

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: P676857

Luminaire Tested: **CCW-SA-2B-740-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676857
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

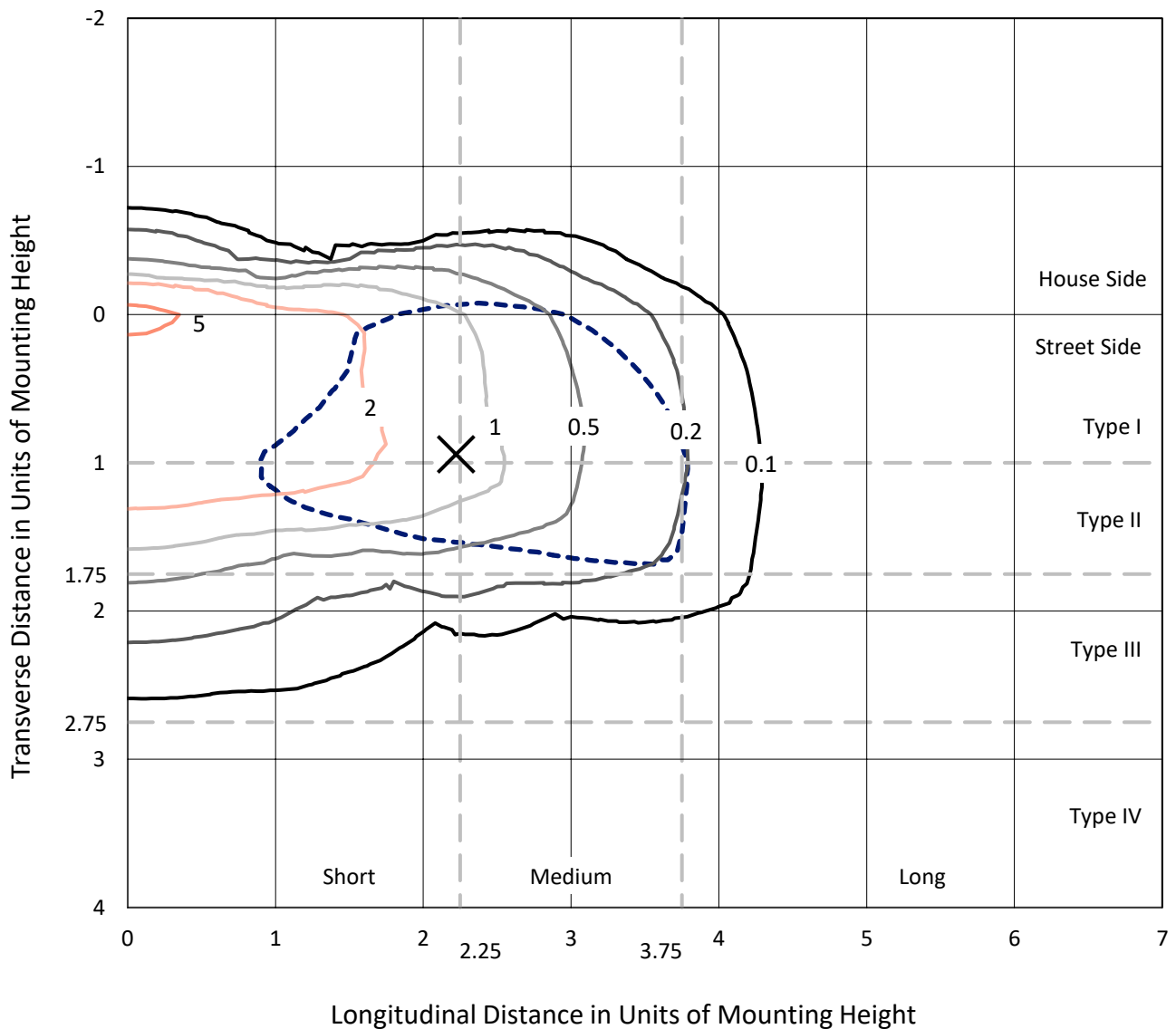
Lumens per Lamp: N/A
Luminaire Lumens: 5553.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

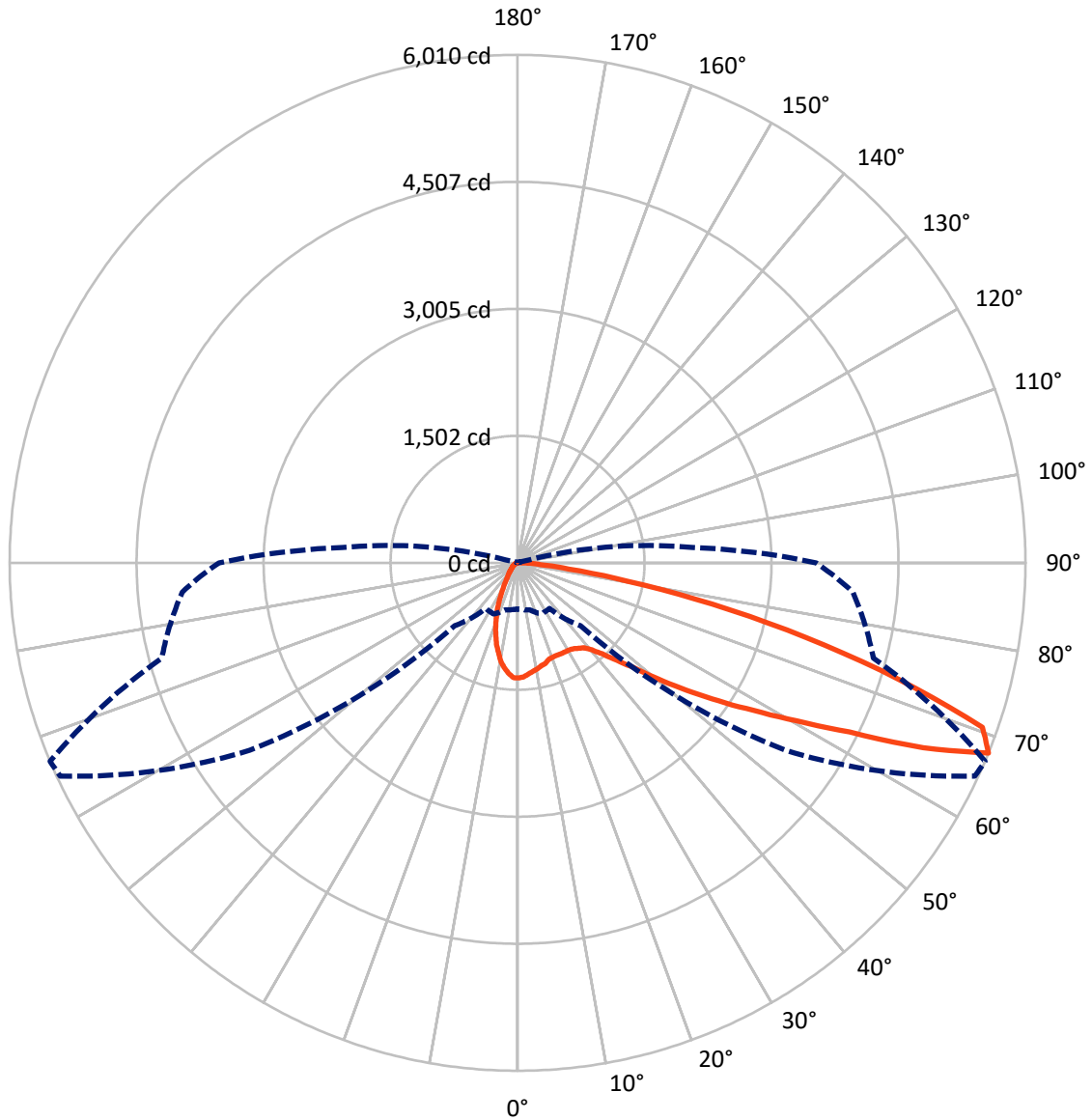
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 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	699.0	0.0	699.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4854.7	0.0	4854.7
	% Fixture	87.4	0.0	87.4
Total	Lumens	5553.7	0.0	5553.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.1
10°-20°	255.0	4.6
20°-30°	362.6	6.5
30°-40°	527.9	9.5
40°-50°	817.1	14.7
50°-60°	1253.9	22.6
60°-70°	1359.3	24.5
70°-80°	766.9	13.8
80°-90°	96.4	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°	5553.7	100.0
0°-180°	5553.7	100.0

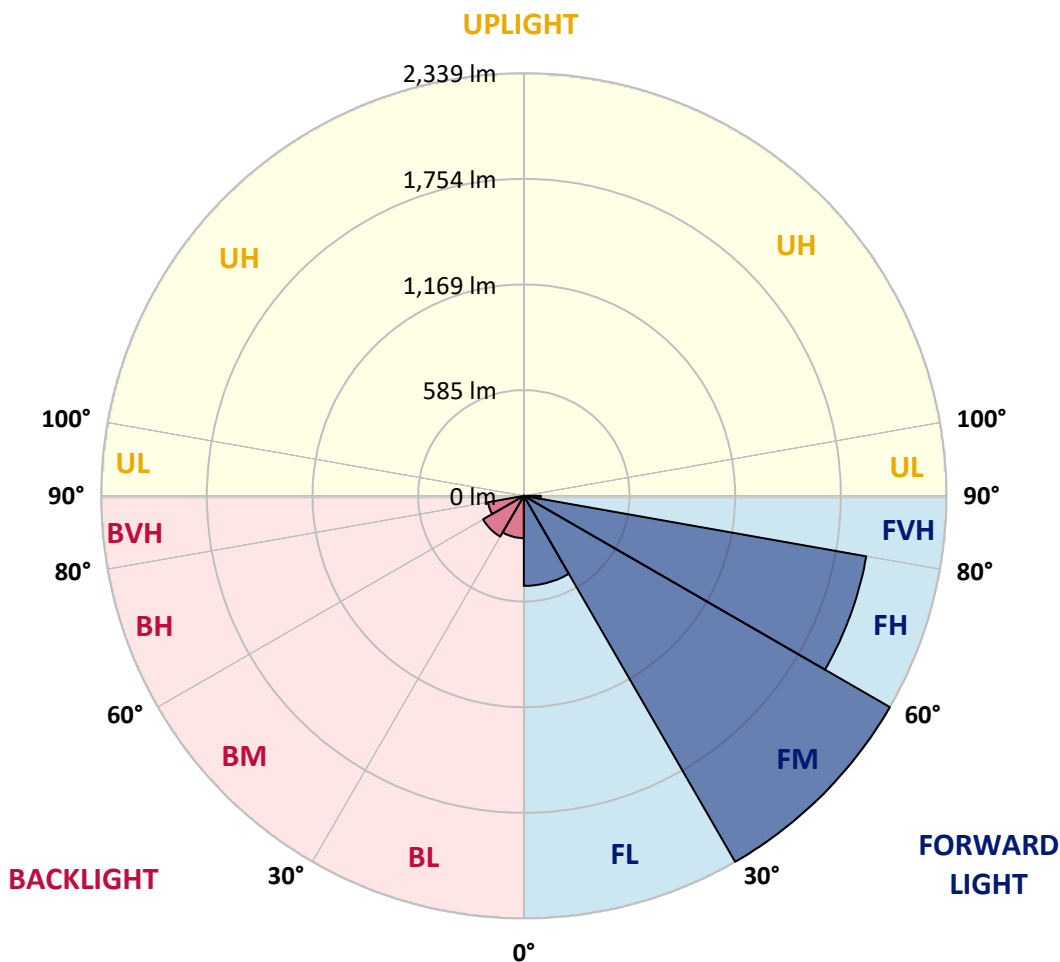


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.3	9.0			
FM (30°-60°)	2338.6	42.1			
FH (60°-80°)	1924.2	34.6			G2/5000
FVH (80°-90°)	93.6	1.7			G1/100
BL (0°-30°)	234.0	4.2	B1/500		
BM (30°-60°)	260.3	4.7	B1/1000		
BH (60°-80°)	201.9	3.6	B1/500		G1/500
BVH (80°-90°)	2.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2
2.5°	1303.3	1310.0	1319.4	1332.8	1342.1	1336.8	1340.8	1363.6	1351.5	1362.2	1356.9
5°	1231.1	1237.8	1251.1	1249.8	1260.5	1280.6	1307.3	1336.8	1323.4	1355.5	1367.6
7.5°	1156.1	1153.5	1153.5	1181.6	1204.3	1232.4	1247.1	1295.3	1296.6	1324.7	1354.2
10°	1087.9	1095.9	1109.3	1120.0	1141.4	1181.6	1224.4	1261.9	1276.6	1332.8	1340.8
12.5°	1046.4	1050.4	1066.5	1075.9	1104.0	1142.8	1188.3	1236.4	1248.5	1306.0	1344.8
15°	1029.0	1038.4	1043.7	1061.1	1075.9	1112.0	1145.4	1200.3	1235.1	1280.6	1328.8
17.5°	1042.4	1038.4	1041.1	1046.4	1063.8	1095.9	1132.1	1186.9	1199.0	1275.2	1347.5
20°	1059.8	1061.1	1053.1	1050.4	1046.4	1077.2	1106.6	1177.6	1190.9	1275.2	1359.5
22.5°	1106.6	1091.9	1106.6	1085.2	1063.8	1077.2	1105.3	1178.9	1188.3	1273.9	1371.6
25°	1164.2	1166.8	1170.9	1125.4	1094.6	1085.2	1114.7	1182.9	1190.9	1284.6	1376.9
27.5°	1245.8	1257.8	1237.8	1215.0	1153.5	1106.6	1113.3	1180.2	1194.9	1279.2	1390.3
30°	1355.5	1346.2	1348.8	1296.6	1236.4	1162.8	1144.1	1186.9	1197.6	1285.9	1415.7
32.5°	1450.5	1439.8	1458.6	1439.8	1344.8	1243.1	1180.2	1200.3	1212.3	1302.0	1437.1
35°	1509.4	1522.8	1552.2	1572.3	1492.0	1347.5	1240.4	1236.4	1241.8	1310.0	1453.2
37.5°	1600.4	1624.5	1648.6	1699.4	1629.8	1476.0	1335.4	1283.3	1273.9	1348.8	1461.2
40°	1699.4	1692.7	1763.7	1823.9	1821.2	1656.6	1467.9	1366.2	1352.8	1410.4	1514.8
42.5°	1782.4	1775.7	1854.6	1953.7	1964.4	1830.6	1619.1	1484.0	1471.9	1505.4	1580.3
45°	1890.8	1896.1	1989.8	2107.5	2146.4	2060.7	1823.9	1652.6	1645.9	1635.2	1704.8
47.5°	1987.1	2016.6	2096.8	2236.0	2376.5	2298.9	2064.7	1898.8	1852.0	1827.9	1897.5
50°	2054.0	2080.8	2178.5	2327.0	2583.9	2633.4	2335.0	2161.1	2162.4	2103.5	2141.0
52.5°	2054.0	2052.7	2131.6	2327.0	2728.4	2982.7	2696.3	2491.6	2502.3	2440.7	2443.4
55°	1856.0	1852.0	1948.3	2155.7	2712.4	3318.6	3243.6	2910.4	2883.7	2764.6	2776.6
57.5°	1494.7	1504.1	1577.7	1826.5	2503.6	3475.1	3895.3	3381.4	3290.5	3044.2	3044.2
60°	1090.6	1082.5	1137.4	1311.4	2005.9	3416.2	4430.5	3936.8	3793.6	3275.7	3240.9
62.5°	829.6	828.3	843.0	901.9	1272.6	2978.7	4660.7	4643.3	4410.5	3503.2	3453.7
65°	670.4	673.1	693.1	734.6	777.5	2031.3	4538.9	5486.3	5273.6	3841.8	3679.8
67.5°	547.3	554.0	578.1	667.7	658.4	1051.8	3865.8	5969.4	6009.5	4358.3	3983.6
70°	421.5	432.2	460.3	587.4	634.3	699.8	2680.3	5728.5	5835.6	4679.4	3800.3
72.5°	286.4	285.0	345.2	476.4	641.0	641.0	1492.0	4613.9	4715.6	4314.1	3301.2
75°	155.2	164.6	228.8	360.0	587.4	619.6	849.7	3376.1	3519.3	3354.7	2553.1
77.5°	84.3	85.6	127.1	235.5	488.4	591.5	567.4	2296.2	2352.4	2023.2	1398.3
80°	44.2	45.5	66.9	153.9	337.2	548.6	472.4	1368.9	1315.4	776.1	461.7
82.5°	20.1	21.4	33.5	96.3	215.4	432.2	408.1	661.0	610.2	216.8	140.5
85°	8.0	8.0	14.7	57.5	125.8	212.8	349.3	331.9	277.0	65.6	69.6
87.5°	2.7	2.7	4.0	22.7	50.8	127.1	186.0	175.3	120.4	24.1	37.5
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°	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2
2.5°	1351.5	1366.2	1362.2	1359.5	1334.1	1331.4	1328.8	1304.7	1312.7	1292.6	1306.0
5°	1359.5	1367.6	1346.2	1306.0	1269.9	1229.7	1199.0	1177.6	1138.7	1124.0	1121.3
7.5°	1351.5	1351.5	1307.3	1243.1	1172.2	1106.6	1023.7	964.8	920.6	887.2	899.2
10°	1340.8	1324.7	1279.2	1165.5	1037.0	938.0	818.9	732.0	666.4	645.0	631.6
12.5°	1340.8	1312.7	1211.0	1055.8	889.9	740.0	598.1	484.4	421.5	384.0	378.7
15°	1328.8	1287.3	1161.5	952.7	746.7	543.3	381.4	283.7	230.2	215.4	210.1
17.5°	1331.4	1281.9	1087.9	831.0	579.4	361.3	232.8	179.3	165.9	159.2	160.6
20°	1336.8	1281.9	1022.3	711.9	417.5	224.8	160.6	151.2	144.5	141.8	143.2
22.5°	1354.2	1256.5	955.4	590.1	282.3	161.9	141.8	132.5	127.1	123.1	121.8
25°	1356.9	1252.5	891.2	469.7	194.0	136.5	124.4	113.7	107.1	101.7	100.4
27.5°	1352.8	1235.1	801.5	349.3	145.9	121.8	105.7	95.0	85.6	81.6	80.3
30°	1367.6	1203.0	725.3	251.6	123.1	105.7	89.7	77.6	69.6	64.2	64.2
32.5°	1368.9	1174.9	641.0	179.3	112.4	93.7	76.3	62.9	54.9	52.2	52.2
35°	1370.2	1149.5	547.3	136.5	100.4	80.3	62.9	52.2	46.8	42.8	42.8
37.5°	1374.3	1130.7	461.7	115.1	89.7	68.2	52.2	42.8	37.5	36.1	36.1
40°	1382.3	1105.3	372.0	101.7	77.6	57.5	44.2	36.1	30.8	29.4	28.1
42.5°	1403.7	1098.6	297.1	91.0	69.6	48.2	36.1	29.4	25.4	22.7	21.4
45°	1492.0	1116.0	230.2	84.3	58.9	40.1	30.8	24.1	18.7	17.4	16.1
47.5°	1636.5	1173.5	182.0	74.9	49.5	33.5	25.4	18.7	14.7	13.4	12.0
50°	1856.0	1304.7	148.5	66.9	41.5	28.1	20.1	14.7	10.7	9.4	9.4
52.5°	2143.7	1481.3	128.5	58.9	33.5	24.1	16.1	10.7	8.0	6.7	6.7
55°	2438.1	1690.1	120.4	50.8	28.1	20.1	12.0	8.0	5.4	4.0	4.0
57.5°	2708.4	1825.2	116.4	41.5	24.1	14.7	9.4	5.4	2.7	1.3	1.3
60°	2877.0	1924.2	104.4	33.5	18.7	12.0	6.7	2.7	1.3	0.0	0.0
62.5°	3099.1	2024.6	85.6	25.4	13.4	8.0	4.0	1.3	0.0	0.0	0.0
65°	3392.1	2137.0	66.9	20.1	10.7	5.4	2.7	1.3	0.0	0.0	0.0
67.5°	3532.7	2078.1	45.5	14.7	6.7	2.7	1.3	0.0	0.0	0.0	0.0
70°	3251.6	1750.3	32.1	10.7	4.0	1.3	1.3	0.0	0.0	0.0	0.0
72.5°	2733.8	1371.6	24.1	6.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0
75°	2015.2	857.7	18.7	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1069.2	319.8	13.4	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	315.8	93.7	9.4	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	104.4	28.1	5.4	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.5	10.7	2.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.8	4.0	2.7	2.7	1.3	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)