

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: P677180

Luminaire Tested: **CCW-SA-2D-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677180
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

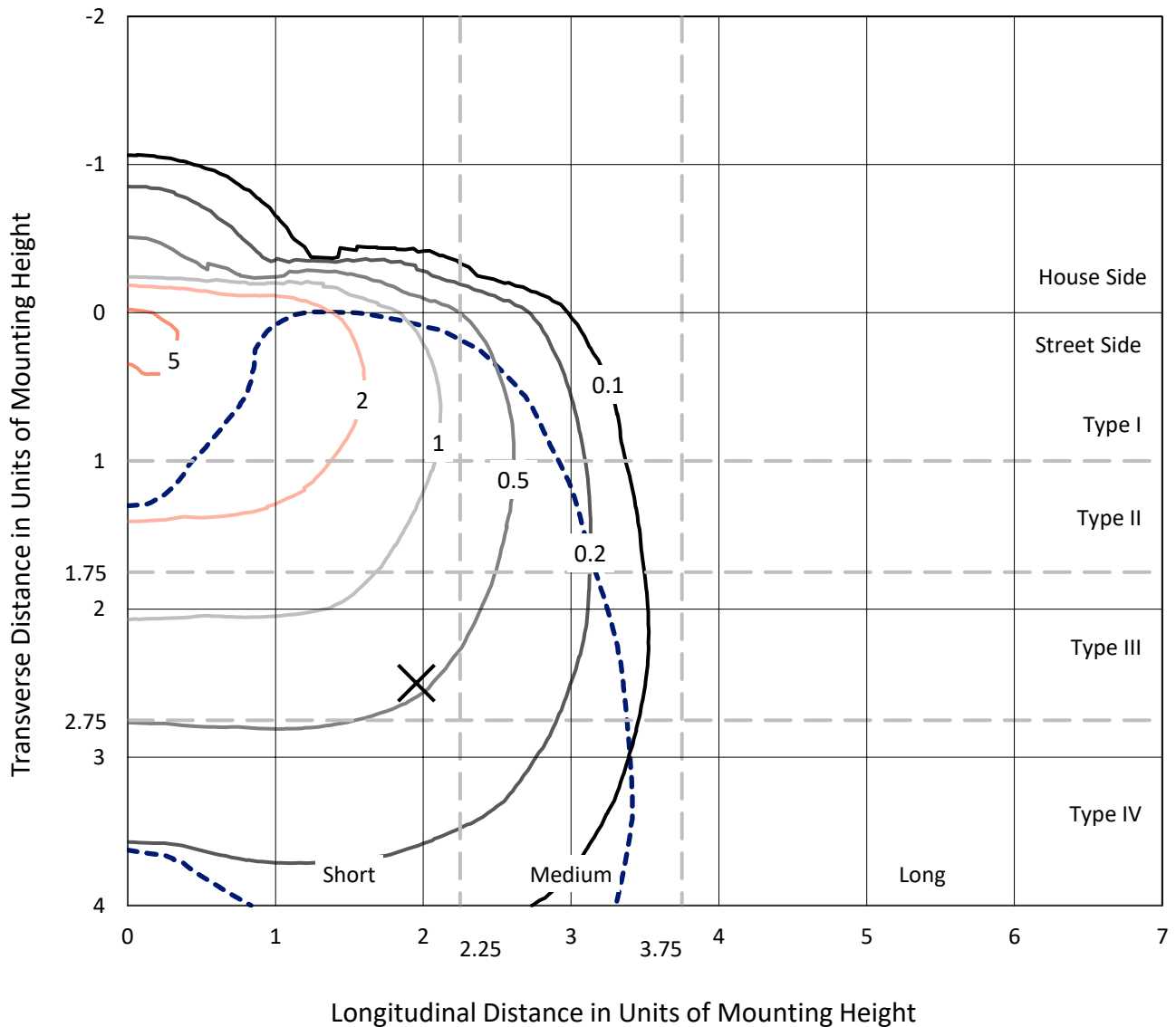
Lumens per Lamp: N/A
Luminaire Lumens: 6772.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

REPORT NUMBER: P677180
 CATALOG NUMBER: CCW-SA-2D-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

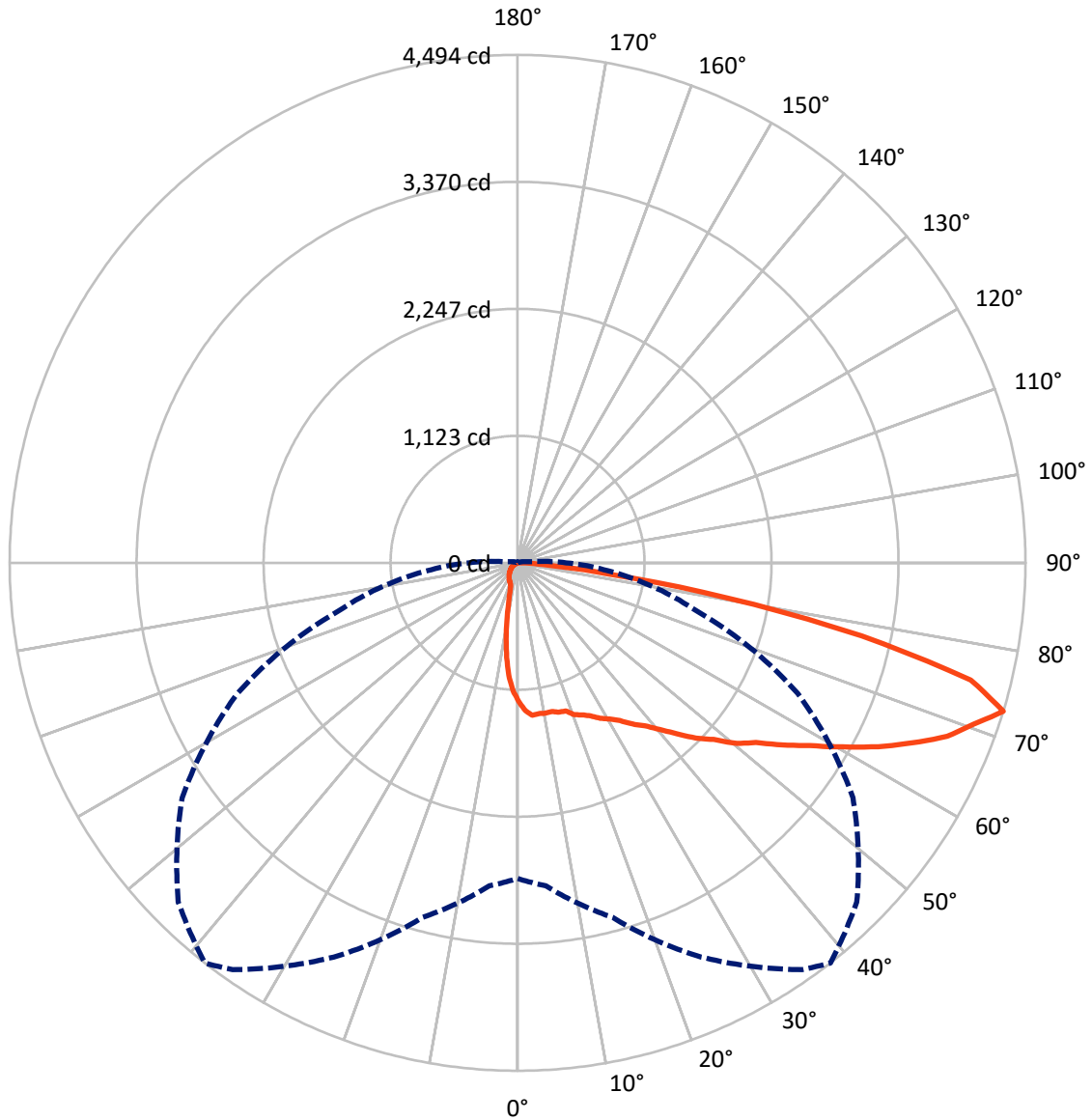
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P677180
CATALOG NUMBER: CCW-SA-2D-827-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.2	0.0	567.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6204.9	0.0	6204.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	6772.1	0.0	6772.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.6
10°-20°	262.5	3.9
20°-30°	420.7	6.2
30°-40°	635.2	9.4
40°-50°	966.8	14.3
50°-60°	1361.1	20.1
60°-70°	1662.6	24.6
70°-80°	1207.3	17.8
80°-90°	148.7	2.2
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°	6772.1	100.0
0°-180°	6772.1	100.0

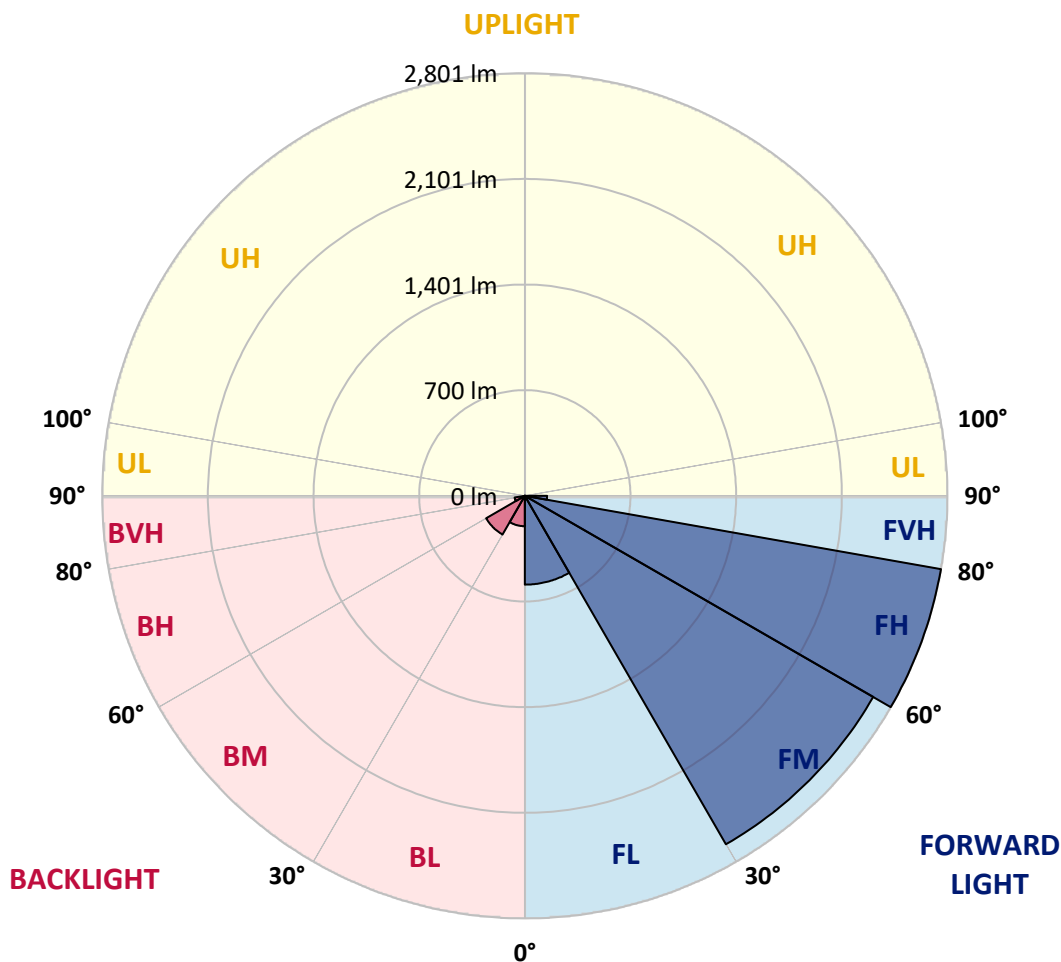


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.0	8.7			
FM (30°-60°)	2666.9	39.4			
FH (60°-80°)	2801.1	41.4			G2/5000
FVH (80°-90°)	147.9	2.2			G2/225
BL (0°-30°)	201.4	3.0	B1/500		
BM (30°-60°)	296.3	4.4	B1/1000		
BH (60°-80°)	68.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short





REPORT NUMBER: P677180

CATALOG NUMBER: CCW-SA-2D-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7
2.5°	1345.4	1345.4	1358.1	1345.4	1340.6	1310.4	1312.0	1296.1	1280.3	1258.0	1237.4
5°	1361.3	1372.4	1380.3	1369.2	1351.7	1354.9	1366.0	1335.8	1293.0	1266.0	1219.9
7.5°	1354.9	1378.7	1372.4	1366.0	1354.9	1347.0	1331.1	1318.4	1297.7	1272.3	1218.3
10°	1350.1	1358.1	1359.7	1354.9	1331.1	1353.3	1335.8	1315.2	1289.8	1259.6	1192.9
12.5°	1332.7	1332.7	1347.0	1335.8	1339.0	1350.1	1342.2	1337.4	1310.4	1285.0	1226.2
15°	1313.6	1320.0	1342.2	1359.7	1375.6	1370.8	1366.0	1351.7	1327.9	1299.3	1237.4
17.5°	1318.4	1321.6	1356.5	1388.3	1380.3	1377.1	1402.6	1372.4	1348.6	1316.8	1246.9
20°	1335.8	1345.4	1385.1	1426.4	1434.3	1434.3	1424.8	1407.3	1374.0	1331.1	1264.4
22.5°	1353.3	1356.5	1421.6	1474.0	1482.0	1461.3	1469.3	1418.4	1386.7	1362.9	1281.8
25°	1420.0	1413.7	1483.6	1524.9	1520.1	1499.5	1491.5	1447.0	1434.3	1391.4	1320.0
27.5°	1510.6	1483.6	1551.9	1577.3	1551.9	1558.2	1536.0	1488.3	1461.3	1435.9	1337.4
30°	1566.2	1582.1	1618.6	1644.0	1601.1	1602.7	1591.6	1539.2	1497.9	1504.2	1396.2
32.5°	1651.9	1663.1	1690.1	1701.2	1667.8	1664.6	1653.5	1612.2	1582.1	1575.7	1475.6
35°	1744.1	1764.7	1766.3	1769.5	1739.3	1752.0	1736.1	1677.4	1693.2	1704.4	1570.9
37.5°	1834.6	1815.5	1847.3	1861.6	1828.3	1828.3	1833.0	1793.3	1821.9	1855.3	1705.9
40°	1869.6	1877.5	1933.1	1922.0	1961.7	1937.9	1955.3	1945.8	1969.6	2045.9	1896.6
42.5°	1906.1	1915.6	1990.3	2010.9	2058.6	2066.5	2091.9	2093.5	2163.4	2288.9	2079.2
45°	1976.0	1960.1	2061.8	2112.6	2190.4	2212.6	2242.8	2268.2	2377.8	2525.6	2287.3
47.5°	2039.5	2017.3	2133.2	2234.9	2330.2	2335.0	2417.6	2444.6	2574.8	2743.2	2493.8
50°	2128.5	2136.4	2185.6	2360.4	2457.3	2512.9	2570.0	2659.0	2803.5	2983.0	2643.1
52.5°	2220.6	2212.6	2295.2	2466.8	2619.3	2639.9	2768.6	2868.7	3025.9	3160.9	2709.8
55°	2333.4	2342.9	2374.7	2600.2	2794.0	2843.2	2987.8	3092.6	3264.2	3237.2	2732.1
57.5°	2446.1	2436.6	2508.1	2749.5	3013.2	3049.7	3241.9	3303.9	3419.8	3288.0	2676.5
60°	2557.3	2574.8	2605.0	2917.9	3253.1	3307.1	3459.5	3491.3	3516.7	3311.8	2633.6
62.5°	2684.4	2643.1	2736.8	3095.8	3469.1	3581.9	3702.6	3577.1	3554.9	3268.9	2535.1
65°	2747.9	2760.6	2883.0	3299.1	3756.6	3839.2	3855.1	3693.0	3578.7	3173.6	2443.0
67.5°	2846.4	2863.9	3019.6	3507.2	4052.0	4098.1	4040.9	3797.9	3558.0	3049.7	2111.0
70°	2859.1	2902.0	3202.2	3724.8	4237.9	4277.6	4233.1	3867.8	3391.2	2562.1	1563.0
72.5°	2792.4	2868.7	3246.7	3848.7	4393.5	4493.6	4244.2	3621.6	2733.6	1634.5	800.6
75°	2109.4	2172.9	2971.9	3664.5	4117.1	4141.0	3726.4	2763.8	1556.6	557.5	204.9
77.5°	1092.8	1202.4	1983.9	2800.4	3137.1	3111.7	2593.9	1628.1	535.3	146.1	82.6
80°	627.4	654.4	867.3	1572.5	1972.8	1875.9	1434.3	702.1	235.1	73.1	54.0
82.5°	309.7	347.9	467.0	703.7	986.4	811.7	538.5	420.9	131.8	39.7	47.7
85°	66.7	69.9	238.3	336.7	400.3	263.7	184.3	354.2	47.7	23.8	46.1
87.5°	47.7	46.1	66.7	150.9	111.2	68.3	109.6	185.8	11.1	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677180

CATALOG NUMBER: CCW-SA-2D-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7	1224.7
2.5°	1224.7	1210.4	1194.5	1164.3	1156.4	1151.6	1124.6	1123.0	1118.2	1107.1	1102.4
5°	1191.3	1167.5	1137.3	1105.5	1080.1	1034.1	978.5	949.9	914.9	916.5	905.4
7.5°	1186.5	1142.1	1099.2	1032.5	951.5	865.7	779.9	724.3	684.6	660.8	665.5
10°	1164.3	1130.9	1061.1	937.2	806.9	676.7	567.1	484.5	436.8	400.3	411.4
12.5°	1173.8	1108.7	1010.2	845.0	659.2	498.8	362.2	282.7	247.8	235.1	238.3
15°	1167.5	1108.7	980.0	745.0	517.8	338.3	235.1	209.7	203.3	203.3	200.1
17.5°	1186.5	1121.4	929.2	646.5	371.7	225.6	201.7	197.0	192.2	192.2	192.2
20°	1213.5	1127.8	894.3	536.9	262.1	198.6	189.0	185.8	184.3	184.3	182.7
22.5°	1215.1	1121.4	829.1	416.2	201.7	187.4	179.5	177.9	177.9	174.7	174.7
25°	1224.7	1127.8	759.3	312.9	187.4	176.3	170.0	168.4	170.0	168.4	166.8
27.5°	1248.5	1138.9	689.4	228.7	176.3	166.8	162.0	160.4	160.4	160.4	157.3
30°	1278.7	1138.9	611.5	189.0	166.8	157.3	152.5	150.9	149.3	149.3	149.3
32.5°	1342.2	1175.4	516.2	168.4	154.1	146.1	141.4	141.4	139.8	139.8	138.2
35°	1421.6	1200.8	419.3	155.7	143.0	135.0	130.2	130.2	128.7	128.7	127.1
37.5°	1520.1	1264.4	320.9	146.1	131.8	123.9	119.1	119.1	119.1	117.5	117.5
40°	1659.9	1329.5	238.3	133.4	120.7	112.8	109.6	108.0	106.4	106.4	103.2
42.5°	1809.2	1429.6	177.9	123.9	111.2	104.8	100.1	95.3	95.3	90.5	90.5
45°	1971.2	1516.9	144.5	112.8	101.7	93.7	89.0	85.8	81.0	77.8	77.8
47.5°	2130.1	1570.9	127.1	100.1	92.1	85.8	81.0	74.7	68.3	66.7	65.1
50°	2258.7	1586.8	112.8	90.5	84.2	77.8	71.5	63.5	57.2	54.0	52.4
52.5°	2258.7	1499.5	101.7	81.0	76.2	69.9	61.9	52.4	44.5	41.3	39.7
55°	2258.7	1361.3	90.5	74.7	68.3	63.5	52.4	42.9	34.9	30.2	28.6
57.5°	2225.4	1194.5	81.0	66.7	60.4	54.0	44.5	33.4	25.4	20.6	20.6
60°	2133.2	1019.8	69.9	58.8	52.4	44.5	34.9	23.8	15.9	11.1	11.1
62.5°	2015.7	811.7	60.4	49.2	42.9	36.5	27.0	15.9	6.4	3.2	3.2
65°	1810.8	598.8	52.4	41.3	33.4	27.0	17.5	6.4	0.0	0.0	0.0
67.5°	1494.7	400.3	41.3	33.4	28.6	19.1	11.1	1.6	0.0	0.0	0.0
70°	1051.5	227.1	31.8	23.8	20.6	12.7	3.2	0.0	0.0	0.0	0.0
72.5°	432.0	100.1	22.2	17.5	14.3	6.4	0.0	0.0	0.0	0.0	0.0
75°	117.5	44.5	14.3	9.5	7.9	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	68.3	30.2	6.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.0	14.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	0.0	0.0	0.0	0.0	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)