

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: P676835

Luminaire Tested: **CCW-SA-2B-730-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676835
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-730-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

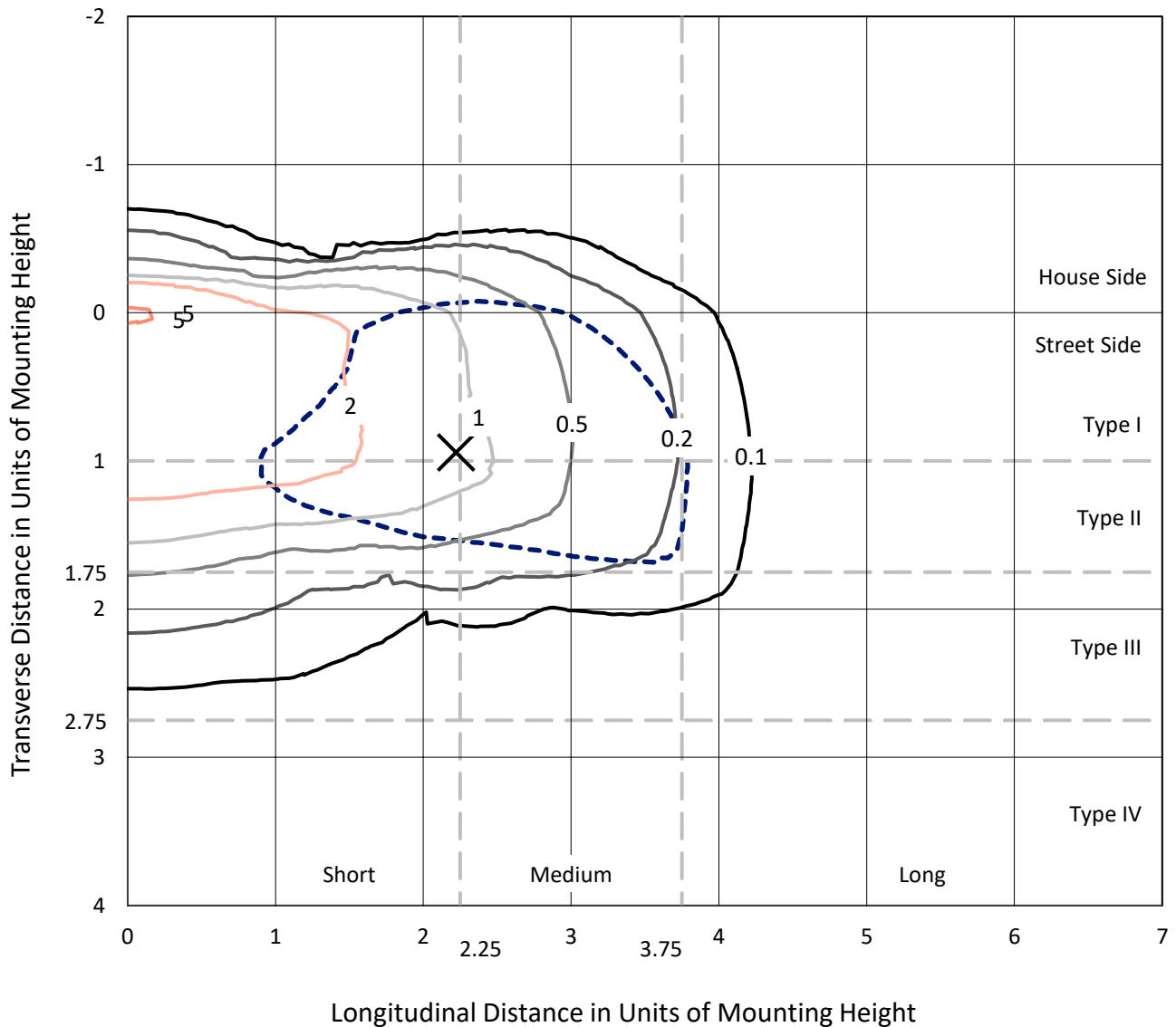
Lumens per Lamp: N/A
Luminaire Lumens: 5057.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

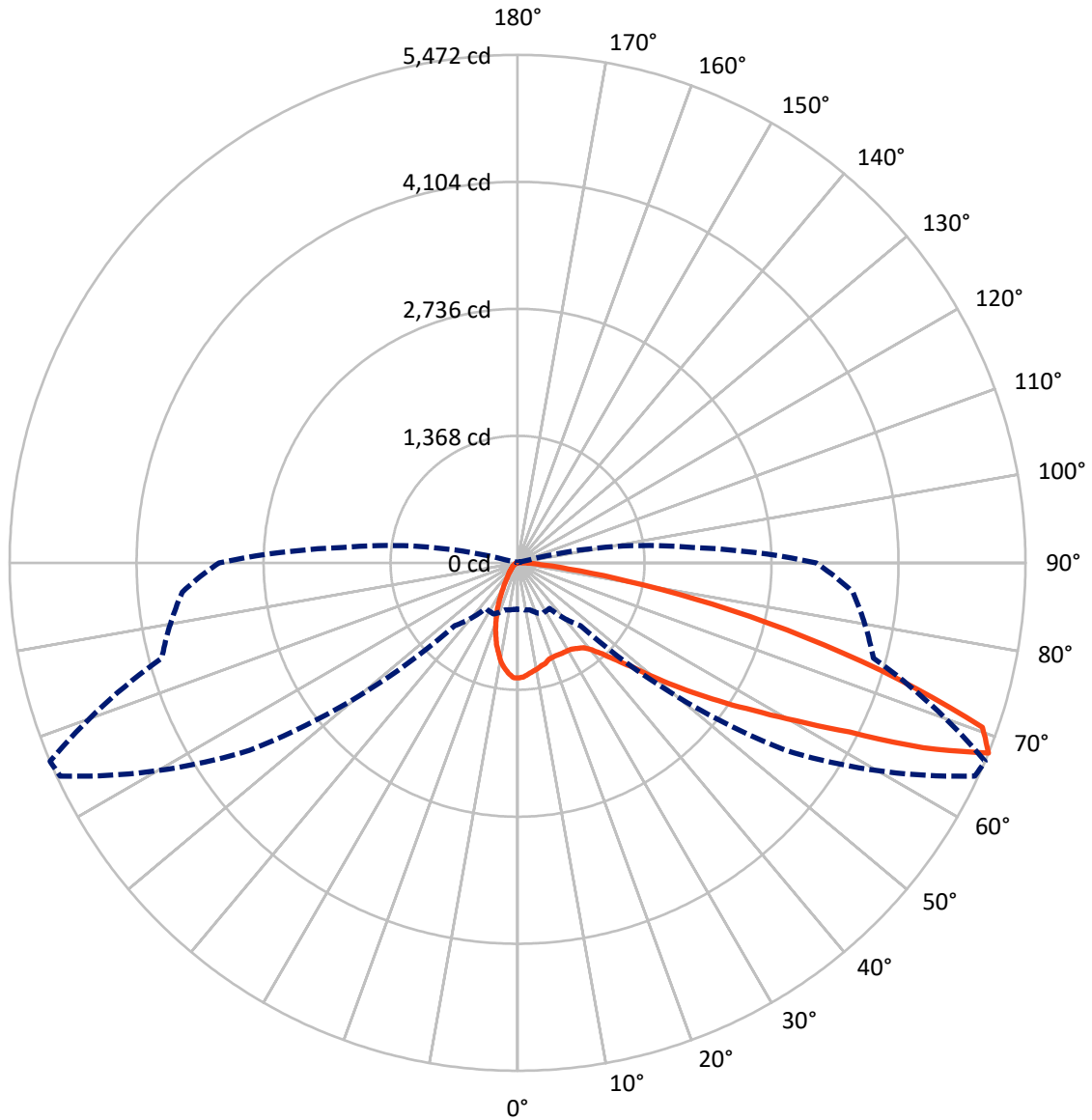
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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	636.5	0.0	636.5
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4420.7	0.0	4420.7
	% Fixture	87.4	0.0	87.4
Total	Lumens	5057.2	0.0	5057.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	2.1
10°-20°	232.2	4.6
20°-30°	330.1	6.5
30°-40°	480.7	9.5
40°-50°	744.0	14.7
50°-60°	1141.8	22.6
60°-70°	1237.8	24.5
70°-80°	698.3	13.8
80°-90°	87.7	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°	5057.2	100.0
0°-180°	5057.2	100.0

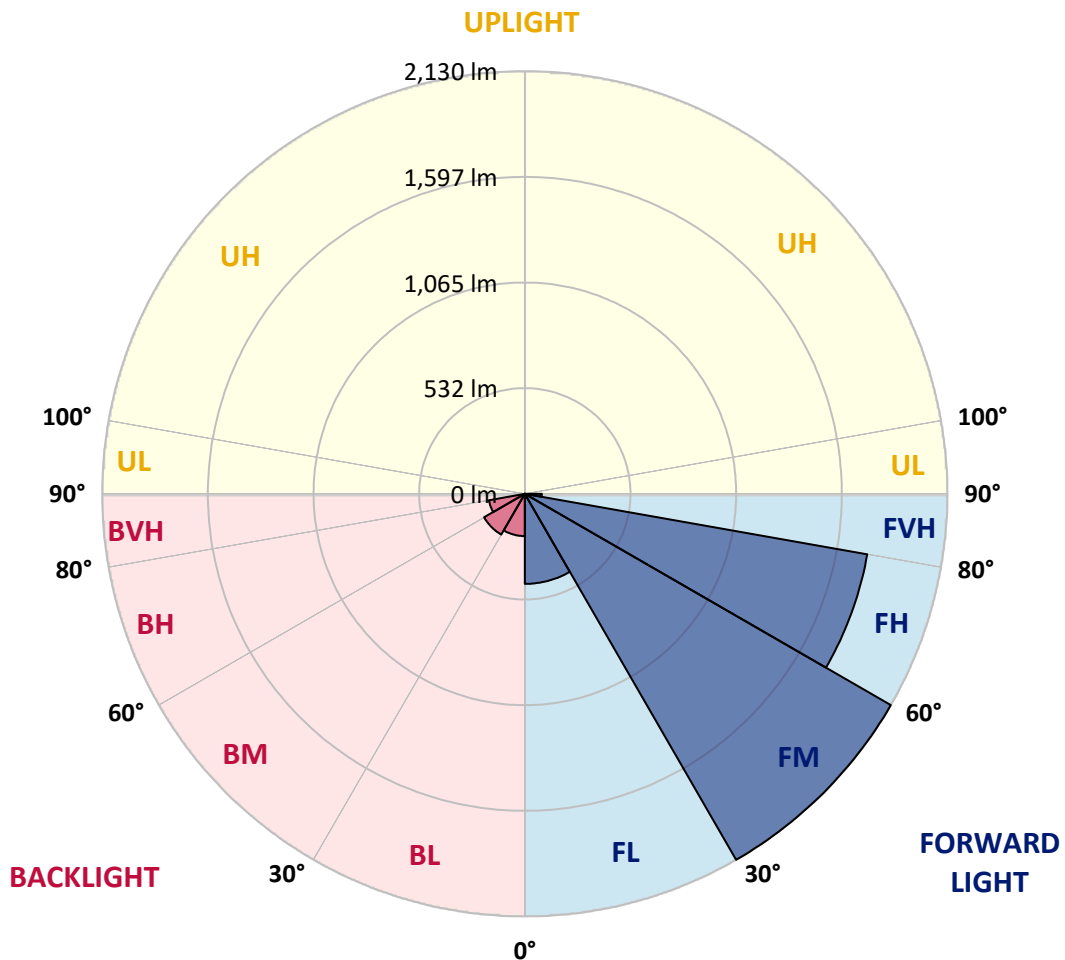


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.8	9.0			
FM (30°-60°)	2129.5	42.1			
FH (60°-80°)	1752.2	34.6			G1/1800
FVH (80°-90°)	85.2	1.7			G1/100
BL (0°-30°)	213.0	4.2	B1/500		
BM (30°-60°)	237.1	4.7	B1/1000		
BH (60°-80°)	183.8	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°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1186.8	1192.9	1201.4	1213.6	1222.2	1217.3	1220.9	1241.6	1230.7	1240.4	1235.6
5°	1121.0	1127.1	1139.3	1138.1	1147.8	1166.1	1190.5	1217.3	1205.1	1234.3	1245.3
7.5°	1052.8	1050.3	1050.3	1075.9	1096.6	1122.2	1135.6	1179.5	1180.7	1206.3	1233.1
10°	990.6	997.9	1010.1	1019.9	1039.4	1075.9	1114.9	1149.0	1162.4	1213.6	1220.9
12.5°	952.9	956.5	971.1	979.7	1005.3	1040.6	1082.0	1125.9	1136.9	1189.3	1224.6
15°	937.0	945.6	950.4	966.3	979.7	1012.6	1043.0	1093.0	1124.7	1166.1	1210.0
17.5°	949.2	945.6	948.0	952.9	968.7	997.9	1030.8	1080.8	1091.8	1161.2	1227.0
20°	965.1	966.3	959.0	956.5	952.9	980.9	1007.7	1072.3	1084.5	1161.2	1238.0
22.5°	1007.7	994.3	1007.7	988.2	968.7	980.9	1006.5	1073.5	1082.0	1160.0	1249.0
25°	1060.1	1062.5	1066.2	1024.8	996.7	988.2	1015.0	1077.2	1084.5	1169.8	1253.8
27.5°	1134.4	1145.4	1127.1	1106.4	1050.3	1007.7	1013.8	1074.7	1088.1	1164.9	1266.0
30°	1234.3	1225.8	1228.2	1180.7	1125.9	1058.9	1041.8	1080.8	1090.6	1171.0	1289.2
32.5°	1320.9	1311.1	1328.2	1311.1	1224.6	1132.0	1074.7	1093.0	1104.0	1185.6	1308.7
35°	1374.5	1386.7	1413.5	1431.7	1358.6	1227.0	1129.5	1125.9	1130.8	1192.9	1323.3
37.5°	1457.3	1479.3	1501.2	1547.5	1484.1	1344.0	1216.1	1168.5	1160.0	1228.2	1330.6
40°	1547.5	1541.4	1606.0	1660.8	1658.4	1508.5	1336.7	1244.1	1231.9	1284.3	1379.3
42.5°	1623.0	1616.9	1688.8	1779.0	1788.8	1666.9	1474.4	1351.3	1340.3	1370.8	1439.0
45°	1721.7	1726.6	1811.9	1919.1	1954.5	1876.5	1660.8	1504.8	1498.8	1489.0	1552.4
47.5°	1809.5	1836.3	1909.4	2036.1	2164.1	2093.4	1880.1	1729.0	1686.4	1664.5	1727.8
50°	1870.4	1894.8	1983.7	2119.0	2352.9	2398.0	2126.3	1967.9	1969.1	1915.5	1949.6
52.5°	1870.4	1869.2	1941.1	2119.0	2484.5	2716.0	2455.3	2268.8	2278.6	2222.5	2225.0
55°	1690.1	1686.4	1774.1	1963.0	2469.9	3021.9	2953.6	2650.2	2625.9	2517.4	2528.4
57.5°	1361.1	1369.6	1436.6	1663.2	2279.8	3164.4	3547.0	3079.1	2996.3	2772.1	2772.1
60°	993.1	985.8	1035.7	1194.1	1826.5	3110.8	4034.4	3584.8	3454.4	2982.9	2951.2
62.5°	755.5	754.2	767.7	821.3	1158.8	2712.4	4244.0	4228.2	4016.2	3190.0	3144.9
65°	610.5	612.9	631.2	669.0	707.9	1849.7	4133.1	4995.8	4802.1	3498.3	3350.9
67.5°	498.4	504.5	526.4	608.0	599.5	957.7	3520.2	5435.7	5472.3	3968.6	3627.5
70°	383.8	393.6	419.2	534.9	577.6	637.3	2440.7	5216.4	5313.9	4261.1	3460.5
72.5°	260.8	259.5	314.4	433.8	583.7	583.7	1358.6	4201.4	4294.0	3928.4	3006.0
75°	141.3	149.9	208.4	327.8	534.9	564.2	773.7	3074.3	3204.6	3054.8	2324.9
77.5°	76.8	78.0	115.8	214.5	444.8	538.6	516.6	2090.9	2142.1	1842.4	1273.3
80°	40.2	41.4	60.9	140.1	307.1	499.6	430.1	1246.5	1197.8	706.7	420.4
82.5°	18.3	19.5	30.5	87.7	196.2	393.6	371.6	601.9	555.6	197.4	127.9
85°	7.3	7.3	13.4	52.4	114.5	193.7	318.0	302.2	252.2	59.7	63.4
87.5°	2.4	2.4	3.7	20.7	46.3	115.8	169.4	159.6	109.7	21.9	34.1
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°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1230.7	1244.1	1240.4	1238.0	1214.8	1212.4	1210.0	1188.0	1195.3	1177.1	1189.3
5°	1238.0	1245.3	1225.8	1189.3	1156.4	1119.8	1091.8	1072.3	1036.9	1023.5	1021.1
7.5°	1230.7	1230.7	1190.5	1132.0	1067.4	1007.7	932.2	878.5	838.3	807.9	818.8
10°	1220.9	1206.3	1164.9	1061.3	944.3	854.2	745.7	666.5	606.8	587.3	575.1
12.5°	1220.9	1195.3	1102.7	961.4	810.3	673.8	544.7	441.1	383.8	349.7	344.8
15°	1210.0	1172.2	1057.7	867.6	679.9	494.7	347.3	258.3	209.6	196.2	191.3
17.5°	1212.4	1167.3	990.6	756.7	527.6	329.0	212.0	163.3	151.1	145.0	146.2
20°	1217.3	1167.3	930.9	648.2	380.2	204.7	146.2	137.7	131.6	129.2	130.4
22.5°	1233.1	1144.2	870.0	537.4	257.1	147.4	129.2	120.6	115.8	112.1	110.9
25°	1235.6	1140.5	811.5	427.7	176.7	124.3	113.3	103.6	97.5	92.6	91.4
27.5°	1231.9	1124.7	729.9	318.0	132.8	110.9	96.3	86.5	78.0	74.3	73.1
30°	1245.3	1095.4	660.4	229.1	112.1	96.3	81.6	70.7	63.4	58.5	58.5
32.5°	1246.5	1069.8	583.7	163.3	102.4	85.3	69.5	57.3	50.0	47.5	47.5
35°	1247.7	1046.7	498.4	124.3	91.4	73.1	57.3	47.5	42.6	39.0	39.0
37.5°	1251.4	1029.6	420.4	104.8	81.6	62.1	47.5	39.0	34.1	32.9	32.9
40°	1258.7	1006.5	338.7	92.6	70.7	52.4	40.2	32.9	28.0	26.8	25.6
42.5°	1278.2	1000.4	270.5	82.9	63.4	43.9	32.9	26.8	23.2	20.7	19.5
45°	1358.6	1016.2	209.6	76.8	53.6	36.6	28.0	21.9	17.1	15.8	14.6
47.5°	1490.2	1068.6	165.7	68.2	45.1	30.5	23.2	17.1	13.4	12.2	11.0
50°	1690.1	1188.0	135.3	60.9	37.8	25.6	18.3	13.4	9.7	8.5	8.5
52.5°	1952.0	1348.9	117.0	53.6	30.5	21.9	14.6	9.7	7.3	6.1	6.1
55°	2220.1	1539.0	109.7	46.3	25.6	18.3	11.0	7.3	4.9	3.7	3.7
57.5°	2466.2	1662.0	106.0	37.8	21.9	13.4	8.5	4.9	2.4	1.2	1.2
60°	2619.8	1752.2	95.0	30.5	17.1	11.0	6.1	2.4	1.2	0.0	0.0
62.5°	2822.0	1843.6	78.0	23.2	12.2	7.3	3.7	1.2	0.0	0.0	0.0
65°	3088.9	1945.9	60.9	18.3	9.7	4.9	2.4	1.2	0.0	0.0	0.0
67.5°	3216.8	1892.3	41.4	13.4	6.1	2.4	1.2	0.0	0.0	0.0	0.0
70°	2960.9	1593.8	29.2	9.7	3.7	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	2489.4	1249.0	21.9	6.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	1835.1	781.1	17.1	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	973.6	291.2	12.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	287.6	85.3	8.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.0	25.6	4.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.7	9.7	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	3.7	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)