

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: P676593

Luminaire Tested: **CCW-SA-2D-760-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676593
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-760-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

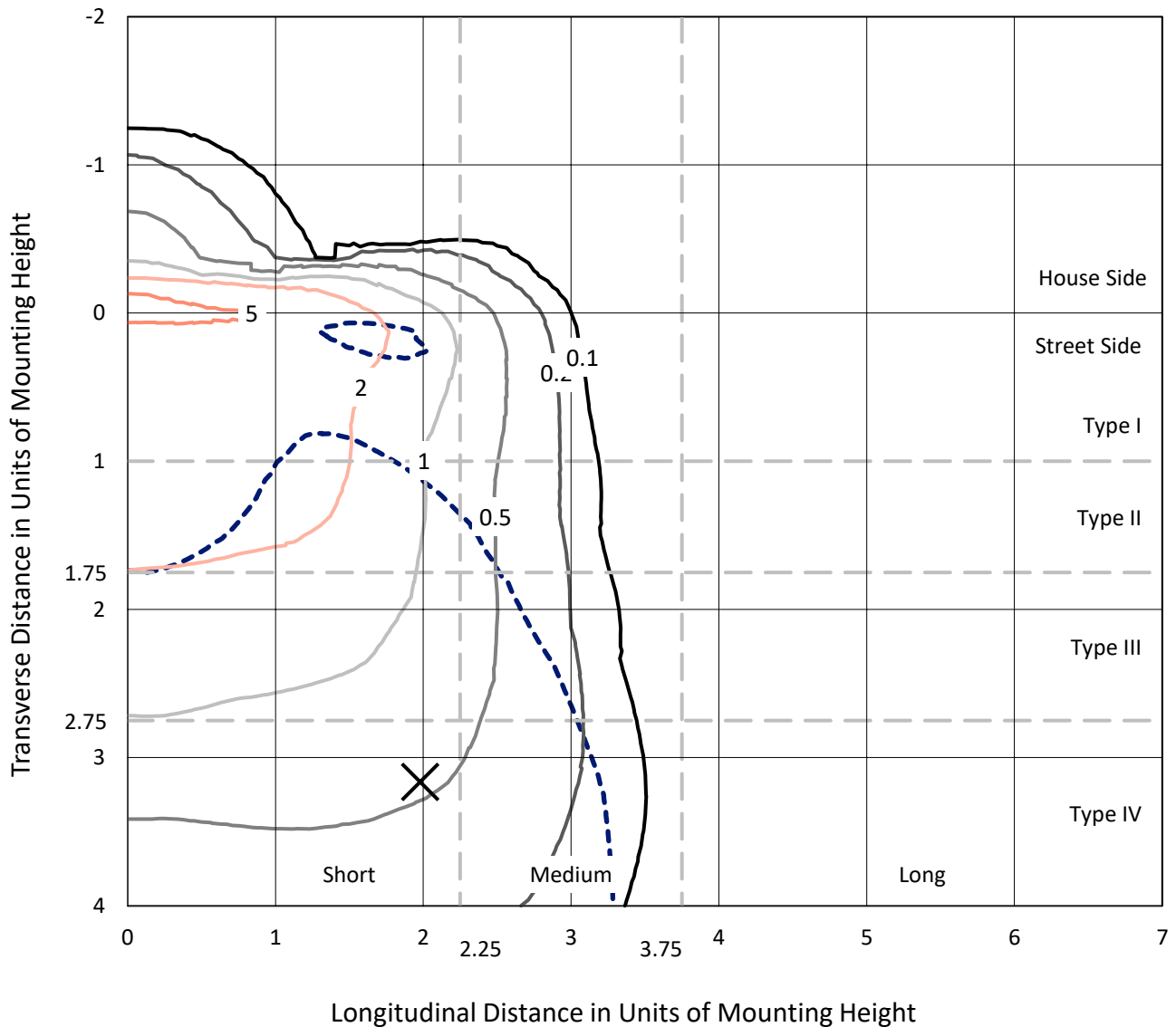
Lumens per Lamp: N/A
Luminaire Lumens: 8191.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

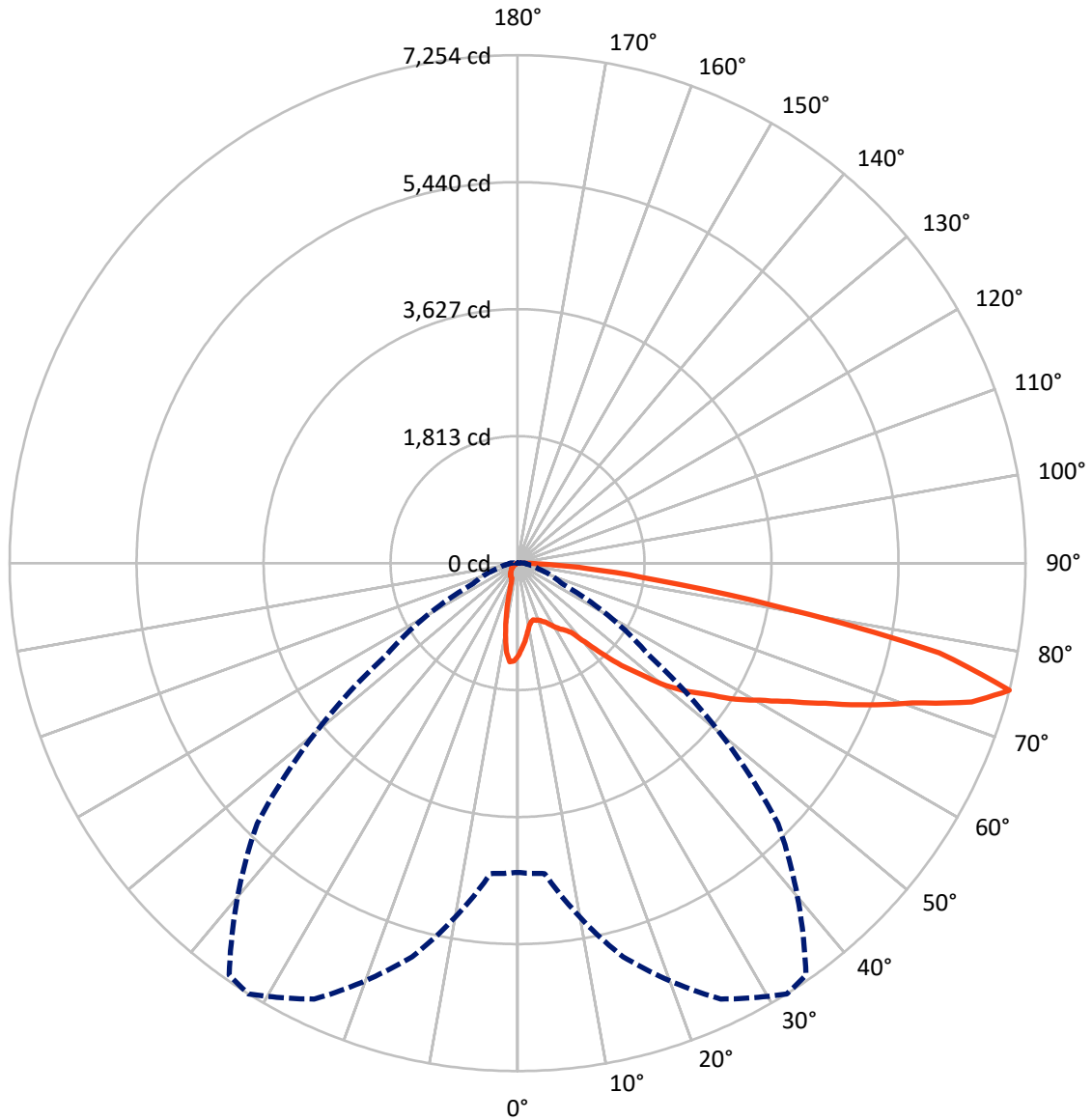
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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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	885.0	0.0	885.0
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7306.7	0.0	7306.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	8191.7	0.0	8191.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.4
10°-20°	263.9	3.2
20°-30°	395.1	4.8
30°-40°	606.5	7.4
40°-50°	1060.7	12.9
50°-60°	1657.9	20.2
60°-70°	2143.4	26.2
70°-80°	1745.8	21.3
80°-90°	202.1	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°	8191.7	100.0
0°-180°	8191.7	100.0



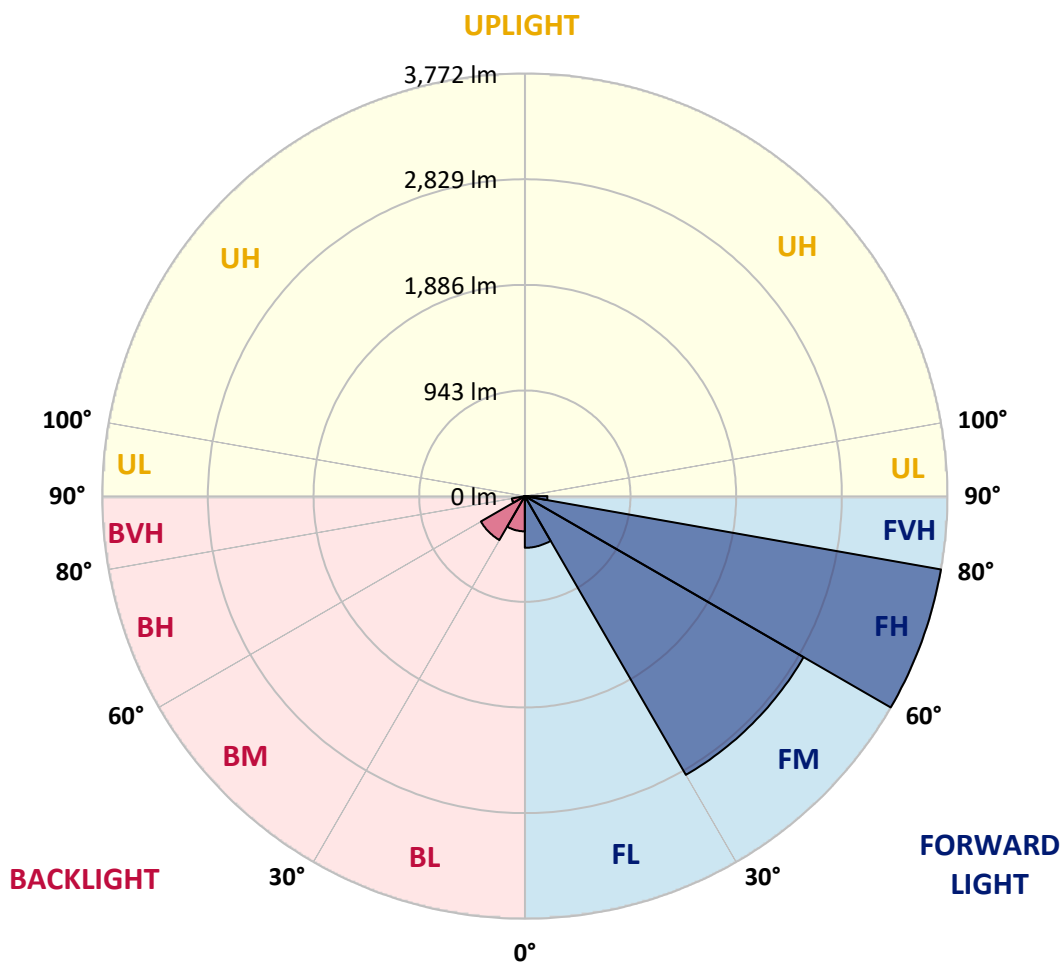
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.9	5.6			
FM (30°-60°)	2872.3	35.1			
FH (60°-80°)	3771.5	46.0			G2/5000
FVH (80°-90°)	201.9	2.5			G2/225
BL (0°-30°)	314.4	3.8	B1/500		
BM (30°-60°)	452.8	5.5	B1/1000		
BH (60°-80°)	117.7	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1186.2	1203.0	1200.9	1211.4	1213.5	1219.8	1234.5	1234.5	1276.5	1305.9	1324.8
5°	1079.1	1068.7	1072.9	1085.4	1116.9	1114.8	1150.5	1169.4	1219.8	1261.8	1305.9
7.5°	946.9	944.8	953.2	982.6	1005.7	1024.6	1062.4	1110.6	1177.8	1240.8	1318.5
10°	862.9	858.7	875.5	883.9	911.2	923.8	982.6	1058.2	1137.9	1228.2	1318.5
12.5°	844.0	829.3	837.7	835.6	860.8	867.1	923.8	1016.2	1112.7	1224.0	1335.3
15°	854.5	844.0	835.6	835.6	841.9	846.1	907.0	988.9	1098.0	1230.3	1373.1
17.5°	888.1	881.8	856.6	831.4	858.7	858.7	896.5	982.6	1100.1	1249.2	1419.3
20°	928.0	921.7	877.6	848.2	867.1	888.1	928.0	997.3	1106.4	1263.9	1490.7
22.5°	972.1	972.1	911.2	877.6	902.8	904.9	976.3	1043.5	1131.6	1301.7	1536.8
25°	1026.7	1022.5	963.7	925.9	934.3	957.4	1022.5	1093.8	1177.8	1354.2	1622.9
27.5°	1098.0	1091.7	1022.5	984.7	995.2	1020.4	1093.8	1165.2	1219.8	1375.2	1696.4
30°	1156.8	1150.5	1093.8	1037.2	1060.3	1083.3	1169.4	1232.4	1272.3	1415.1	1780.4
32.5°	1169.4	1158.9	1121.1	1095.9	1121.1	1165.2	1232.4	1297.5	1358.4	1515.8	1939.9
35°	1314.3	1276.5	1177.8	1137.9	1175.7	1190.4	1301.7	1417.2	1476.0	1595.6	2118.4
37.5°	1591.4	1555.7	1425.6	1314.3	1261.8	1278.6	1423.5	1566.2	1622.9	1744.7	2313.7
40°	1931.5	1872.8	1734.2	1585.1	1478.1	1457.1	1551.5	1761.5	1816.1	1931.5	2569.8
42.5°	2320.0	2263.3	2049.1	1872.8	1763.6	1736.3	1751.0	1988.2	2034.4	2103.7	2737.8
45°	2599.2	2569.8	2328.4	2170.9	2084.8	2055.4	2019.7	2236.0	2294.8	2317.9	2981.3
47.5°	2760.9	2739.9	2605.5	2498.4	2382.9	2351.5	2374.5	2580.3	2540.4	2559.3	3214.4
50°	2977.1	2922.5	2739.9	2773.5	2750.4	2742.0	2781.9	2872.1	2813.3	2758.8	3468.4
52.5°	3151.4	3054.8	2926.7	3008.6	3044.3	3075.8	3216.5	3283.6	3021.2	2937.2	3632.2
55°	3258.4	3166.1	3199.7	3275.2	3313.0	3457.9	3623.8	3573.4	3157.7	3080.0	3850.5
57.5°	3355.0	3361.3	3451.6	3474.7	3667.8	3693.0	4012.2	3848.4	3254.2	3210.2	3936.6
60°	3588.1	3565.0	3638.5	3787.5	3972.3	4112.9	4417.4	4033.2	3302.5	3277.3	3913.5
62.5°	4008.0	3865.2	3890.4	4079.3	4350.2	4503.5	4650.4	4117.1	3289.9	3287.8	3844.2
65°	4541.2	4377.5	4301.9	4478.3	4828.9	5045.1	4912.9	4211.6	3206.0	3264.7	3586.0
67.5°	4984.2	4986.3	4845.7	4944.3	5402.0	5448.2	5160.6	4192.7	3065.3	3082.1	2956.1
70°	5494.4	5563.7	5439.8	5748.5	5977.3	6006.7	5444.0	4037.4	2763.0	2324.2	1698.5
72.5°	5624.6	5660.3	6046.6	6521.1	6779.3	6787.7	5723.3	3518.8	1818.2	1026.7	527.0
75°	4417.4	4451.0	5819.8	6869.6	7253.8	7180.3	5257.2	2284.3	707.5	300.2	126.0
77.5°	2464.8	2475.3	3613.3	5553.2	6153.7	5857.6	3682.5	890.2	285.5	172.2	58.8
80°	673.9	791.5	1339.5	2737.8	3758.1	3688.8	1753.1	289.7	184.8	134.4	27.3
82.5°	161.7	174.3	430.4	1211.4	1986.1	2072.2	522.8	147.0	128.1	111.3	14.7
85°	58.8	65.1	132.3	590.0	1020.4	936.4	157.5	73.5	94.5	86.1	6.3
87.5°	21.0	21.0	42.0	193.2	298.1	224.6	52.5	25.2	48.3	52.5	2.1
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°	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1326.9	1326.9	1356.3	1381.5	1389.9	1400.4	1389.9	1413.0	1410.9	1400.4	1404.6
5°	1329.0	1366.8	1392.0	1408.8	1417.2	1415.1	1419.3	1394.1	1379.4	1368.9	1358.4
7.5°	1339.5	1375.2	1421.4	1417.2	1394.1	1345.8	1308.0	1240.8	1175.7	1173.6	1163.1
10°	1375.2	1406.7	1434.0	1417.2	1333.2	1186.2	1066.6	976.3	894.4	856.6	860.8
12.5°	1400.4	1459.2	1446.6	1360.5	1186.2	993.1	816.7	684.4	611.0	541.7	541.7
15°	1452.9	1473.9	1469.7	1278.6	1005.7	774.7	560.6	426.2	348.5	317.0	312.8
17.5°	1503.2	1526.3	1455.0	1154.7	827.2	520.7	340.1	264.5	254.0	249.8	251.9
20°	1566.2	1568.3	1442.4	1030.9	621.5	329.6	243.5	237.2	239.3	237.2	237.2
22.5°	1633.4	1648.1	1398.3	856.6	413.6	239.3	226.7	228.8	228.8	228.8	235.1
25°	1721.6	1698.5	1329.0	690.7	270.8	220.4	220.4	222.5	222.5	222.5	224.6
27.5°	1780.4	1748.9	1240.8	497.6	212.1	207.9	212.1	212.1	216.2	216.2	216.2
30°	1902.2	1820.3	1129.5	321.2	191.1	197.4	201.6	205.8	207.9	212.1	214.2
32.5°	1996.6	1883.3	991.0	214.2	174.3	178.5	189.0	197.4	205.8	203.7	203.7
35°	2168.8	1986.1	862.9	170.1	159.6	159.6	170.1	184.8	197.4	201.6	201.6
37.5°	2366.1	2070.1	684.4	155.4	147.0	147.0	153.3	170.1	186.9	195.3	191.1
40°	2529.9	2166.7	506.0	144.9	136.5	136.5	140.7	153.3	172.2	186.9	189.0
42.5°	2645.4	2238.1	342.2	134.4	128.1	126.0	132.3	138.6	153.3	174.3	178.5
45°	2750.4	2275.9	212.1	123.9	119.7	119.7	119.7	126.0	136.5	155.4	159.6
47.5°	2937.2	2317.9	153.3	115.5	109.2	111.3	113.4	115.5	123.9	128.1	130.2
50°	3094.7	2349.4	126.0	107.1	102.9	105.0	105.0	105.0	109.2	102.9	102.9
52.5°	3214.4	2317.9	107.1	98.7	94.5	96.6	94.5	94.5	90.3	81.9	81.9
55°	3302.5	2261.2	86.1	90.3	90.3	90.3	86.1	79.8	71.4	65.1	65.1
57.5°	3325.6	2164.6	67.2	75.6	81.9	81.9	73.5	65.1	54.6	48.3	46.2
60°	3289.9	1954.6	50.4	54.6	63.0	65.1	58.8	48.3	37.8	31.5	31.5
62.5°	3161.9	1788.8	39.9	35.7	46.2	48.3	42.0	31.5	21.0	14.7	12.6
65°	2918.3	1532.6	29.4	25.2	31.5	33.6	27.3	14.7	6.3	2.1	0.0
67.5°	2341.0	1154.7	18.9	16.8	21.0	21.0	12.6	4.2	0.0	0.0	0.0
70°	1295.4	648.7	12.6	8.4	10.5	6.3	2.1	0.0	0.0	0.0	0.0
72.5°	373.7	184.8	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	100.8	44.1	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.1	16.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)