

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: P676477

Luminaire Tested: **CCW-SA-1E-835-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676477
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-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

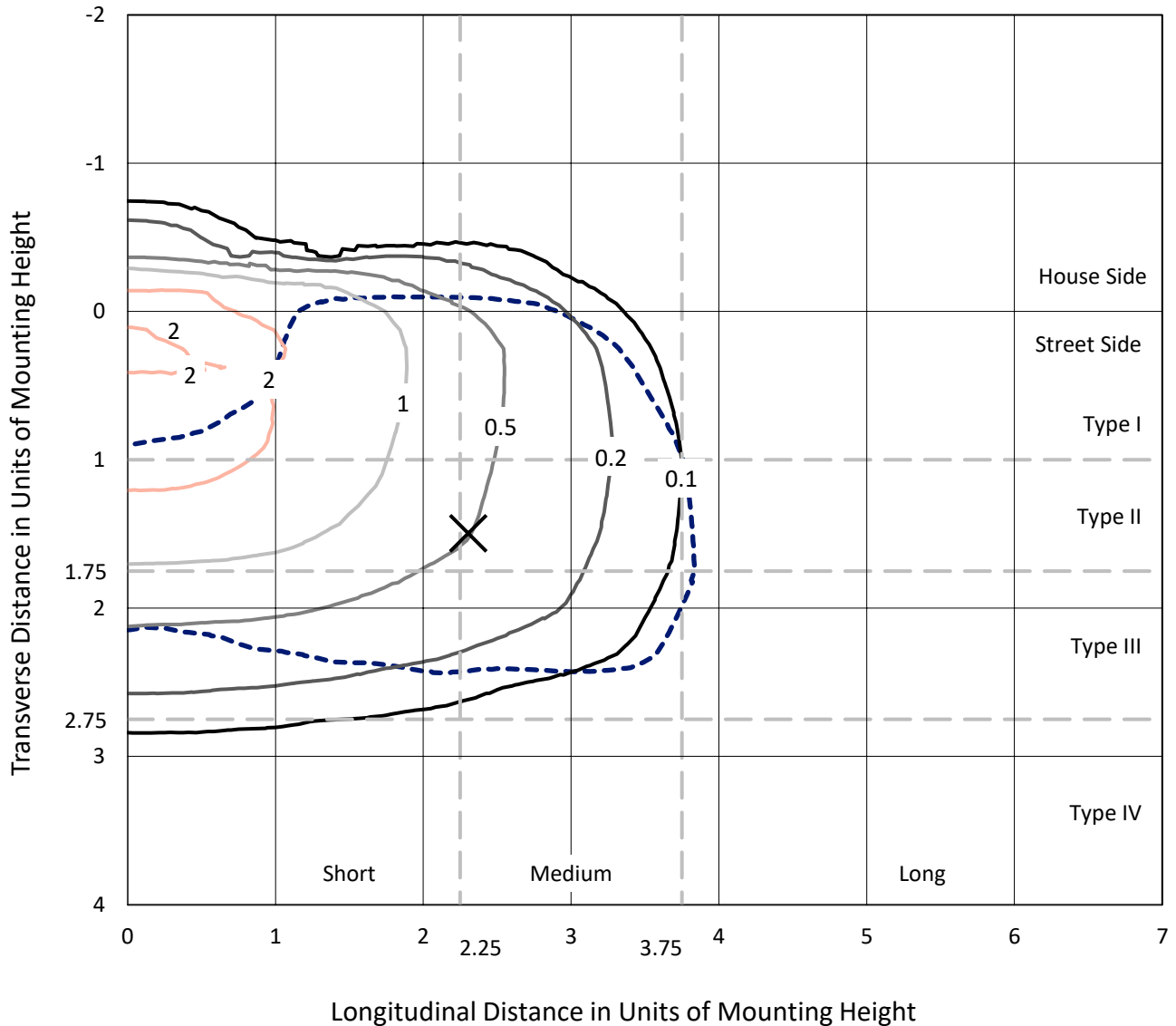
Lumens per Lamp: N/A
Luminaire Lumens: 4058.6 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

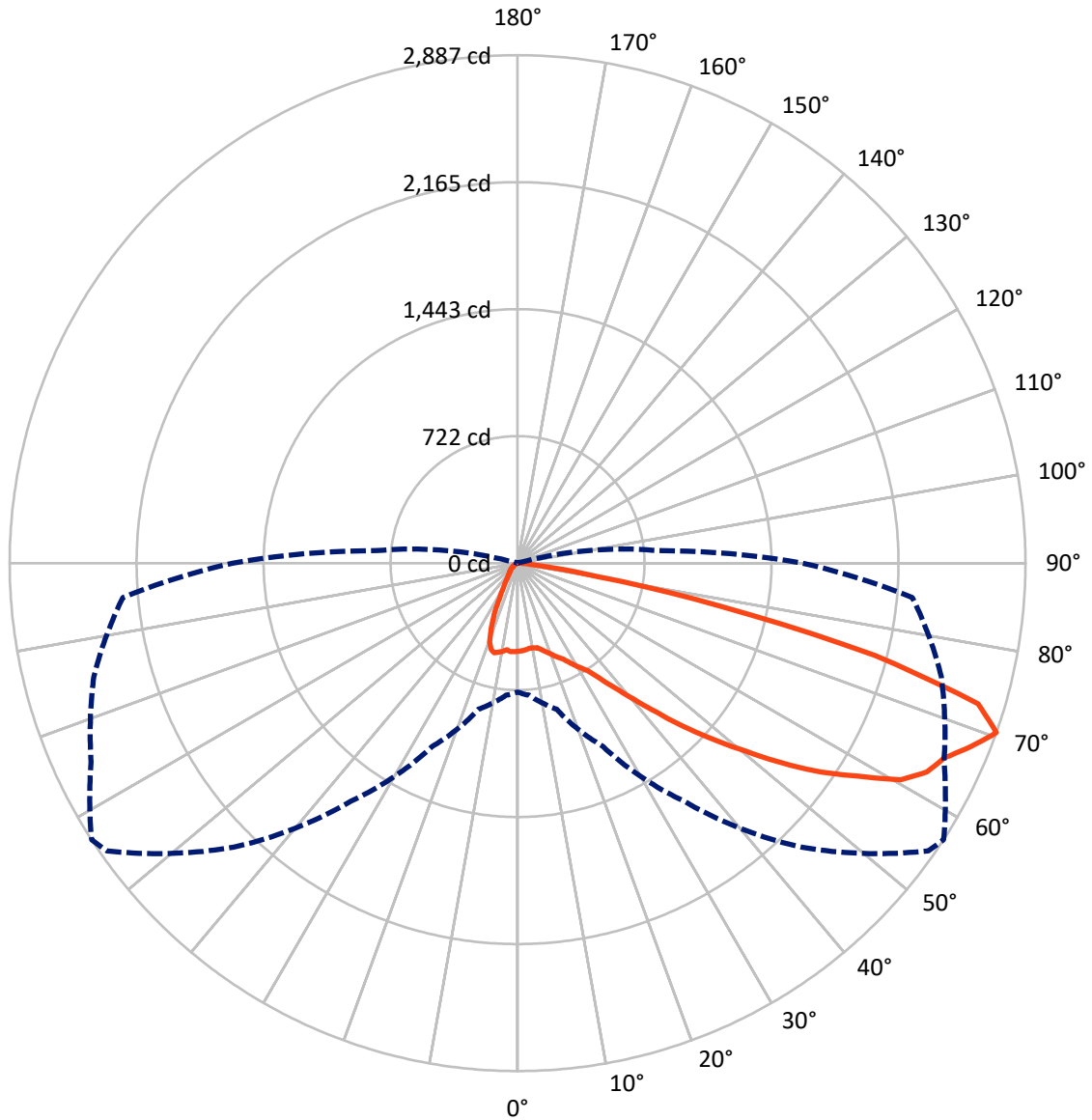
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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	478.4	0.0	478.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3580.2	0.0	3580.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	4058.6	0.0	4058.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	130.8	3.2
20°-30°	220.4	5.4
30°-40°	377.2	9.3
40°-50°	633.3	15.6
50°-60°	972.2	24.0
60°-70°	1122.4	27.7
70°-80°	530.2	13.1
80°-90°	25.2	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°	4058.6	100.0
0°-180°	4058.6	100.0



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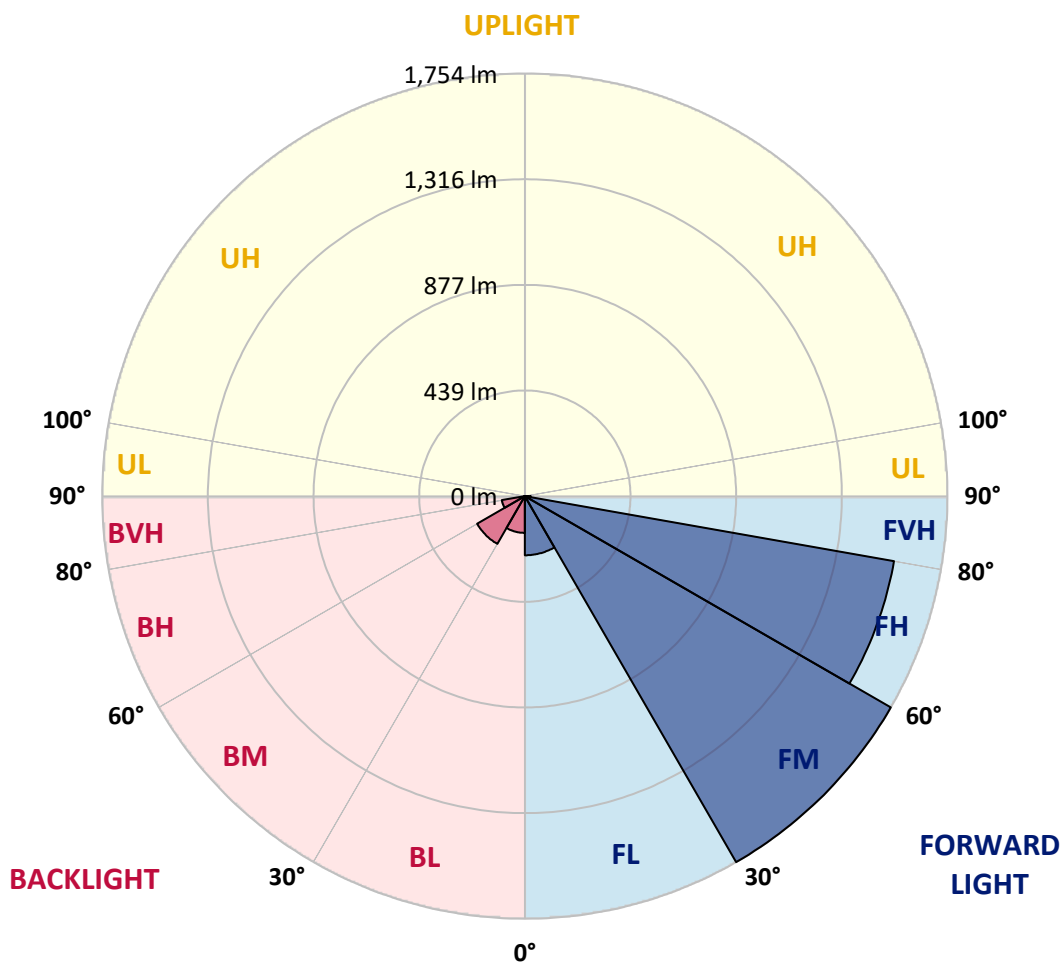
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.5	6.0			
FM (30°-60°)	1754.1	43.2			
FH (60°-80°)	1555.9	38.3			G1/1800
FVH (80°-90°)	24.7	0.6			G1/100
BL (0°-30°)	152.5	3.8	B1/500		
BM (30°-60°)	228.7	5.6	B1/1000		
BH (60°-80°)	96.8	2.4	B0/110		G0/110
BVH (80°-90°)	0.4	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°	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8
2.5°	493.5	490.4	493.5	497.7	493.5	496.6	495.6	498.7	494.6	494.6	497.7
5°	461.4	466.6	468.6	473.8	479.0	488.3	494.6	494.6	500.8	503.9	508.0
7.5°	450.0	441.7	450.0	454.1	459.3	474.9	484.2	488.3	496.6	508.0	514.3
10°	433.4	439.6	439.6	453.1	460.3	469.7	486.3	489.4	508.0	519.4	525.7
12.5°	432.3	432.3	437.5	446.9	461.4	479.0	499.7	493.5	513.2	534.0	544.3
15°	435.5	442.7	442.7	455.2	466.6	491.4	509.1	510.1	538.1	558.8	568.2
17.5°	448.9	445.8	450.0	457.2	474.9	498.7	527.7	530.8	563.0	591.0	604.5
20°	476.9	482.1	475.9	471.7	479.0	510.1	547.4	553.7	589.9	616.9	630.4
22.5°	581.6	577.5	552.6	523.6	511.1	525.7	566.1	580.6	623.1	655.3	666.7
25°	699.8	692.6	663.6	620.0	563.0	556.8	603.4	603.4	664.6	699.8	696.7
27.5°	811.8	809.7	775.5	729.9	649.0	604.5	633.5	644.9	711.2	740.3	726.8
30°	925.9	927.9	896.8	841.9	756.9	681.2	676.0	685.3	746.5	792.1	764.1
32.5°	1058.6	1039.9	1018.1	942.5	864.7	779.7	730.9	726.8	785.9	827.4	790.0
35°	1176.8	1165.4	1141.5	1073.1	983.9	882.3	813.9	803.5	835.7	890.6	850.2
37.5°	1280.5	1269.1	1237.9	1192.3	1122.9	1009.8	913.4	897.9	911.4	969.4	920.7
40°	1369.6	1372.7	1364.4	1319.9	1255.6	1152.9	1042.0	1017.1	1005.7	1057.5	1002.6
42.5°	1433.9	1464.0	1466.0	1411.1	1359.3	1303.3	1178.8	1159.1	1132.2	1175.7	1137.4
45°	1568.7	1552.1	1562.5	1542.8	1485.7	1477.4	1336.4	1325.0	1287.7	1302.2	1261.8
47.5°	1674.4	1671.3	1691.0	1658.9	1643.3	1644.4	1515.8	1496.1	1443.2	1470.2	1424.6
50°	1735.6	1719.0	1790.6	1815.4	1812.3	1824.8	1697.3	1680.7	1629.9	1669.3	1571.8
52.5°	1750.1	1780.2	1847.6	1937.8	1976.2	2002.1	1895.3	1889.1	1834.1	1859.0	1724.2
55°	1786.4	1815.4	1854.8	2003.1	2145.2	2151.4	2090.2	2096.4	2047.7	2041.5	1869.4
57.5°	1785.4	1779.2	1888.0	2060.1	2257.1	2346.3	2313.1	2283.0	2230.2	2169.0	1962.7
60°	1720.1	1717.0	1830.0	2067.4	2318.3	2522.5	2536.0	2500.8	2368.1	2277.9	2072.6
62.5°	1590.5	1602.9	1717.0	2005.2	2376.4	2585.8	2635.6	2611.7	2446.9	2350.4	2202.2
65°	1442.2	1416.3	1549.0	1849.7	2245.7	2567.1	2675.0	2666.7	2540.2	2429.2	2321.4
67.5°	1157.1	1168.5	1270.1	1591.5	2022.8	2498.7	2767.2	2779.7	2614.8	2498.7	2357.7
70°	733.0	753.8	859.5	1149.8	1651.6	2283.0	2850.2	2886.5	2673.9	2492.5	2251.9
72.5°	213.6	221.9	366.0	573.4	1052.4	1831.0	2717.5	2736.1	2558.8	2262.3	1741.8
75°	70.5	74.7	107.8	186.6	412.6	946.6	2007.3	2095.4	2036.3	1640.2	996.4
77.5°	46.7	48.7	59.1	89.2	156.6	296.5	1076.2	1170.6	1147.7	768.3	321.4
80°	34.2	35.3	43.5	60.1	95.4	106.8	397.1	459.3	443.8	176.3	64.3
82.5°	21.8	21.8	32.1	42.5	60.1	52.9	115.1	127.5	124.4	67.4	24.9
85°	14.5	15.6	23.8	33.2	33.2	24.9	33.2	38.4	41.5	36.3	11.4
87.5°	4.1	5.2	13.5	22.8	13.5	12.4	11.4	12.4	14.5	19.7	6.2
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°	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8	500.8
2.5°	500.8	504.9	503.9	506.0	502.9	499.7	502.9	502.9	502.9	499.7	497.7
5°	504.9	502.9	504.9	500.8	504.9	500.8	498.7	492.5	491.4	491.4	495.6
7.5°	511.1	513.2	503.9	503.9	494.6	496.6	491.4	492.5	490.4	487.3	485.2
10°	520.5	528.8	519.4	516.3	506.0	497.7	485.2	479.0	479.0	474.9	479.0
12.5°	546.4	543.3	538.1	527.7	515.3	498.7	468.6	438.6	413.7	395.0	404.4
15°	567.1	566.1	558.8	539.1	522.6	471.7	396.1	318.3	276.8	258.2	255.1
17.5°	599.3	596.2	583.7	557.8	502.9	390.9	271.6	206.3	165.9	156.6	153.4
20°	629.3	628.3	601.3	568.2	453.1	285.1	177.3	135.8	124.4	125.5	123.4
22.5°	661.5	656.3	624.2	555.7	360.8	189.7	126.5	121.3	117.2	116.1	118.2
25°	697.8	679.1	647.0	527.7	265.4	130.6	119.2	115.1	110.9	109.9	109.9
27.5°	712.3	699.8	657.3	460.3	168.0	114.0	112.0	106.8	101.6	98.5	97.5
30°	745.5	724.7	667.7	361.8	119.2	104.7	101.6	95.4	88.1	82.9	82.9
32.5°	778.6	753.8	668.7	253.0	99.5	94.3	89.2	80.9	71.5	66.4	67.4
35°	820.1	785.9	657.3	163.8	89.2	82.9	72.6	63.2	55.0	50.8	50.8
37.5°	890.6	858.5	610.7	107.8	80.9	70.5	60.1	49.8	42.5	39.4	39.4
40°	979.8	938.3	546.4	85.0	71.5	60.1	47.7	38.4	34.2	31.1	31.1
42.5°	1086.6	1034.7	451.0	75.7	63.2	49.8	37.3	30.1	25.9	25.9	24.9
45°	1193.4	1108.3	353.6	69.5	56.0	41.5	29.0	23.8	21.8	20.7	20.7
47.5°	1345.8	1197.5	253.0	63.2	48.7	32.1	23.8	19.7	17.6	16.6	17.6
50°	1492.0	1281.5	179.4	57.0	40.4	25.9	19.7	17.6	15.6	14.5	14.5
52.5°	1620.5	1339.6	125.5	49.8	34.2	21.8	17.6	15.6	14.5	13.5	13.5
55°	1691.0	1319.9	86.1	42.5	28.0	18.7	15.6	13.5	12.4	11.4	11.4
57.5°	1763.6	1264.9	65.3	35.3	22.8	17.6	14.5	12.4	11.4	10.4	10.4
60°	1824.8	1224.5	50.8	28.0	18.7	14.5	12.4	10.4	9.3	8.3	7.3
62.5°	1827.9	1143.6	37.3	20.7	14.5	12.4	10.4	8.3	5.2	4.1	3.1
65°	1840.3	1058.6	27.0	15.6	10.4	9.3	7.3	4.1	2.1	0.0	0.0
67.5°	1796.8	958.0	21.8	11.4	7.3	5.2	3.1	1.0	0.0	0.0	0.0
70°	1619.5	808.7	16.6	8.3	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	1159.1	525.7	11.4	6.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	617.9	224.0	8.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	193.9	57.0	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.5	15.6	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	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)