1	433.3	377.1	343.6	338.8
15°	1188.7	1151.6	1039.0	852.3	668.0	486.0	341.2	253.8	205.9	192.7	187.9
17.5°	1191.1	1146.8	973.2	743.4	518.3	323.2	208.3	160.4	148.4	142.4	143.6
20°	1195.9	1146.8	914.5	636.8	373.5	201.1	143.6	135.3	129.3	126.9	128.1
22.5°	1211.4	1124.0	854.7	527.9	252.6	144.8	126.9	118.5	113.7	110.1	108.9
25°	1213.8	1120.4	797.2	420.2	173.6	122.1	111.3	101.7	95.8	91.0	89.8
27.5°	1210.2	1104.9	717.0	312.4	130.5	108.9	94.6	85.0	76.6	73.0	71.8
30°	1223.4	1076.1	648.8	225.0	110.1	94.6	80.2	69.4	62.2	57.5	57.5
32.5°	1224.6	1051.0	573.4	160.4	100.6	83.8	68.2	56.3	49.1	46.7	46.7
35°	1225.8	1028.3	489.6	122.1	89.8	71.8	56.3	46.7	41.9	38.3	38.3
37.5°	1229.4	1011.5	413.0	102.9	80.2	61.0	46.7	38.3	33.5	32.3	32.3
40°	1236.6	988.8	332.8	91.0	69.4	51.5	39.5	32.3	27.5	26.3	25.1
42.5°	1255.7	982.8	265.7	81.4	62.2	43.1	32.3	26.3	22.7	20.3	19.2
45°	1334.7	998.3	205.9	75.4	52.7	35.9	27.5	21.5	16.8	15.6	14.4
47.5°	1464.0	1049.8	162.8	67.0	44.3	29.9	22.7	16.8	13.2	12.0	10.8
50°	1660.3	1167.1	132.9	59.9	37.1	25.1	18.0	13.2	9.6	8.4	8.4
52.5°	1917.7	1325.1	114.9	52.7	29.9	21.5	14.4	9.6	7.2	6.0	6.0
55°	2181.0	1511.9	107.7	45.5	25.1	18.0	10.8	7.2	4.8	3.6	3.6
57.5°	2422.8	1632.8	104.1	37.1	21.5	13.2	8.4	4.8	2.4	1.2	1.2
60°	2573.7	1721.4	93.4	29.9	16.8	10.8	6.0	2.4	1.2	0.0	0.0
62.5°	2772.4	1811.1	76.6	22.7	12.0	7.2	3.6	1.2	0.0	0.0	0.0
65°	3034.5	1911.7	59.9	18.0	9.6	4.8	2.4	1.2	0.0	0.0	0.0
67.5°	3160.2	1859.0	40.7	13.2	6.0	2.4	1.2	0.0	0.0	0.0	0.0
70°	2908.8	1565.7	28.7	9.6	3.6	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	2445.6	1227.0	21.5	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	1802.8	767.3	16.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	956.4	286.1	12.0	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	282.5	83.8	8.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.4	25.1	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.9	9.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.5	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)