

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: P676471

Luminaire Tested: **CCW-SA-2D-830-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676471
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

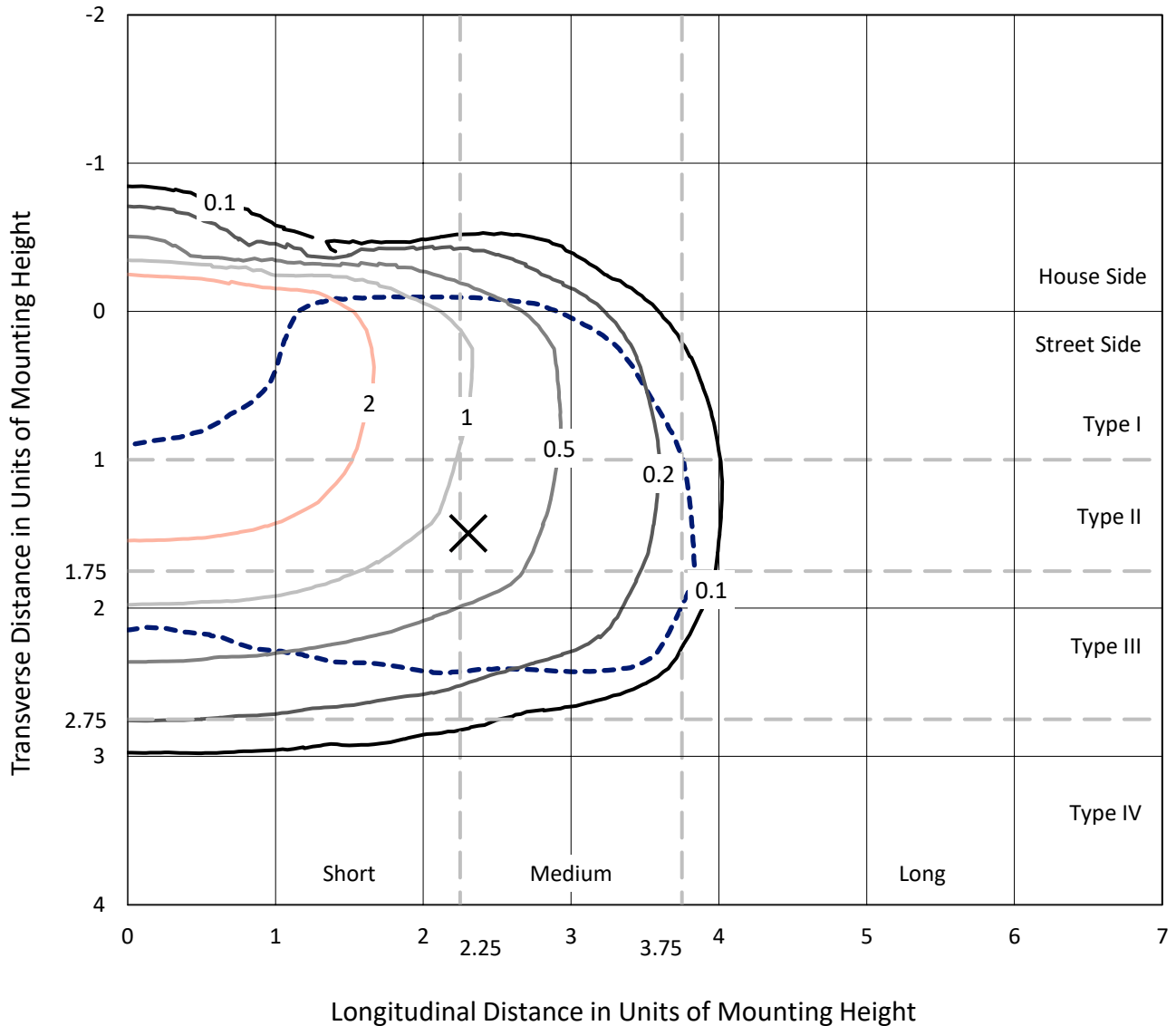
Lumens per Lamp: N/A
Luminaire Lumens: 6384.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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: P676471
 CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

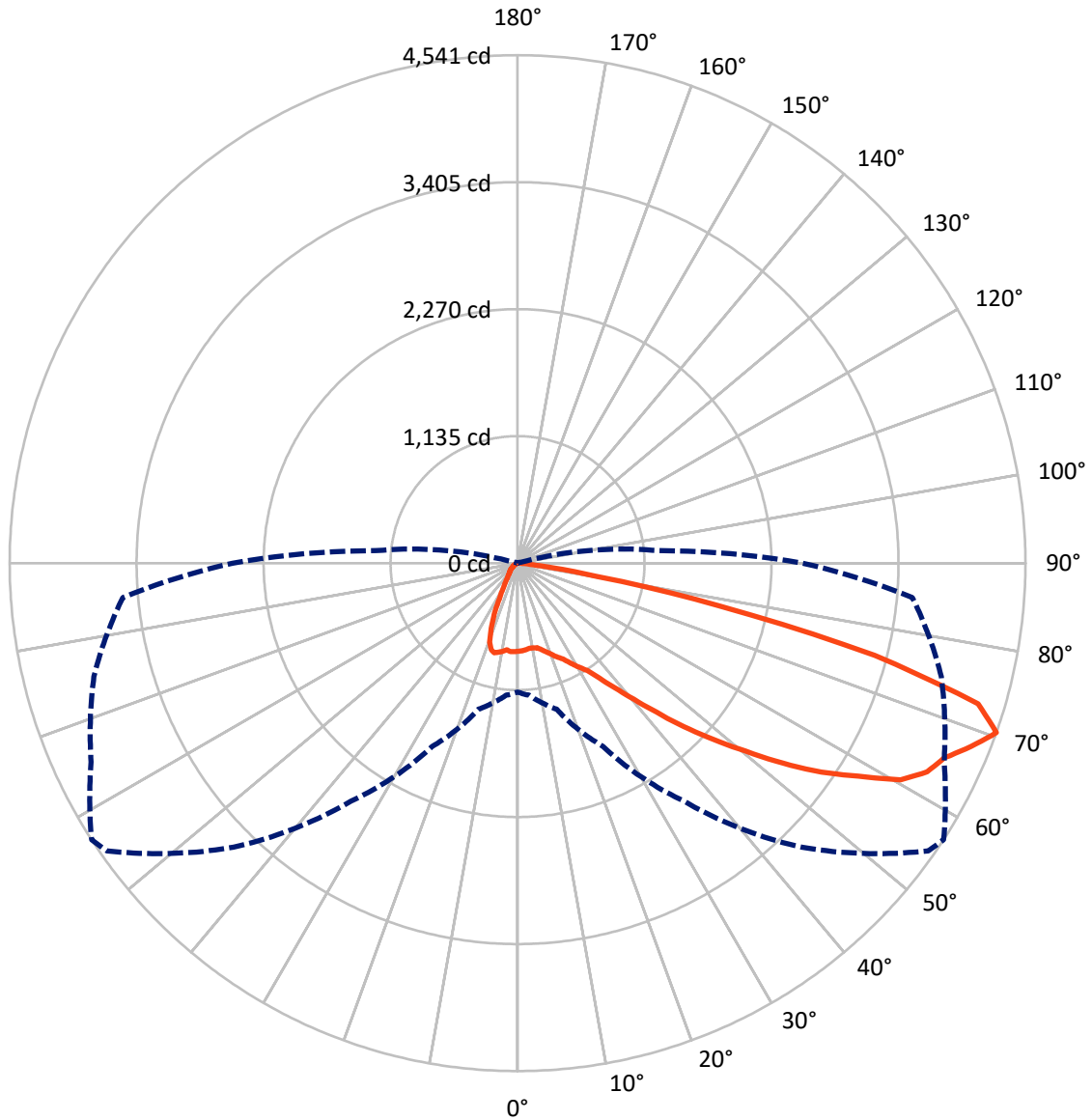
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P676471
CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P676471

CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	752.5	0.0	752.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5631.8	0.0	5631.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	6384.3	0.0	6384.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.2
10°-20°	205.8	3.2
20°-30°	346.7	5.4
30°-40°	593.3	9.3
40°-50°	996.3	15.6
50°-60°	1529.3	24.0
60°-70°	1765.6	27.7
70°-80°	834.0	13.1
80°-90°	39.6	0.6
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°	6384.3	100.0
0°-180°	6384.3	100.0



REPORT NUMBER: P676471

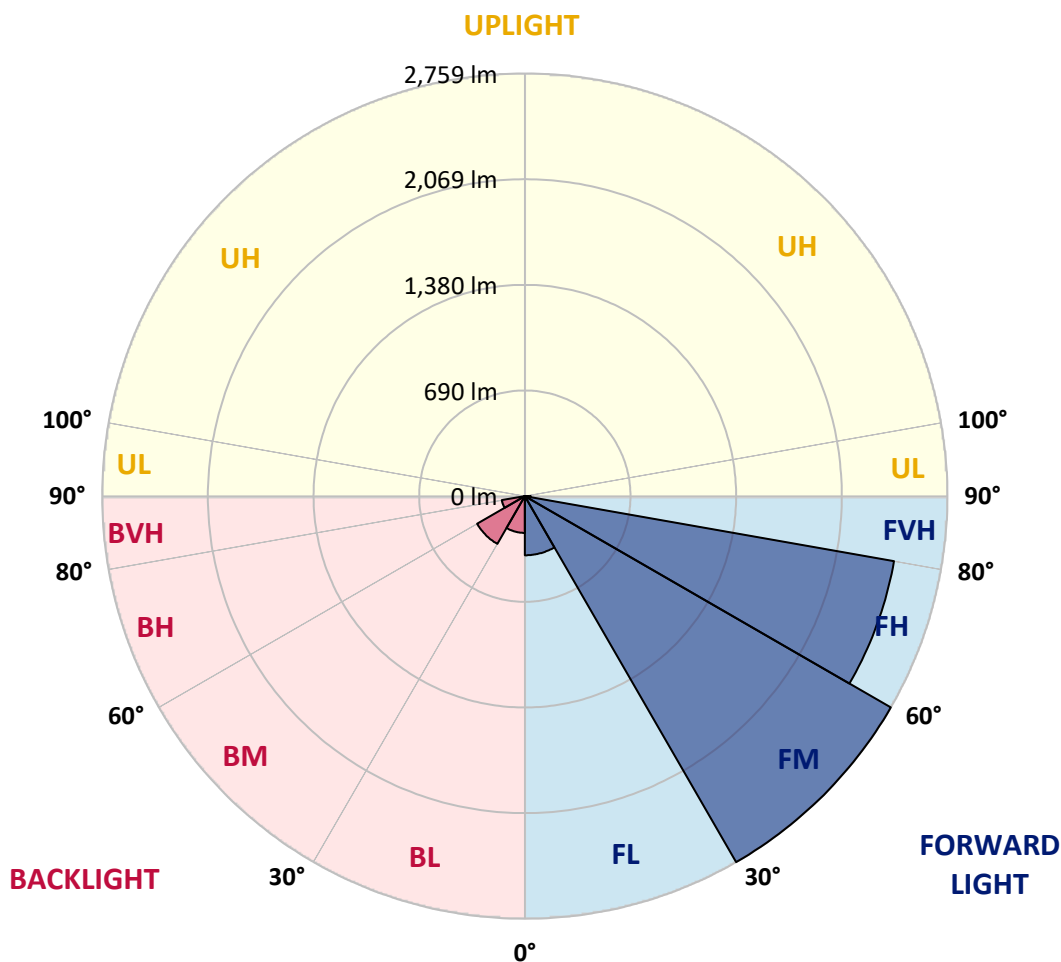
CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.2	6.0			
FM (30°-60°)	2759.2	43.2			
FH (60°-80°)	2447.5	38.3			G2/5000
FVH (80°-90°)	38.9	0.6			G1/100
BL (0°-30°)	239.9	3.8	B1/500		
BM (30°-60°)	359.7	5.6	B1/1000		
BH (60°-80°)	152.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Medium





REPORT NUMBER: P676471

CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	776.3	771.4	776.3	782.8	776.3	781.2	779.6	784.5	778.0	778.0	782.8
5°	725.8	733.9	737.2	745.3	753.5	768.2	778.0	778.0	787.7	792.6	799.2
7.5°	707.8	694.8	707.8	714.3	722.5	747.0	761.6	768.2	781.2	799.2	808.9
10°	681.7	691.5	691.5	712.7	724.1	738.8	764.9	769.8	799.2	817.1	826.9
12.5°	680.1	680.1	688.3	702.9	725.8	753.5	786.1	776.3	807.3	839.9	856.2
15°	685.0	696.4	696.4	716.0	733.9	773.1	800.8	802.4	846.5	879.1	893.7
17.5°	706.2	701.3	707.8	719.2	747.0	784.5	830.1	835.0	885.6	929.6	950.8
20°	750.2	758.4	748.6	742.1	753.5	802.4	861.1	870.9	928.0	970.4	991.6
22.5°	914.9	908.4	869.3	823.6	804.0	826.9	890.5	913.3	980.2	1030.7	1048.7
25°	1100.9	1089.5	1043.8	975.3	885.6	875.8	949.2	949.2	1045.4	1100.9	1096.0
27.5°	1277.0	1273.8	1219.9	1148.2	1021.0	950.8	996.5	1014.4	1118.8	1164.5	1143.3
30°	1456.4	1459.7	1410.8	1324.3	1190.6	1071.5	1063.4	1078.0	1174.3	1246.0	1202.0
32.5°	1665.2	1635.8	1601.6	1482.5	1360.2	1226.5	1149.8	1143.3	1236.2	1301.5	1242.8
35°	1851.1	1833.2	1795.7	1688.0	1547.7	1387.9	1280.3	1264.0	1314.5	1401.0	1337.4
37.5°	2014.2	1996.3	1947.3	1875.6	1766.3	1588.5	1436.8	1412.4	1433.6	1524.9	1448.3
40°	2154.5	2159.3	2146.3	2076.2	1975.1	1813.6	1639.1	1599.9	1582.0	1663.5	1577.1
42.5°	2255.6	2302.9	2306.1	2219.7	2138.1	2050.1	1854.4	1823.4	1781.0	1849.5	1789.1
45°	2467.6	2441.5	2457.8	2426.8	2337.1	2324.1	2102.3	2084.3	2025.6	2048.4	1984.8
47.5°	2633.9	2629.1	2660.0	2609.5	2585.0	2586.6	2384.4	2353.4	2270.2	2312.7	2240.9
50°	2730.2	2704.1	2816.6	2855.8	2850.9	2870.4	2669.8	2643.7	2563.8	2625.8	2472.5
52.5°	2753.0	2800.3	2906.3	3048.2	3108.5	3149.3	2981.3	2971.5	2885.1	2924.3	2712.2
55°	2810.1	2855.8	2917.7	3151.0	3374.4	3384.2	3287.9	3297.7	3221.1	3211.3	2940.6
57.5°	2808.5	2798.7	2969.9	3240.7	3550.5	3690.8	3638.6	3591.3	3508.1	3411.9	3087.3
60°	2705.7	2700.8	2878.6	3252.1	3646.8	3968.0	3989.2	3933.8	3725.0	3583.1	3260.2
62.5°	2501.8	2521.4	2700.8	3154.2	3738.1	4067.5	4145.8	4108.3	3849.0	3697.3	3464.1
65°	2268.6	2227.8	2436.6	2909.6	3532.6	4038.2	4207.8	4194.7	3995.8	3821.3	3651.6
67.5°	1820.1	1838.1	1997.9	2503.5	3181.9	3930.5	4352.9	4372.5	4113.2	3930.5	3708.7
70°	1153.1	1185.7	1352.0	1808.7	2598.1	3591.3	4483.4	4540.5	4206.2	3920.7	3542.4
72.5°	336.0	349.0	575.7	901.9	1655.4	2880.2	4274.7	4304.0	4025.1	3558.7	2740.0
75°	110.9	117.4	169.6	293.6	649.1	1489.0	3157.5	3296.1	3203.1	2580.1	1567.3
77.5°	73.4	76.7	93.0	140.3	246.3	466.4	1692.9	1841.3	1805.4	1208.5	505.6
80°	53.8	55.5	68.5	94.6	150.0	168.0	624.6	722.5	698.0	277.3	101.1
82.5°	34.2	34.2	50.6	66.9	94.6	83.2	181.0	200.6	195.7	106.0	39.1
85°	22.8	24.5	37.5	52.2	52.2	39.1	52.2	60.3	65.2	57.1	17.9
87.5°	6.5	8.2	21.2	35.9	21.2	19.6	17.9	19.6	22.8	31.0	9.8
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: P676471
 CATALOG NUMBER: CCW-SA-2D-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7	787.7
2.5°	787.7	794.3	792.6	795.9	791.0	786.1	791.0	791.0	791.0	786.1	782.8
5°	794.3	791.0	794.3	787.7	794.3	787.7	784.5	774.7	773.1	773.1	779.6
7.5°	804.0	807.3	792.6	792.6	778.0	781.2	773.1	774.7	771.4	766.5	763.3
10°	818.7	831.8	817.1	812.2	795.9	782.8	763.3	753.5	753.5	747.0	753.5
12.5°	859.5	854.6	846.5	830.1	810.6	784.5	737.2	689.9	650.7	621.4	636.1
15°	892.1	890.5	879.1	848.1	822.0	742.1	623.0	500.7	435.5	406.1	401.2
17.5°	942.7	937.8	918.2	877.4	791.0	614.9	427.3	324.6	260.9	246.3	241.4
20°	990.0	988.3	945.9	893.7	712.7	448.5	278.9	213.7	195.7	197.3	194.1
22.5°	1040.5	1032.4	981.8	874.2	567.6	298.5	199.0	190.8	184.3	182.7	185.9
25°	1097.6	1068.3	1017.7	830.1	417.5	205.5	187.6	181.0	174.5	172.9	172.9
27.5°	1120.4	1100.9	1034.0	724.1	264.2	179.4	176.1	168.0	159.8	154.9	153.3
30°	1172.6	1140.0	1050.3	569.2	187.6	164.7	159.8	150.0	138.6	130.5	130.5
32.5°	1224.8	1185.7	1051.9	397.9	156.6	148.4	140.3	127.2	112.5	104.4	106.0
35°	1290.1	1236.2	1034.0	257.7	140.3	130.5	114.2	99.5	86.4	79.9	79.9
37.5°	1401.0	1350.4	960.6	169.6	127.2	110.9	94.6	78.3	66.9	62.0	62.0
40°	1541.2	1476.0	859.5	133.7	112.5	94.6	75.0	60.3	53.8	48.9	48.9
42.5°	1709.2	1627.7	709.5	119.1	99.5	78.3	58.7	47.3	40.8	40.8	39.1
45°	1877.2	1743.5	556.1	109.3	88.1	65.2	45.7	37.5	34.2	32.6	32.6
47.5°	2116.9	1883.7	397.9	99.5	76.7	50.6	37.5	31.0	27.7	26.1	27.7
50°	2346.9	2015.8	282.2	89.7	63.6	40.8	31.0	27.7	24.5	22.8	22.8
52.5°	2549.1	2107.2	197.3	78.3	53.8	34.2	27.7	24.5	22.8	21.2	21.2
55°	2660.0	2076.2	135.4	66.9	44.0	29.4	24.5	21.2	19.6	17.9	17.9
57.5°	2774.2	1989.7	102.7	55.5	35.9	27.7	22.8	19.6	17.9	16.3	16.3
60°	2870.4	1926.1	79.9	44.0	29.4	22.8	19.6	16.3	14.7	13.0	11.4
62.5°	2875.3	1798.9	58.7	32.6	22.8	19.6	16.3	13.0	8.2	6.5	4.9
65°	2894.9	1665.2	42.4	24.5	16.3	14.7	11.4	6.5	3.3	0.0	0.0
67.5°	2826.4	1507.0	34.2	17.9	11.4	8.2	4.9	1.6	0.0	0.0	0.0
70°	2547.5	1272.1	26.1	13.0	8.2	4.9	1.6	0.0	0.0	0.0	0.0
72.5°	1823.4	826.9	17.9	9.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0
75°	972.0	352.3	13.0	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	305.0	89.7	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.9	24.5	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.6	1.6	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)