

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: P676621

Luminaire Tested: **CCW-SA-1E-835-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676621
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-835-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

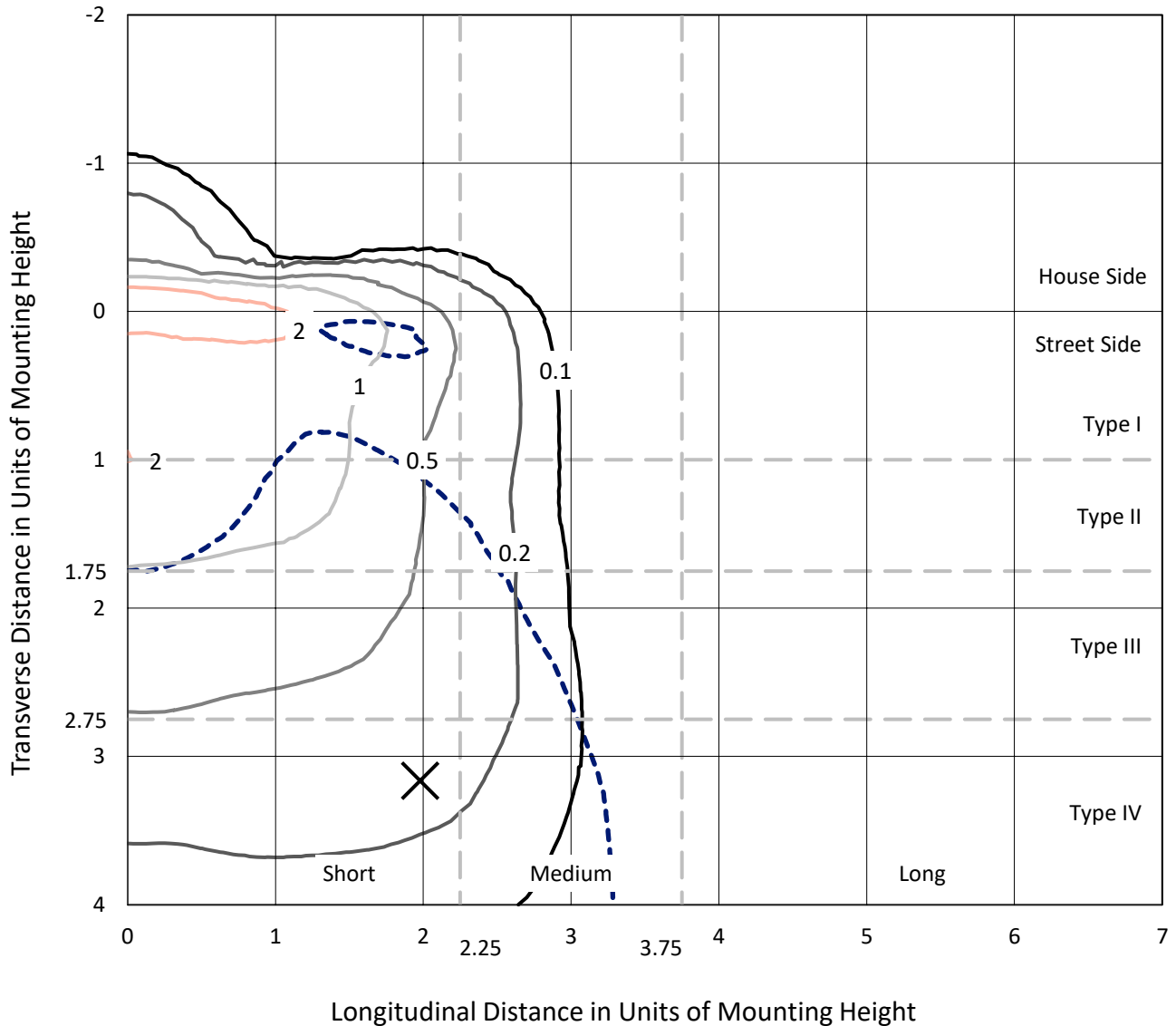
Lumens per Lamp: N/A
Luminaire Lumens: 4045.3 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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: P676621
 CATALOG NUMBER: CCW-SA-1E-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

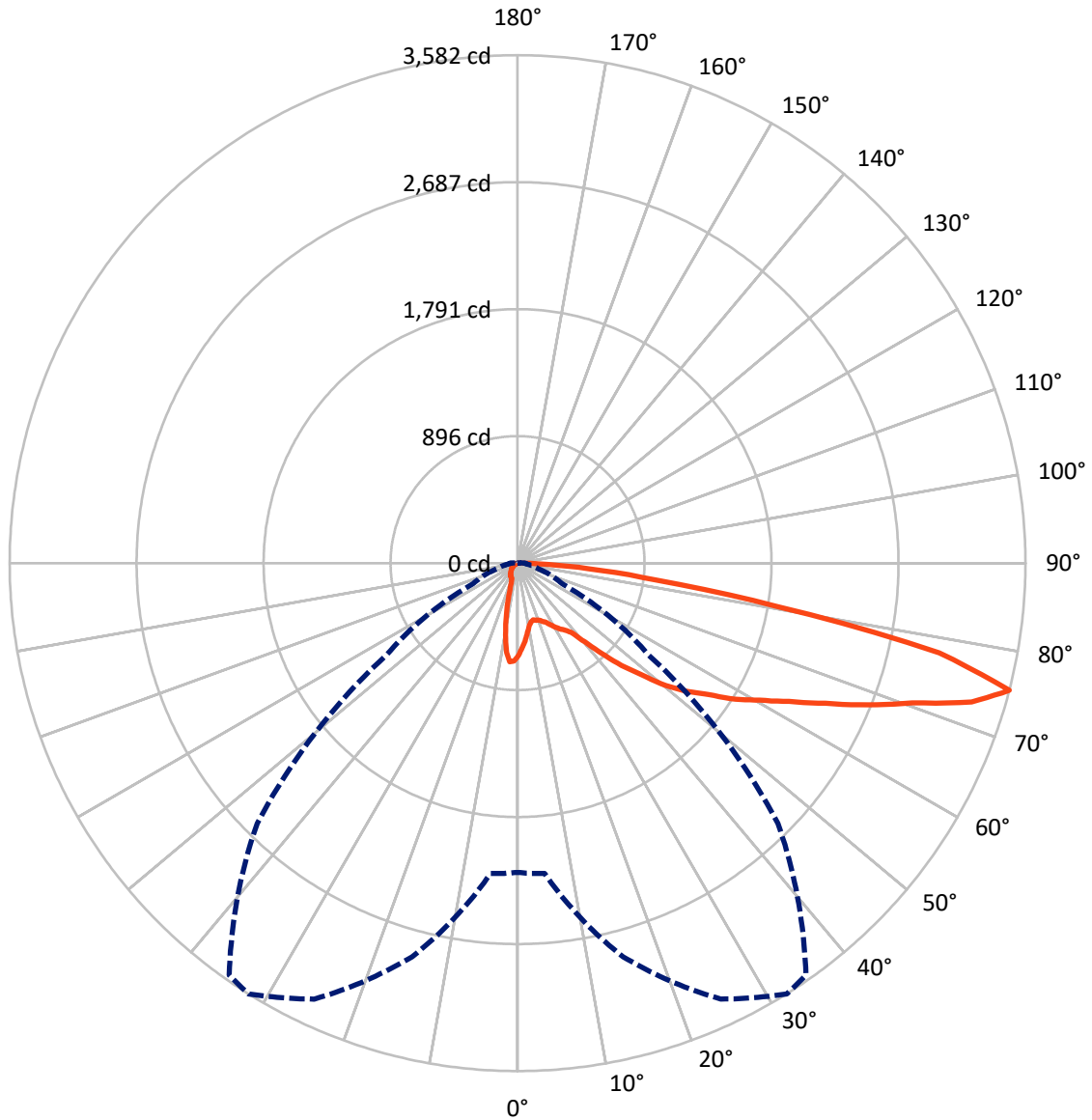
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P676621
CATALOG NUMBER: CCW-SA-1E-835-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	437.0	0.0	437.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3608.2	0.0	3608.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	4045.3	0.0	4045.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.4
10°-20°	130.3	3.2
20°-30°	195.1	4.8
30°-40°	299.5	7.4
40°-50°	523.8	12.9
50°-60°	818.7	20.2
60°-70°	1058.5	26.2
70°-80°	862.1	21.3
80°-90°	99.8	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°	4045.3	100.0
0°-180°	4045.3	100.0



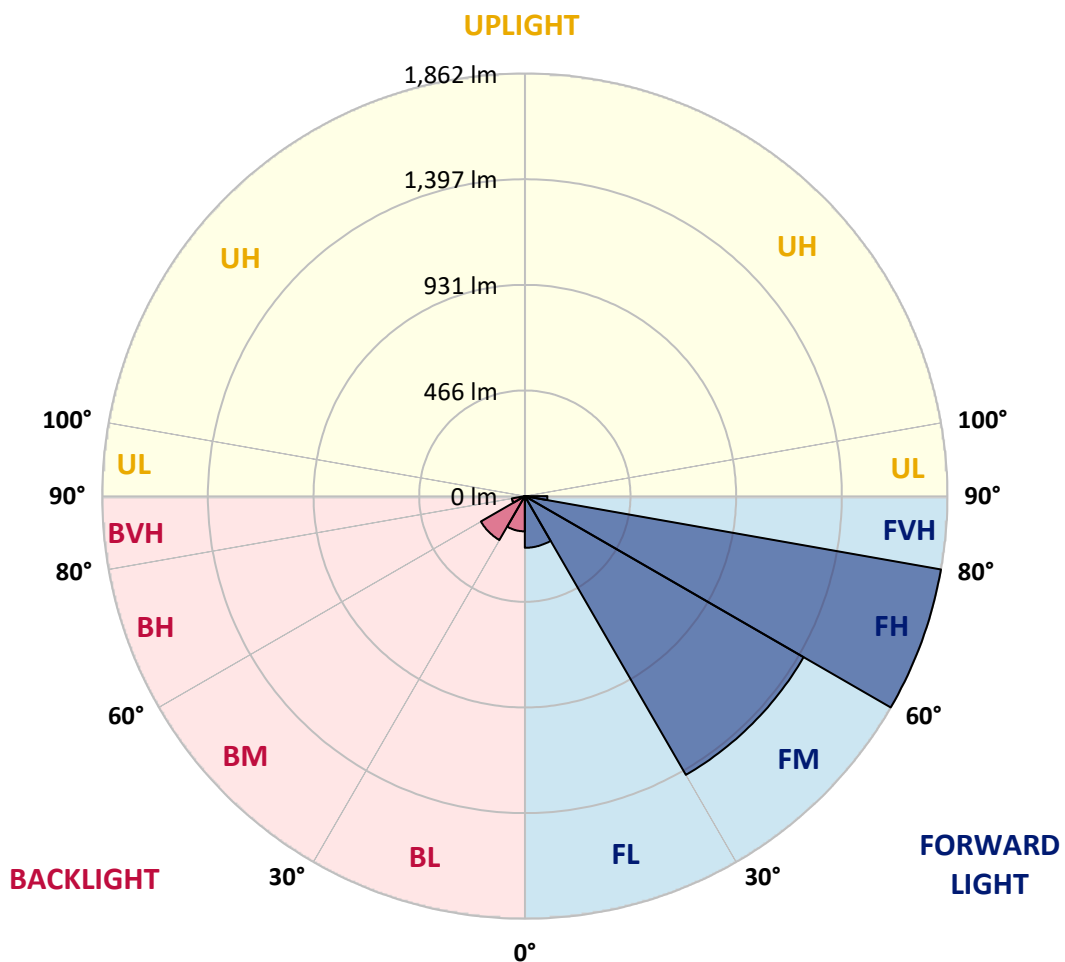
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 CATALOG NUMBER: CCW-SA-1E-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.6	5.6			
FM (30°-60°)	1418.4	35.1			
FH (60°-80°)	1862.5	46.0			G2/5000
FVH (80°-90°)	99.7	2.5			G1/100
BL (0°-30°)	155.2	3.8	B1/500		
BM (30°-60°)	223.6	5.5	B1/1000		
BH (60°-80°)	58.1	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: P676621

CATALOG NUMBER: CCW-SA-1E-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2
2.5°	585.8	594.1	593.1	598.2	599.3	602.4	609.6	609.6	630.4	644.9	654.2
5°	532.9	527.7	529.8	536.0	551.6	550.5	568.2	577.5	602.4	623.1	644.9
7.5°	467.6	466.6	470.7	485.2	496.6	506.0	524.6	548.5	581.6	612.8	651.1
10°	426.1	424.1	432.3	436.5	450.0	456.2	485.2	522.5	561.9	606.5	651.1
12.5°	416.8	409.5	413.7	412.6	425.1	428.2	456.2	501.8	549.5	604.5	659.4
15°	422.0	416.8	412.6	412.6	415.8	417.8	447.9	488.3	542.2	607.6	678.1
17.5°	438.6	435.5	423.0	410.6	424.1	424.1	442.7	485.2	543.3	616.9	700.9
20°	458.3	455.2	433.4	418.9	428.2	438.6	458.3	492.5	546.4	624.2	736.1
22.5°	480.0	480.0	450.0	433.4	445.8	446.9	482.1	515.3	558.8	642.8	758.9
25°	507.0	504.9	475.9	457.2	461.4	472.8	504.9	540.2	581.6	668.7	801.4
27.5°	542.2	539.1	504.9	486.3	491.4	503.9	540.2	575.4	602.4	679.1	837.7
30°	571.3	568.2	540.2	512.2	523.6	535.0	577.5	608.6	628.3	698.8	879.2
32.5°	577.5	572.3	553.7	541.2	553.7	575.4	608.6	640.7	670.8	748.6	958.0
35°	649.0	630.4	581.6	561.9	580.6	587.9	642.8	699.8	728.9	788.0	1046.1
37.5°	785.9	768.3	704.0	649.0	623.1	631.4	703.0	773.5	801.4	861.6	1142.6
40°	953.9	924.8	856.4	782.8	729.9	719.5	766.2	869.9	896.8	953.9	1269.0
42.5°	1145.7	1117.7	1011.9	924.8	870.9	857.4	864.7	981.9	1004.7	1038.9	1352.0
45°	1283.6	1269.0	1149.8	1072.1	1029.5	1015.0	997.4	1104.2	1133.2	1144.6	1472.3
47.5°	1363.4	1353.0	1286.7	1233.8	1176.8	1161.2	1172.6	1274.2	1254.5	1263.9	1587.3
50°	1470.2	1443.2	1353.0	1369.6	1358.2	1354.1	1373.8	1418.3	1389.3	1362.4	1712.8
52.5°	1556.2	1508.5	1445.3	1485.7	1503.4	1518.9	1588.4	1621.6	1492.0	1450.5	1793.7
55°	1609.1	1563.5	1580.1	1617.4	1636.1	1707.6	1789.5	1764.6	1559.4	1521.0	1901.5
57.5°	1656.8	1659.9	1704.5	1715.9	1811.3	1823.7	1981.3	1900.5	1607.0	1585.3	1944.0
60°	1771.9	1760.5	1796.8	1870.4	1961.6	2031.1	2181.4	1991.7	1630.9	1618.5	1932.6
62.5°	1979.3	1908.8	1921.2	2014.5	2148.3	2223.9	2296.5	2033.2	1624.7	1623.6	1898.4
65°	2242.6	2161.7	2124.4	2211.5	2384.6	2491.4	2426.1	2079.8	1583.2	1612.2	1770.9
67.5°	2461.4	2462.4	2392.9	2441.7	2667.7	2690.5	2548.5	2070.5	1513.7	1522.0	1459.8
70°	2713.3	2747.5	2686.4	2838.8	2951.8	2966.3	2688.4	1993.8	1364.4	1147.7	838.8
72.5°	2777.6	2795.2	2986.0	3220.3	3347.8	3352.0	2826.3	1737.7	897.9	507.0	260.2
75°	2181.4	2198.0	2874.0	3392.4	3582.2	3545.9	2596.2	1128.0	349.4	148.3	62.2
77.5°	1217.2	1222.4	1784.3	2742.3	3038.9	2892.7	1818.6	439.6	141.0	85.0	29.0
80°	332.8	390.9	661.5	1352.0	1855.9	1821.7	865.7	143.1	91.2	66.4	13.5
82.5°	79.8	86.1	212.5	598.2	980.8	1023.3	258.2	72.6	63.2	55.0	7.3
85°	29.0	32.1	65.3	291.3	503.9	462.4	77.8	36.3	46.7	42.5	3.1
87.5°	10.4	10.4	20.7	95.4	147.2	110.9	25.9	12.4	23.8	25.9	1.0
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: P676621
 CATALOG NUMBER: CCW-SA-1E-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2	653.2
2.5°	655.3	655.3	669.8	682.2	686.4	691.5	686.4	697.8	696.7	691.5	693.6
5°	656.3	675.0	687.4	695.7	699.8	698.8	700.9	688.4	681.2	676.0	670.8
7.5°	661.5	679.1	701.9	699.8	688.4	664.6	645.9	612.8	580.6	579.6	574.4
10°	679.1	694.7	708.1	699.8	658.4	585.8	526.7	482.1	441.7	423.0	425.1
12.5°	691.5	720.6	714.4	671.8	585.8	490.4	403.3	338.0	301.7	267.5	267.5
15°	717.5	727.8	725.8	631.4	496.6	382.6	276.8	210.5	172.1	156.6	154.5
17.5°	742.4	753.8	718.5	570.2	408.5	257.1	168.0	130.6	125.5	123.4	124.4
20°	773.5	774.5	712.3	509.1	306.9	162.8	120.3	117.2	118.2	117.2	117.2
22.5°	806.6	813.9	690.5	423.0	204.3	118.2	112.0	113.0	113.0	113.0	116.1
25°	850.2	838.8	656.3	341.1	133.7	108.9	108.9	109.9	109.9	109.9	110.9
27.5°	879.2	863.7	612.8	245.7	104.7	102.6	104.7	104.7	106.8	106.8	106.8
30°	939.3	898.9	557.8	158.6	94.3	97.5	99.5	101.6	102.6	104.7	105.8
32.5°	986.0	930.0	489.4	105.8	86.1	88.1	93.3	97.5	101.6	100.6	100.6
35°	1071.0	980.8	426.1	84.0	78.8	78.8	84.0	91.2	97.5	99.5	99.5
37.5°	1168.5	1022.3	338.0	76.7	72.6	72.6	75.7	84.0	92.3	96.4	94.3
40°	1249.3	1070.0	249.9	71.5	67.4	67.4	69.5	75.7	85.0	92.3	93.3
42.5°	1306.4	1105.2	169.0	66.4	63.2	62.2	65.3	68.4	75.7	86.1	88.1
45°	1358.2	1123.9	104.7	61.2	59.1	59.1	59.1	62.2	67.4	76.7	78.8
47.5°	1450.5	1144.6	75.7	57.0	53.9	55.0	56.0	57.0	61.2	63.2	64.3
50°	1528.2	1160.2	62.2	52.9	50.8	51.8	51.8	51.8	53.9	50.8	50.8
52.5°	1587.3	1144.6	52.9	48.7	46.7	47.7	46.7	46.7	44.6	40.4	40.4
55°	1630.9	1116.6	42.5	44.6	44.6	44.6	42.5	39.4	35.3	32.1	32.1
57.5°	1642.3	1068.9	33.2	37.3	40.4	40.4	36.3	32.1	27.0	23.8	22.8
60°	1624.7	965.3	24.9	27.0	31.1	32.1	29.0	23.8	18.7	15.6	15.6
62.5°	1561.4	883.4	19.7	17.6	22.8	23.8	20.7	15.6	10.4	7.3	6.2
65°	1441.2	756.9	14.5	12.4	15.6	16.6	13.5	7.3	3.1	1.0	0.0
67.5°	1156.0	570.2	9.3	8.3	10.4	10.4	6.2	2.1	0.0	0.0	0.0
70°	639.7	320.4	6.2	4.1	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	184.6	91.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.8	21.8	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	21.8	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)