

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: P676647

Luminaire Tested: **CCW-SA-2C-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676647
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

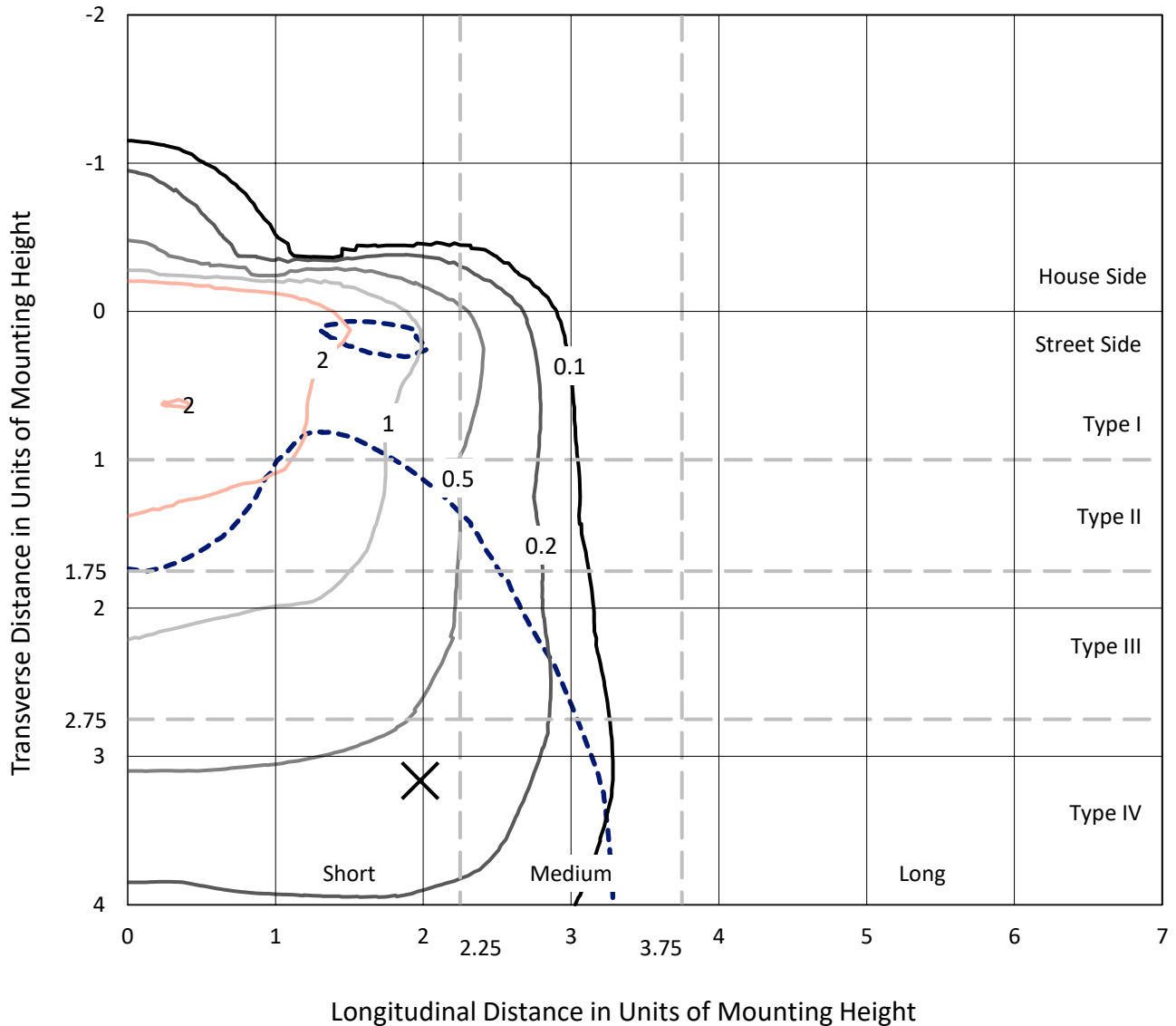
Lumens per Lamp: N/A
Luminaire Lumens: 5665.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

REPORT NUMBER: P676647
 CATALOG NUMBER: CCW-SA-2C-850-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

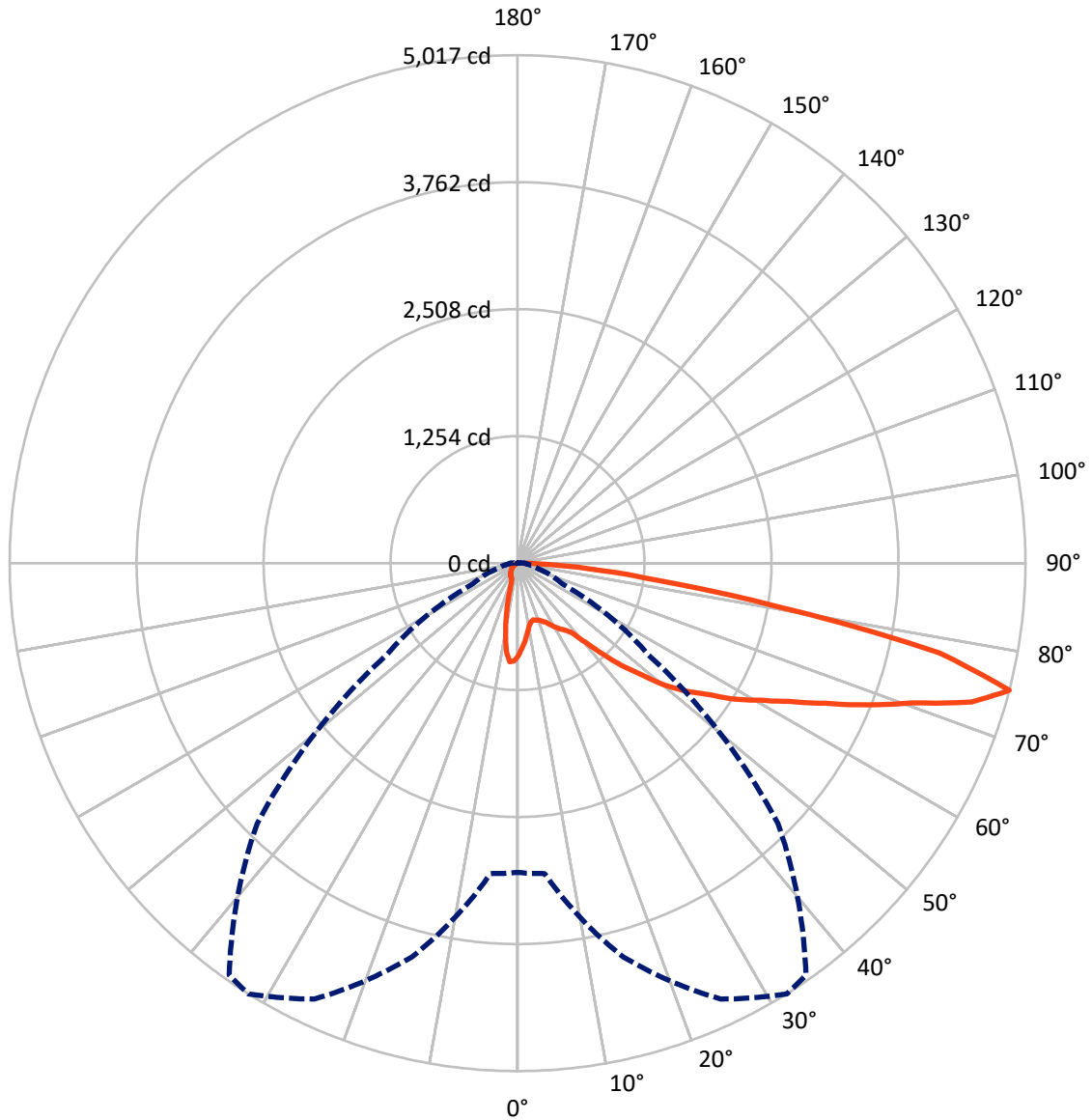
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P676647
CATALOG NUMBER: CCW-SA-2C-850-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.0	0.0	612.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5053.1	0.0	5053.1
	% Fixture	89.2	0.0	89.2
Total	Lumens	5665.1	0.0	5665.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.4
10°-20°	182.5	3.2
20°-30°	273.2	4.8
30°-40°	419.4	7.4
40°-50°	733.5	12.9
50°-60°	1146.6	20.2
60°-70°	1482.4	26.2
70°-80°	1207.3	21.3
80°-90°	139.8	2.5
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°	5665.1	100.0
0°-180°	5665.1	100.0



REPORT NUMBER: P676647

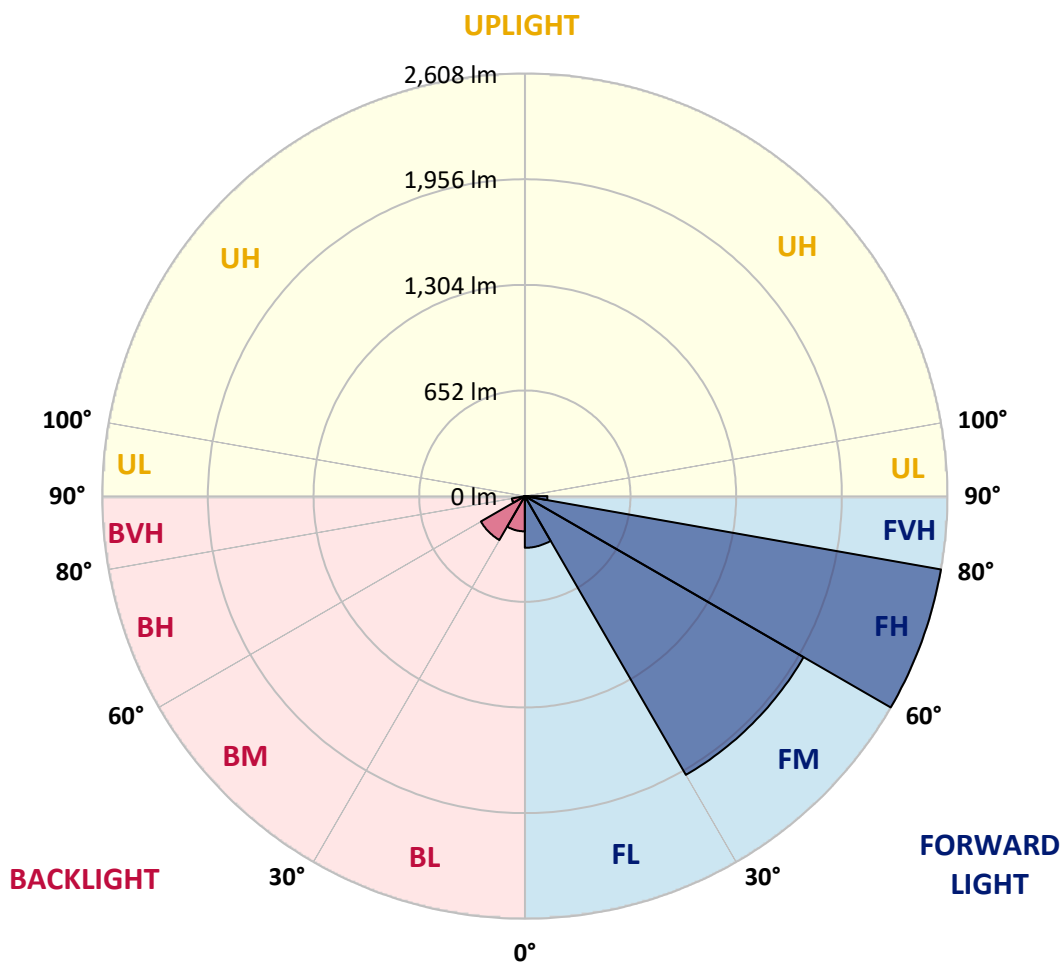
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.7	5.6			
FM (30°-60°)	1986.4	35.1			
FH (60°-80°)	2608.3	46.0			G2/5000
FVH (80°-90°)	139.7	2.5			G2/225
BL (0°-30°)	217.4	3.8	B1/500		
BM (30°-60°)	313.1	5.5	B1/1000		
BH (60°-80°)	81.4	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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: P676647

CATALOG NUMBER: CCW-SA-2C-850-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	820.4	832.0	830.5	837.8	839.2	843.6	853.8	853.8	882.8	903.1	916.2
5°	746.3	739.1	742.0	750.7	772.4	771.0	795.7	808.7	843.6	872.6	903.1
7.5°	654.8	653.4	659.2	679.5	695.5	708.6	734.7	768.1	814.6	858.1	911.8
10°	596.8	593.9	605.5	611.3	630.2	638.9	679.5	731.8	787.0	849.4	911.8
12.5°	583.7	573.5	579.3	577.9	595.3	599.7	638.9	702.8	769.5	846.5	923.5
15°	591.0	583.7	577.9	577.9	582.2	585.1	627.3	683.9	759.4	850.9	949.6
17.5°	614.2	609.8	592.4	575.0	593.9	593.9	620.0	679.5	760.8	863.9	981.5
20°	641.8	637.4	606.9	586.6	599.7	614.2	641.8	689.7	765.2	874.1	1030.9
22.5°	672.3	672.3	630.2	606.9	624.3	625.8	675.2	721.6	782.6	900.2	1062.8
25°	710.0	707.1	666.5	640.3	646.1	662.1	707.1	756.5	814.6	936.5	1122.4
27.5°	759.4	755.0	707.1	681.0	688.2	705.7	756.5	805.8	843.6	951.0	1173.2
30°	800.0	795.7	756.5	717.3	733.2	749.2	808.7	852.3	879.9	978.6	1231.3
32.5°	808.7	801.5	775.4	757.9	775.4	805.8	852.3	897.3	939.4	1048.3	1341.6
35°	908.9	882.8	814.6	787.0	813.1	823.3	900.2	980.1	1020.7	1103.5	1465.0
37.5°	1100.6	1075.9	985.9	908.9	872.6	884.3	984.4	1083.2	1122.4	1206.6	1600.1
40°	1335.8	1295.2	1199.3	1096.2	1022.2	1007.7	1073.0	1218.2	1256.0	1335.8	1777.2
42.5°	1604.4	1565.2	1417.1	1295.2	1219.7	1200.8	1210.9	1375.0	1407.0	1454.9	1893.4
45°	1797.5	1777.2	1610.2	1501.3	1441.8	1421.5	1396.8	1546.4	1587.0	1603.0	2061.8
47.5°	1909.3	1894.8	1801.9	1727.8	1648.0	1626.2	1642.2	1784.5	1756.9	1770.0	2223.0
50°	2058.9	2021.1	1894.8	1918.1	1902.1	1896.3	1923.9	1986.3	1945.6	1907.9	2398.7
52.5°	2179.4	2112.6	2024.1	2080.7	2105.4	2127.1	2224.4	2270.9	2089.4	2031.3	2511.9
55°	2253.5	2189.6	2212.8	2265.1	2291.2	2391.4	2506.1	2471.3	2183.8	2130.0	2662.9
57.5°	2320.3	2324.6	2387.0	2403.0	2536.6	2554.0	2774.7	2661.5	2250.6	2220.1	2722.4
60°	2481.4	2465.4	2516.3	2619.4	2747.1	2844.4	3055.0	2789.2	2284.0	2266.5	2706.5
62.5°	2771.8	2673.1	2690.5	2821.2	3008.5	3114.5	3216.1	2847.3	2275.2	2273.8	2658.6
65°	3140.6	3027.4	2975.1	3097.1	3339.5	3489.1	3397.6	2912.7	2217.2	2257.8	2480.0
67.5°	3447.0	3448.4	3351.2	3419.4	3735.9	3767.9	3568.9	2899.6	2119.9	2131.5	2044.4
70°	3799.8	3847.7	3762.1	3975.5	4133.8	4154.1	3765.0	2792.1	1910.8	1607.3	1174.6
72.5°	3889.8	3914.5	4181.7	4509.8	4688.4	4694.2	3958.1	2433.5	1257.4	710.0	364.4
75°	3055.0	3078.2	4024.9	4750.9	5016.6	4965.7	3635.7	1579.7	489.3	207.6	87.1
77.5°	1704.6	1711.9	2498.8	3840.5	4255.7	4051.0	2546.8	615.6	197.5	119.1	40.7
80°	466.1	547.4	926.4	1893.4	2599.0	2551.1	1212.4	200.4	127.8	92.9	18.9
82.5°	111.8	120.5	297.7	837.8	1373.6	1433.1	361.5	101.6	88.6	77.0	10.2
85°	40.7	45.0	91.5	408.0	705.7	647.6	108.9	50.8	65.3	59.5	4.4
87.5°	14.5	14.5	29.0	133.6	206.2	155.4	36.3	17.4	33.4	36.3	1.5
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: P676647
 CATALOG NUMBER: CCW-SA-2C-850-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	917.6	917.6	938.0	955.4	961.2	968.5	961.2	977.2	975.7	968.5	971.4
5°	919.1	945.2	962.7	974.3	980.1	978.6	981.5	964.1	953.9	946.7	939.4
7.5°	926.4	951.0	983.0	980.1	964.1	930.7	904.6	858.1	813.1	811.7	804.4
10°	951.0	972.8	991.7	980.1	922.0	820.4	737.6	675.2	618.5	592.4	595.3
12.5°	968.5	1009.1	1000.4	940.9	820.4	686.8	564.8	473.3	422.5	374.6	374.6
15°	1004.8	1019.3	1016.4	884.3	695.5	535.8	387.7	294.8	241.0	219.2	216.3
17.5°	1039.6	1055.6	1006.2	798.6	572.1	360.1	235.2	182.9	175.7	172.8	174.2
20°	1083.2	1084.6	997.5	712.9	429.8	228.0	168.4	164.1	165.5	164.1	164.1
22.5°	1129.6	1139.8	967.0	592.4	286.0	165.5	156.8	158.3	158.3	158.3	162.6
25°	1190.6	1174.6	919.1	477.7	187.3	152.5	152.5	153.9	153.9	153.9	155.4
27.5°	1231.3	1209.5	858.1	344.1	146.6	143.7	146.6	146.6	149.6	149.6	149.6
30°	1315.5	1258.9	781.2	222.2	132.1	136.5	139.4	142.3	143.7	146.6	148.1
32.5°	1380.8	1302.4	685.3	148.1	120.5	123.4	130.7	136.5	142.3	140.8	140.8
35°	1499.9	1373.6	596.8	117.6	110.3	110.3	117.6	127.8	136.5	139.4	139.4
37.5°	1636.4	1431.6	473.3	107.4	101.6	101.6	106.0	117.6	129.2	135.0	132.1
40°	1749.6	1498.4	349.9	100.2	94.4	94.4	97.3	106.0	119.1	129.2	130.7
42.5°	1829.5	1547.8	236.7	92.9	88.6	87.1	91.5	95.8	106.0	120.5	123.4
45°	1902.1	1573.9	146.6	85.7	82.8	82.8	82.8	87.1	94.4	107.4	110.3
47.5°	2031.3	1603.0	106.0	79.9	75.5	77.0	78.4	79.9	85.7	88.6	90.0
50°	2140.2	1624.8	87.1	74.1	71.1	72.6	72.6	72.6	75.5	71.1	71.1
52.5°	2223.0	1603.0	74.1	68.2	65.3	66.8	65.3	65.3	62.4	56.6	56.6
55°	2284.0	1563.8	59.5	62.4	62.4	62.4	59.5	55.2	49.4	45.0	45.0
57.5°	2299.9	1497.0	46.5	52.3	56.6	56.6	50.8	45.0	37.8	33.4	31.9
60°	2275.2	1351.8	34.8	37.8	43.6	45.0	40.7	33.4	26.1	21.8	21.8
62.5°	2186.7	1237.1	27.6	24.7	31.9	33.4	29.0	21.8	14.5	10.2	8.7
65°	2018.2	1059.9	20.3	17.4	21.8	23.2	18.9	10.2	4.4	1.5	0.0
67.5°	1618.9	798.6	13.1	11.6	14.5	14.5	8.7	2.9	0.0	0.0	0.0
70°	895.9	448.7	8.7	5.8	7.3	4.4	1.5	0.0	0.0	0.0	0.0
72.5°	258.5	127.8	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	69.7	30.5	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.5	11.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)