

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: P676491

Luminaire Tested: **CCW-SA-2B-840-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676491
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

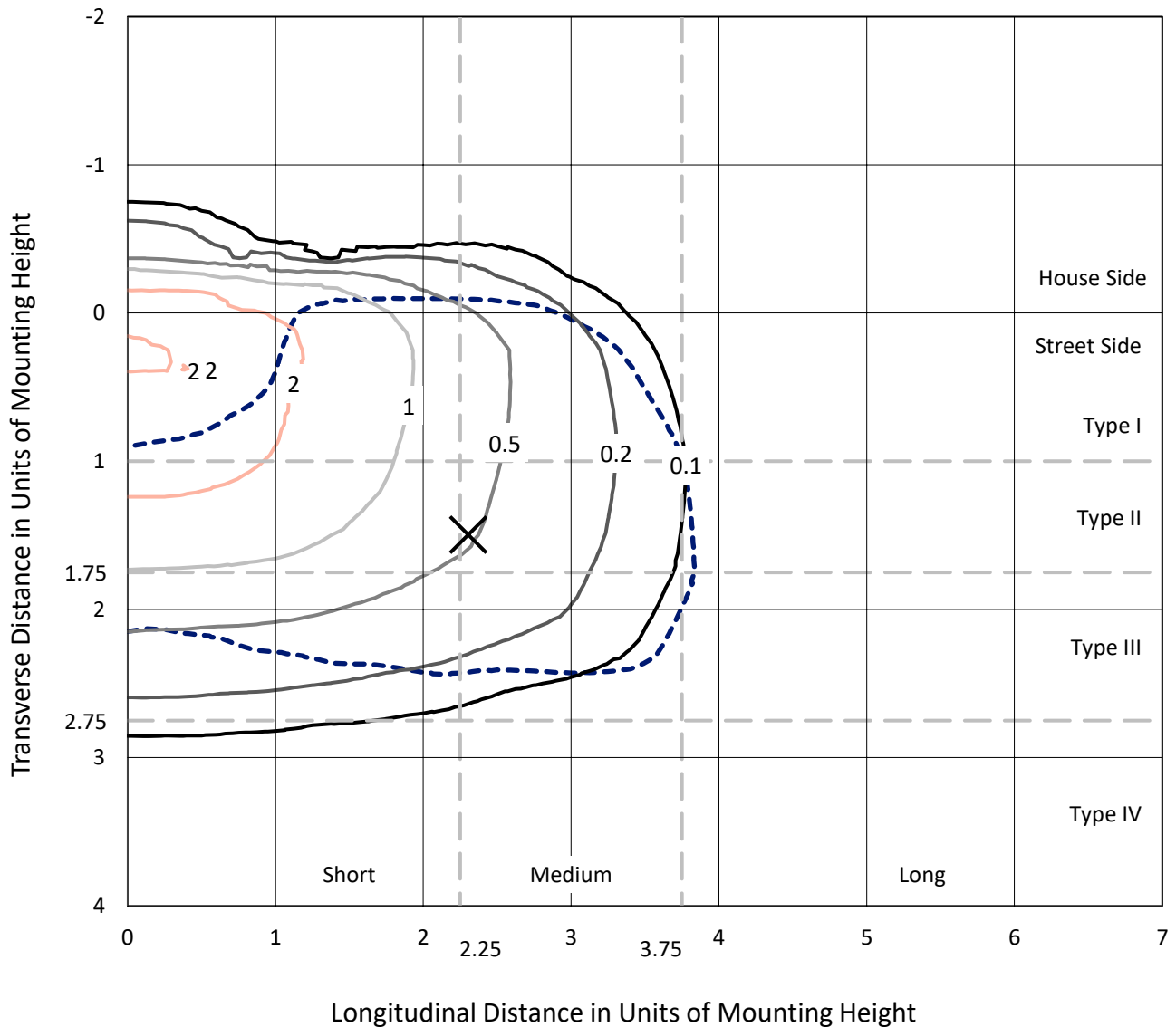
Lumens per Lamp: N/A
Luminaire Lumens: 4242 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

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Iso-Footcandle Lines of Horizontal Illumination

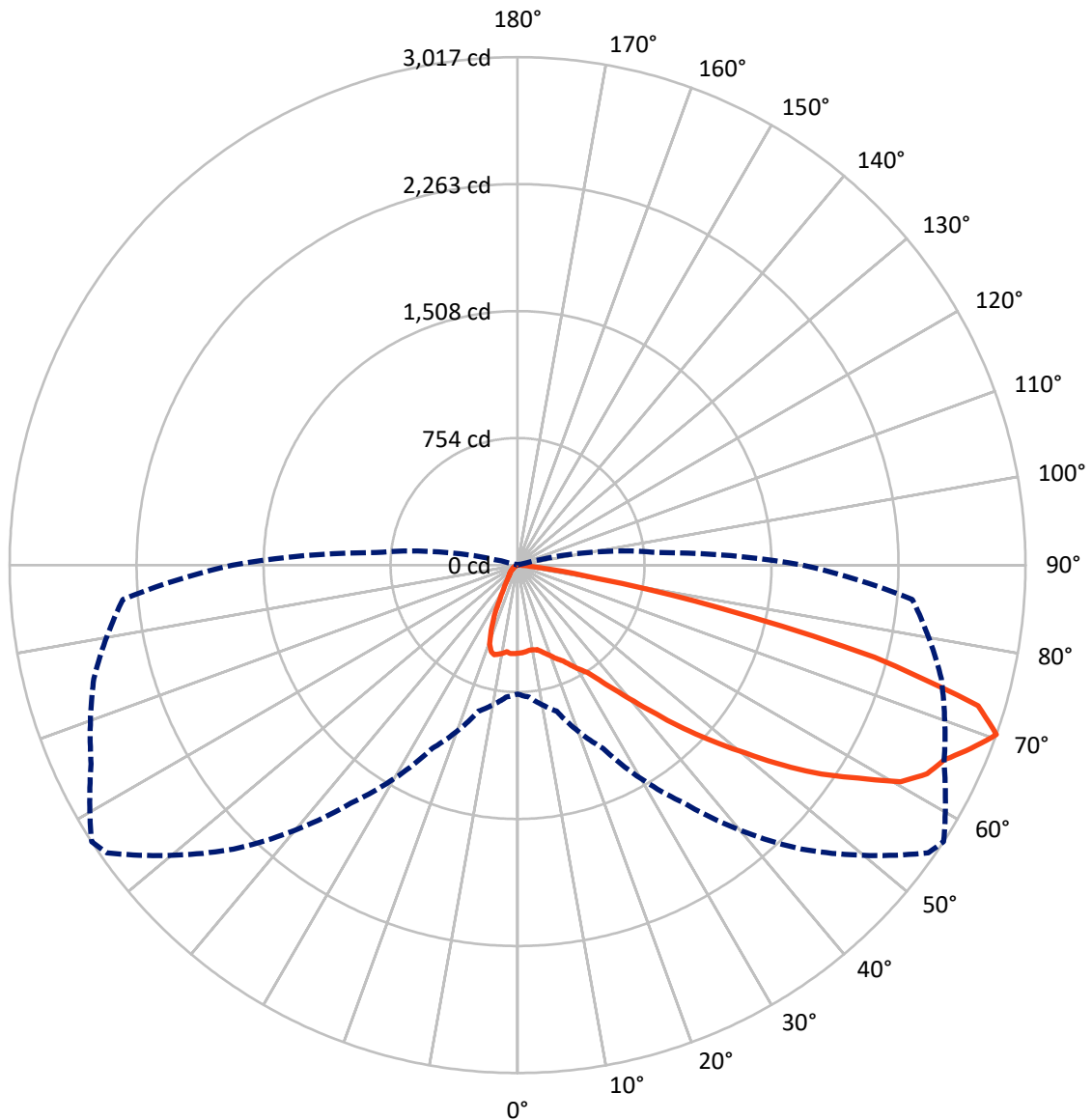
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.0	0.0	500.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3741.9	0.0	3741.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	4242.0	0.0	4242.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.2
10°-20°	136.7	3.2
20°-30°	230.4	5.4
30°-40°	394.2	9.3
40°-50°	662.0	15.6
50°-60°	1016.1	24.0
60°-70°	1173.2	27.7
70°-80°	554.2	13.1
80°-90°	26.3	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°	4242.0	100.0
0°-180°	4242.0	100.0

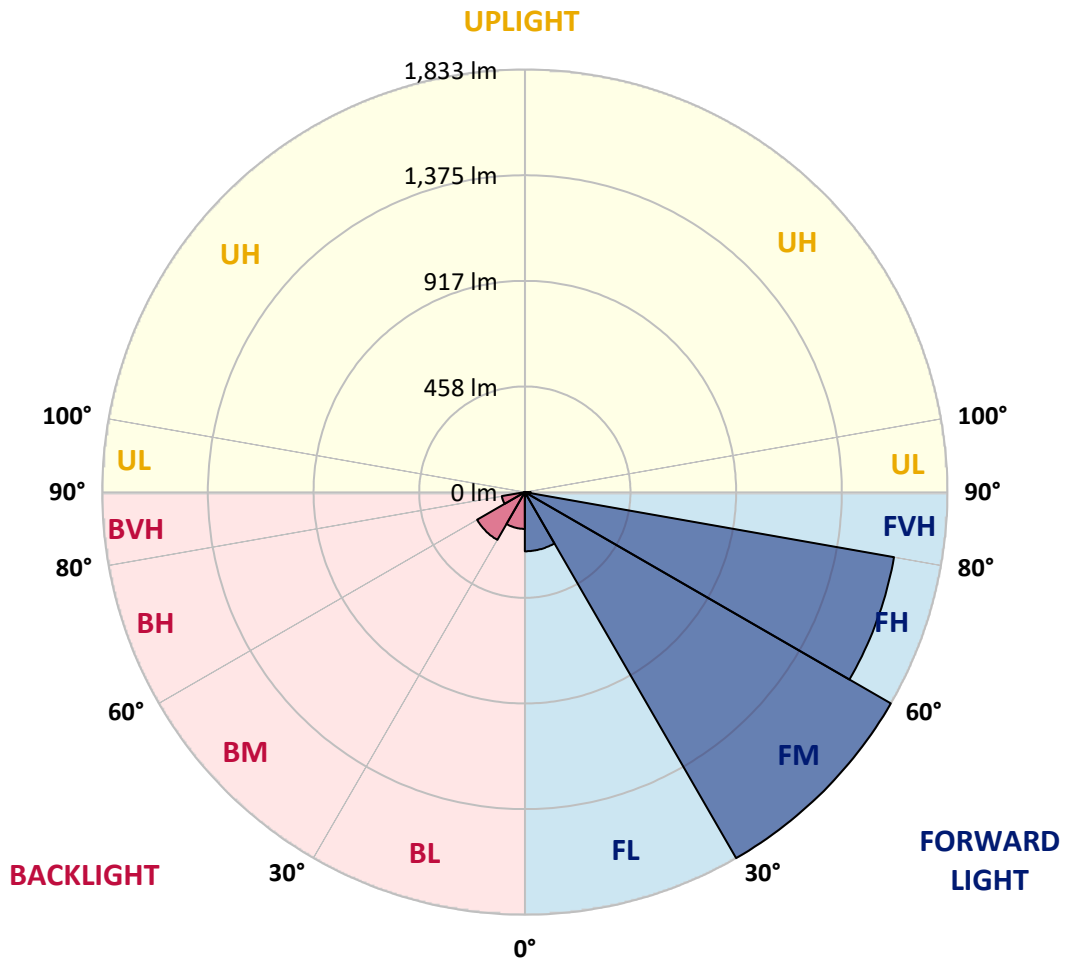


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.6	6.0			
FM (30°-60°)	1833.3	43.2			
FH (60°-80°)	1626.2	38.3			G1/1800
FVH (80°-90°)	25.8	0.6			G1/100
BL (0°-30°)	159.4	3.8	B1/500		
BM (30°-60°)	239.0	5.6	B1/1000		
BH (60°-80°)	101.1	2.4	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4
2.5°	515.8	512.6	515.8	520.1	515.8	519.1	518.0	521.2	516.9	516.9	520.1
5°	482.2	487.6	489.8	495.2	500.6	510.4	516.9	516.9	523.4	526.7	531.0
7.5°	470.3	461.6	470.3	474.6	480.1	496.3	506.1	510.4	519.1	531.0	537.5
10°	453.0	459.5	459.5	473.6	481.1	490.9	508.2	511.5	531.0	542.9	549.4
12.5°	451.9	451.9	457.3	467.1	482.2	500.6	522.3	515.8	536.4	558.1	568.9
15°	455.1	462.7	462.7	475.7	487.6	513.6	532.1	533.2	562.4	584.1	593.8
17.5°	469.2	466.0	470.3	477.9	496.3	521.2	551.6	554.8	588.4	617.7	631.8
20°	498.5	503.9	497.4	493.1	500.6	533.2	572.2	578.7	616.6	644.8	658.9
22.5°	607.9	603.6	577.6	547.2	534.2	549.4	591.7	606.8	651.3	684.9	696.8
25°	731.5	723.9	693.5	648.0	588.4	581.9	630.7	630.7	694.6	731.5	728.2
27.5°	848.5	846.3	810.6	762.9	678.4	631.8	662.1	674.0	743.4	773.7	759.6
30°	967.7	969.9	937.4	879.9	791.1	712.0	706.5	716.3	780.2	827.9	798.6
32.5°	1106.4	1086.9	1064.1	985.0	903.8	814.9	764.0	759.6	821.4	864.7	825.7
35°	1229.9	1218.0	1193.1	1121.6	1028.4	922.2	850.7	839.8	873.4	930.9	888.6
37.5°	1338.3	1326.4	1293.9	1246.2	1173.6	1055.5	954.7	938.4	952.5	1013.2	962.3
40°	1431.5	1434.7	1426.1	1379.5	1312.3	1205.0	1089.1	1063.1	1051.1	1105.3	1047.9
42.5°	1498.7	1530.1	1532.3	1474.8	1420.7	1362.1	1232.1	1211.5	1183.3	1228.9	1188.8
45°	1639.6	1622.2	1633.1	1612.5	1552.9	1544.2	1396.8	1384.9	1345.9	1361.1	1318.8
47.5°	1750.1	1746.8	1767.4	1733.8	1717.6	1718.7	1584.3	1563.7	1508.4	1536.6	1488.9
50°	1814.0	1796.7	1871.5	1897.5	1894.2	1907.2	1773.9	1756.6	1703.5	1744.7	1642.8
52.5°	1829.2	1860.6	1931.1	2025.3	2065.4	2092.5	1980.9	1974.4	1917.0	1943.0	1802.1
55°	1867.1	1897.5	1938.6	2093.6	2242.1	2248.6	2184.6	2191.1	2140.2	2133.7	1953.8
57.5°	1866.0	1859.5	1973.3	2153.2	2359.1	2452.3	2417.6	2386.2	2330.9	2267.0	2051.3
60°	1797.8	1794.5	1912.6	2160.8	2423.0	2636.5	2650.6	2613.8	2475.0	2380.8	2166.2
62.5°	1662.3	1675.3	1794.5	2095.8	2483.7	2702.6	2754.6	2729.7	2557.4	2456.6	2301.7
65°	1507.4	1480.3	1619.0	1933.2	2347.2	2683.1	2795.8	2787.1	2654.9	2539.0	2426.3
67.5°	1209.3	1221.3	1327.5	1663.4	2114.2	2611.6	2892.3	2905.3	2733.0	2611.6	2464.2
70°	766.1	787.8	898.3	1201.8	1726.2	2386.2	2978.9	3016.9	2794.7	2605.1	2353.7
72.5°	223.2	231.9	382.5	599.3	1099.9	1913.7	2840.2	2859.7	2674.4	2364.5	1820.5
75°	73.7	78.0	112.7	195.1	431.3	989.4	2097.9	2190.0	2128.3	1714.3	1041.4
77.5°	48.8	50.9	61.8	93.2	163.6	309.9	1124.8	1223.4	1199.6	803.0	335.9
80°	35.8	36.8	45.5	62.9	99.7	111.6	415.0	480.1	463.8	184.2	67.2
82.5°	22.8	22.8	33.6	44.4	62.9	55.3	120.3	133.3	130.0	70.4	26.0
85°	15.2	16.3	24.9	34.7	34.7	26.0	34.7	40.1	43.3	37.9	11.9
87.5°	4.3	5.4	14.1	23.8	14.1	13.0	11.9	13.0	15.2	20.6	6.5
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°	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4	523.4
2.5°	523.4	527.7	526.7	528.8	525.6	522.3	525.6	525.6	525.6	522.3	520.1
5°	527.7	525.6	527.7	523.4	527.7	523.4	521.2	514.7	513.6	513.6	518.0
7.5°	534.2	536.4	526.7	526.7	516.9	519.1	513.6	514.7	512.6	509.3	507.1
10°	544.0	552.7	542.9	539.7	528.8	520.1	507.1	500.6	500.6	496.3	500.6
12.5°	571.1	567.8	562.4	551.6	538.6	521.2	489.8	458.4	432.4	412.9	422.6
15°	592.8	591.7	584.1	563.5	546.2	493.1	414.0	332.7	289.3	269.8	266.6
17.5°	626.3	623.1	610.1	583.0	525.6	408.5	283.9	215.6	173.4	163.6	160.4
20°	657.8	656.7	628.5	593.8	473.6	298.0	185.3	142.0	130.0	131.1	129.0
22.5°	691.4	685.9	652.4	580.8	377.1	198.3	132.2	126.8	122.5	121.4	123.5
25°	729.3	709.8	676.2	551.6	277.4	136.5	124.6	120.3	116.0	114.9	114.9
27.5°	744.5	731.5	687.0	481.1	175.6	119.2	117.0	111.6	106.2	102.9	101.9
30°	779.1	757.5	697.9	378.2	124.6	109.4	106.2	99.7	92.1	86.7	86.7
32.5°	813.8	787.8	699.0	264.4	104.0	98.6	93.2	84.5	74.8	69.4	70.4
35°	857.2	821.4	687.0	171.2	93.2	86.7	75.9	66.1	57.4	53.1	53.1
37.5°	930.9	897.3	638.3	112.7	84.5	73.7	62.9	52.0	44.4	41.2	41.2
40°	1024.0	980.7	571.1	88.9	74.8	62.9	49.8	40.1	35.8	32.5	32.5
42.5°	1135.7	1081.5	471.4	79.1	66.1	52.0	39.0	31.4	27.1	27.1	26.0
45°	1247.3	1158.4	369.5	72.6	58.5	43.3	30.3	24.9	22.8	21.7	21.7
47.5°	1406.6	1251.6	264.4	66.1	50.9	33.6	24.9	20.6	18.4	17.3	18.4
50°	1559.4	1339.4	187.5	59.6	42.3	27.1	20.6	18.4	16.3	15.2	15.2
52.5°	1693.7	1400.1	131.1	52.0	35.8	22.8	18.4	16.3	15.2	14.1	14.1
55°	1767.4	1379.5	89.9	44.4	29.3	19.5	16.3	14.1	13.0	11.9	11.9
57.5°	1843.3	1322.0	68.3	36.8	23.8	18.4	15.2	13.0	11.9	10.8	10.8
60°	1907.2	1279.8	53.1	29.3	19.5	15.2	13.0	10.8	9.8	8.7	7.6
62.5°	1910.5	1195.3	39.0	21.7	15.2	13.0	10.8	8.7	5.4	4.3	3.3
65°	1923.5	1106.4	28.2	16.3	10.8	9.8	7.6	4.3	2.2	0.0	0.0
67.5°	1878.0	1001.3	22.8	11.9	7.6	5.4	3.3	1.1	0.0	0.0	0.0
70°	1692.7	845.2	17.3	8.7	5.4	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	1211.5	549.4	11.9	6.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	645.9	234.1	8.7	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	202.6	59.6	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.4	16.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	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)