

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: P676636

Luminaire Tested: **CCW-SA-2C-840-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676636
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

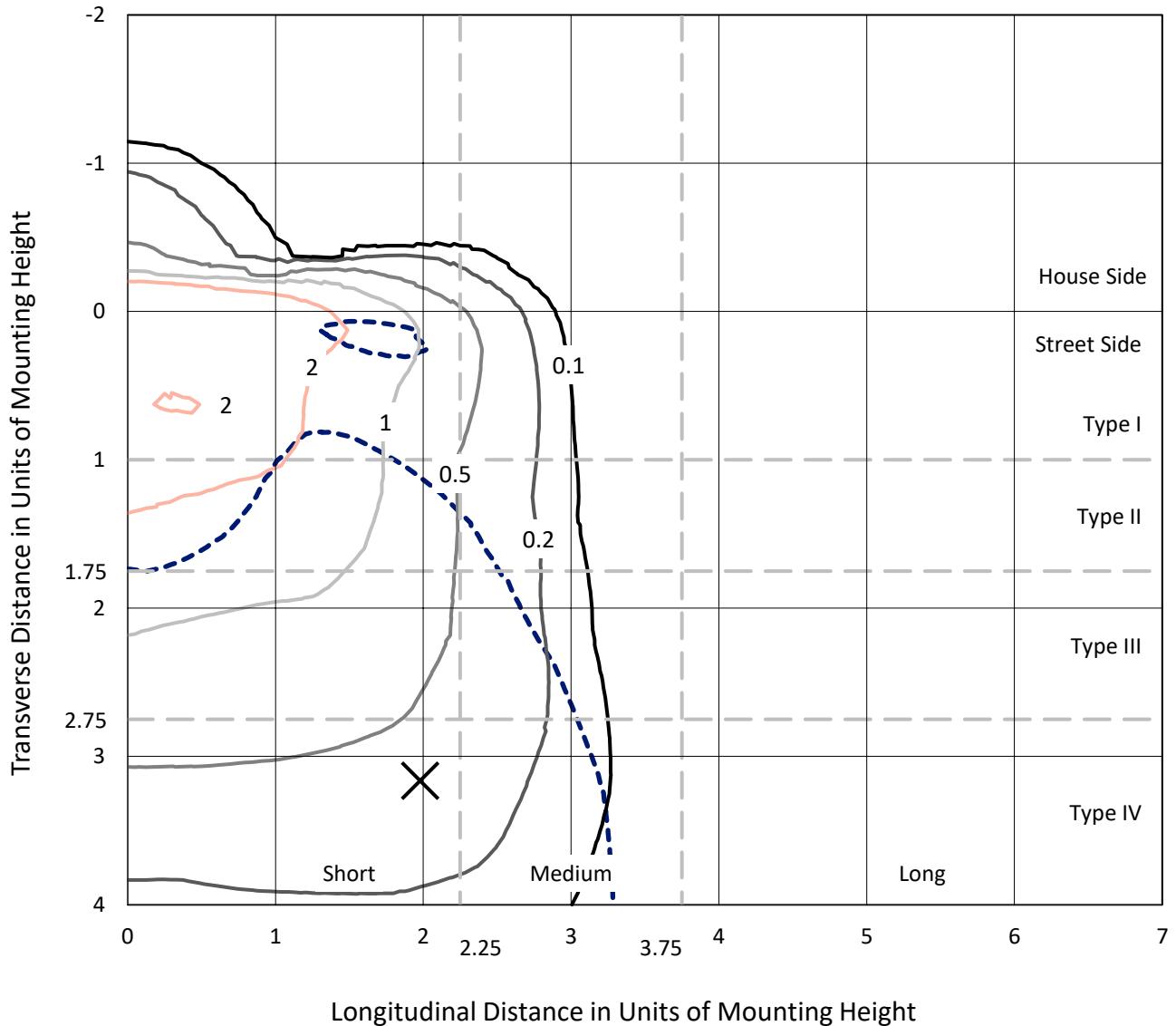
Lumens per Lamp: N/A
Luminaire Lumens: 5535.3 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P676636
 CATALOG NUMBER: CCW-SA-2C-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

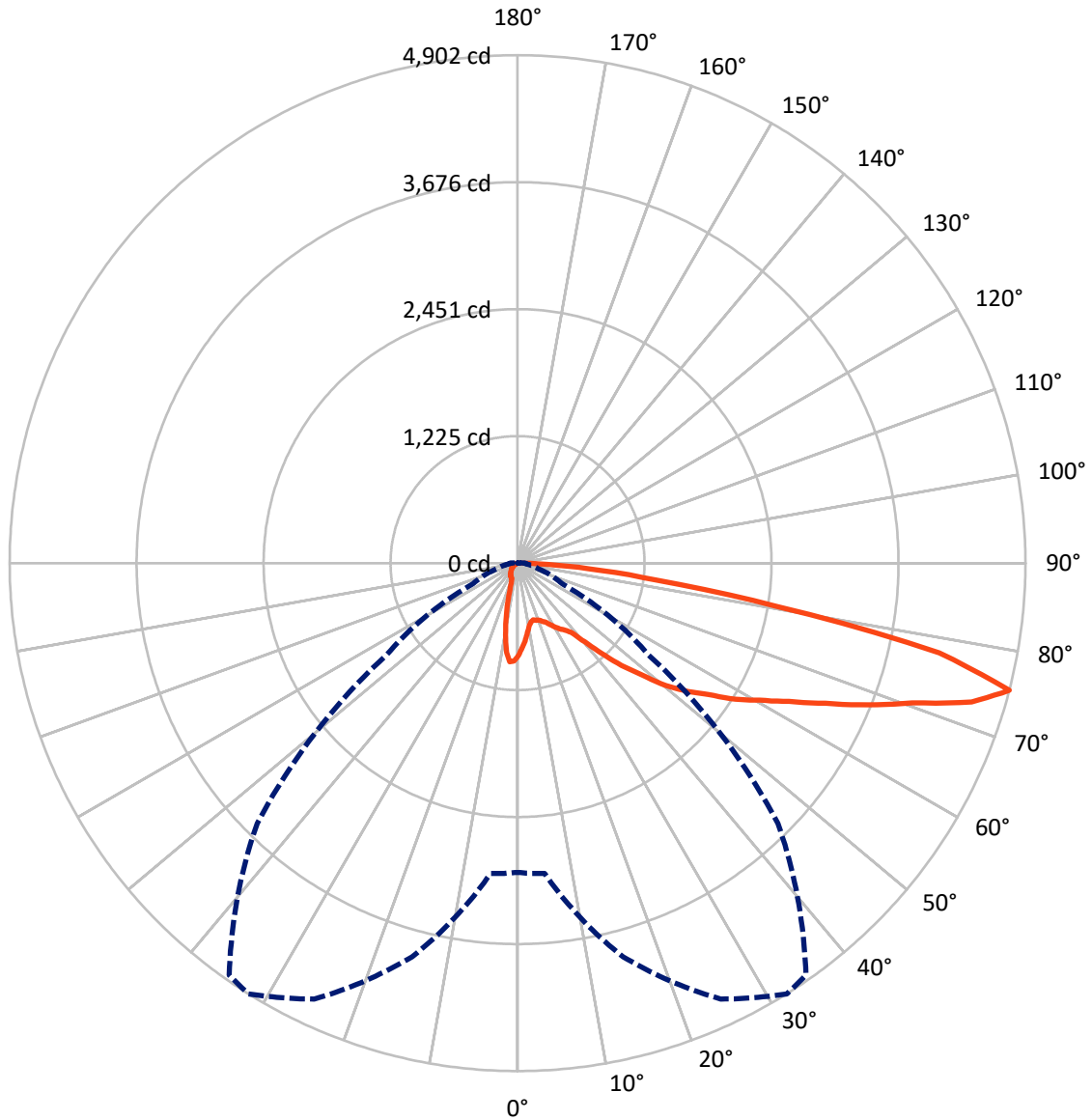
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P676636
CATALOG NUMBER: CCW-SA-2C-840-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	598.0	0.0	598.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4937.3	0.0	4937.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	5535.3	0.0	5535.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	1.4
10°-20°	178.3	3.2
20°-30°	267.0	4.8
30°-40°	409.8	7.4
40°-50°	716.7	12.9
50°-60°	1120.3	20.2
60°-70°	1448.4	26.2
70°-80°	1179.7	21.3
80°-90°	136.6	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°	5535.3	100.0
0°-180°	5535.3	100.0



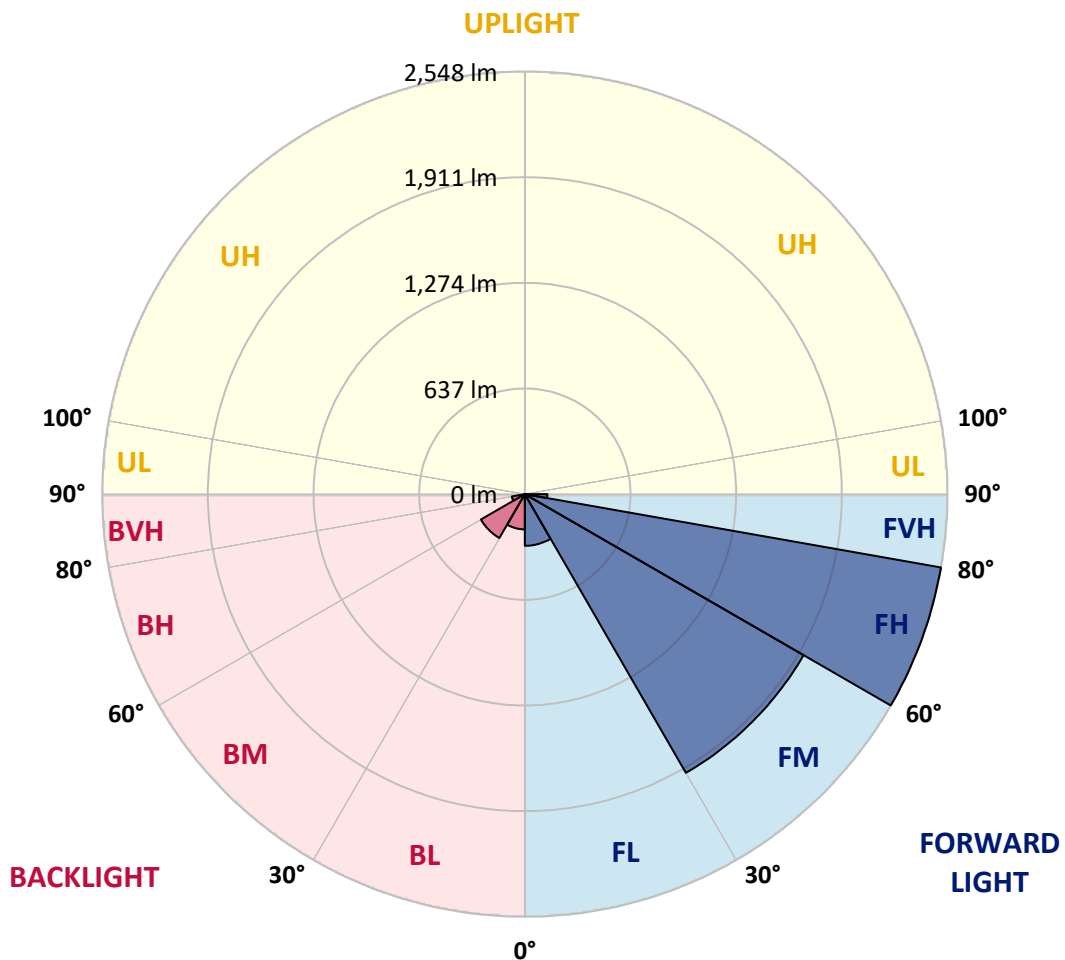
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.4	5.6			
FM (30°-60°)	1940.9	35.1			
FH (60°-80°)	2548.5	46.0			G2/5000
FVH (80°-90°)	136.5	2.5			G2/225
BL (0°-30°)	212.4	3.8	B1/500		
BM (30°-60°)	305.9	5.5	B1/1000		
BH (60°-80°)	79.5	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: P676636

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8
2.5°	801.6	812.9	811.5	818.6	820.0	824.3	834.2	834.2	862.6	882.4	895.2
5°	729.2	722.1	725.0	733.5	754.7	753.3	777.4	790.2	824.3	852.6	882.4
7.5°	639.8	638.4	644.1	663.9	679.6	692.3	717.9	750.5	795.9	838.4	890.9
10°	583.1	580.2	591.6	597.3	615.7	624.2	663.9	715.0	768.9	829.9	890.9
12.5°	570.3	560.4	566.1	564.6	581.7	585.9	624.2	686.6	751.9	827.1	902.3
15°	577.4	570.3	564.6	564.6	568.9	571.7	612.9	668.2	742.0	831.4	927.8
17.5°	600.1	595.9	578.8	561.8	580.2	580.2	605.8	663.9	743.4	844.1	959.0
20°	627.1	622.8	593.0	573.2	585.9	600.1	627.1	673.9	747.7	854.1	1007.3
22.5°	656.9	656.9	615.7	593.0	610.0	611.5	659.7	705.1	764.7	879.6	1038.5
25°	693.7	690.9	651.2	625.6	631.3	646.9	690.9	739.1	795.9	915.1	1096.7
27.5°	742.0	737.7	690.9	665.4	672.5	689.5	739.1	787.4	824.3	929.2	1146.3
30°	781.7	777.4	739.1	700.8	716.4	732.0	790.2	832.8	859.7	956.2	1203.1
32.5°	790.2	783.1	757.6	740.6	757.6	787.4	832.8	876.8	917.9	1024.3	1310.9
35°	888.1	862.6	795.9	768.9	794.5	804.4	879.6	957.6	997.3	1078.2	1431.5
37.5°	1075.4	1051.3	963.3	888.1	852.6	864.0	961.9	1058.3	1096.7	1178.9	1563.4
40°	1305.2	1265.5	1171.8	1071.1	998.8	984.6	1048.4	1190.3	1227.2	1305.2	1736.5
42.5°	1567.7	1529.4	1384.6	1265.5	1191.7	1173.3	1183.2	1343.5	1374.7	1421.5	1850.0
45°	1756.3	1736.5	1573.3	1466.9	1408.8	1388.9	1364.8	1510.9	1550.6	1566.2	2014.5
47.5°	1865.6	1851.4	1760.6	1688.2	1610.2	1588.9	1604.5	1743.6	1716.6	1729.4	2172.0
50°	2011.7	1974.8	1851.4	1874.1	1858.5	1852.8	1879.8	1940.8	1901.0	1864.2	2343.7
52.5°	2129.5	2064.2	1977.7	2033.0	2057.1	2078.4	2173.4	2218.8	2041.5	1984.8	2454.3
55°	2201.8	2139.4	2162.1	2213.2	2238.7	2336.6	2448.7	2414.6	2133.7	2081.2	2601.9
57.5°	2267.1	2271.3	2332.3	2347.9	2478.5	2495.5	2711.1	2600.5	2199.0	2169.2	2660.1
60°	2424.5	2408.9	2458.6	2559.3	2684.2	2779.2	2984.9	2725.3	2231.6	2214.6	2644.4
62.5°	2708.3	2611.8	2628.8	2756.5	2939.5	3043.1	3142.4	2782.1	2223.1	2221.7	2597.6
65°	3068.6	2958.0	2906.9	3026.1	3263.0	3409.1	3319.7	2845.9	2166.3	2206.1	2423.1
67.5°	3368.0	3369.4	3274.3	3341.0	3650.3	3681.5	3487.1	2833.1	2071.3	2082.6	1997.5
70°	3712.7	3759.5	3675.8	3884.4	4039.0	4058.9	3678.7	2728.1	1867.0	1570.5	1147.7
72.5°	3800.7	3824.8	4085.8	4406.5	4581.0	4586.6	3867.4	2377.7	1228.6	693.7	356.1
75°	2984.9	3007.6	3932.6	4642.0	4901.6	4851.9	3552.4	1543.5	478.1	202.9	85.1
77.5°	1665.5	1672.6	2441.6	3752.4	4158.2	3958.2	2488.4	601.5	192.9	116.3	39.7
80°	455.4	534.8	905.1	1850.0	2539.5	2492.6	1184.6	195.8	124.8	90.8	18.4
82.5°	109.2	117.8	290.8	818.6	1342.1	1400.3	353.3	99.3	86.5	75.2	9.9
85°	39.7	44.0	89.4	398.7	689.5	632.7	106.4	49.7	63.8	58.2	4.3
87.5°	14.2	14.2	28.4	130.5	201.5	151.8	35.5	17.0	32.6	35.5	1.4
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°	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8	893.8
2.5°	896.6	896.6	916.5	933.5	939.2	946.3	939.2	954.8	953.4	946.3	949.1
5°	898.0	923.6	940.6	951.9	957.6	956.2	959.0	942.0	932.1	925.0	917.9
7.5°	905.1	929.2	960.5	957.6	942.0	909.4	883.8	838.4	794.5	793.0	786.0
10°	929.2	950.5	969.0	957.6	900.9	801.6	720.7	659.7	604.4	578.8	581.7
12.5°	946.3	986.0	977.5	919.3	801.6	671.0	551.9	462.5	412.8	366.0	366.0
15°	981.7	995.9	993.1	864.0	679.6	523.5	378.8	288.0	235.5	214.2	211.4
17.5°	1015.8	1031.4	983.2	780.3	559.0	351.8	229.8	178.8	171.7	168.8	170.2
20°	1058.3	1059.8	974.6	696.6	419.9	222.7	164.6	160.3	161.7	160.3	160.3
22.5°	1103.7	1113.7	944.8	578.8	279.5	161.7	153.2	154.6	154.6	154.6	158.9
25°	1163.3	1147.7	898.0	466.8	183.0	149.0	149.0	150.4	150.4	150.4	151.8
27.5°	1203.1	1181.8	838.4	336.2	143.3	140.5	143.3	143.3	146.1	146.1	146.1
30°	1285.3	1230.0	763.3	217.1	129.1	133.4	136.2	139.0	140.5	143.3	144.7
32.5°	1349.2	1272.6	669.6	144.7	117.8	120.6	127.7	133.4	139.0	137.6	137.6
35°	1465.5	1342.1	583.1	114.9	107.8	107.8	114.9	124.8	133.4	136.2	136.2
37.5°	1598.9	1398.8	462.5	105.0	99.3	99.3	103.6	114.9	126.3	131.9	129.1
40°	1709.5	1464.1	341.9	97.9	92.2	92.2	95.1	103.6	116.3	126.3	127.7
42.5°	1787.6	1512.3	231.2	90.8	86.5	85.1	89.4	93.6	103.6	117.8	120.6
45°	1858.5	1537.9	143.3	83.7	80.9	80.9	80.9	85.1	92.2	105.0	107.8
47.5°	1984.8	1566.2	103.6	78.0	73.8	75.2	76.6	78.0	83.7	86.5	88.0
50°	2091.2	1587.5	85.1	72.4	69.5	70.9	70.9	70.9	73.8	69.5	69.5
52.5°	2172.0	1566.2	72.4	66.7	63.8	65.3	63.8	63.8	61.0	55.3	55.3
55°	2231.6	1527.9	58.2	61.0	61.0	61.0	58.2	53.9	48.2	44.0	44.0
57.5°	2247.2	1462.7	45.4	51.1	55.3	55.3	49.7	44.0	36.9	32.6	31.2
60°	2223.1	1320.8	34.0	36.9	42.6	44.0	39.7	32.6	25.5	21.3	21.3
62.5°	2136.6	1208.7	27.0	24.1	31.2	32.6	28.4	21.3	14.2	9.9	8.5
65°	1972.0	1035.6	19.9	17.0	21.3	22.7	18.4	9.9	4.3	1.4	0.0
67.5°	1581.8	780.3	12.8	11.3	14.2	14.2	8.5	2.8	0.0	0.0	0.0
70°	875.3	438.4	8.5	5.7	7.1	4.3	1.4	0.0	0.0	0.0	0.0
72.5°	252.5	124.8	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	68.1	29.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.8	11.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)