

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: P676494

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676494
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-840-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

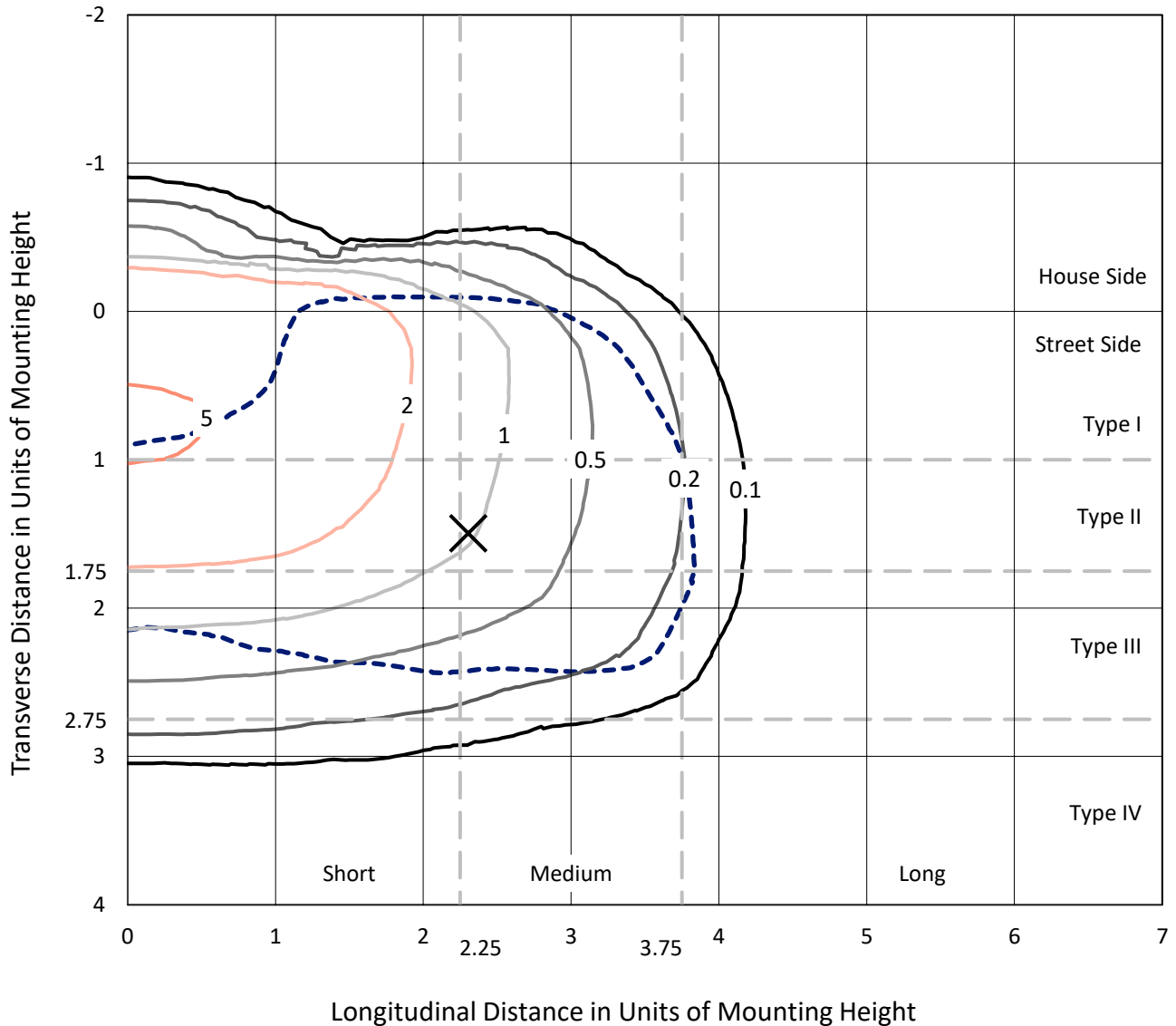
Lumens per Lamp: N/A
Luminaire Lumens: 8398.3 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

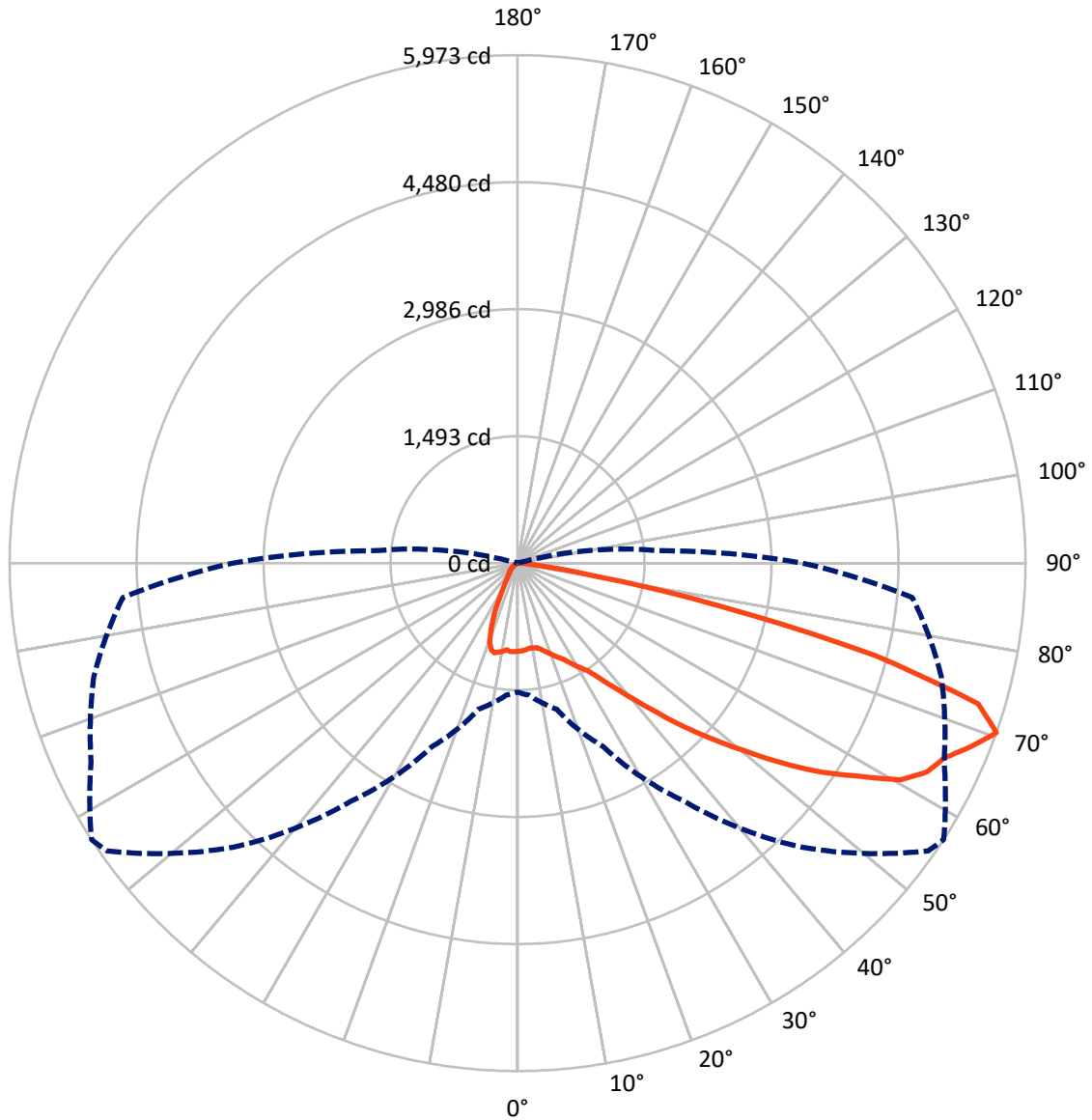
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type 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	989.9	0.0	989.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7408.4	0.0	7408.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	8398.3	0.0	8398.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.2
10°-20°	270.7	3.2
20°-30°	456.1	5.4
30°-40°	780.5	9.3
40°-50°	1310.6	15.6
50°-60°	2011.7	24.0
60°-70°	2322.6	27.7
70°-80°	1097.1	13.1
80°-90°	52.1	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°	8398.3	100.0
0°-180°	8398.3	100.0



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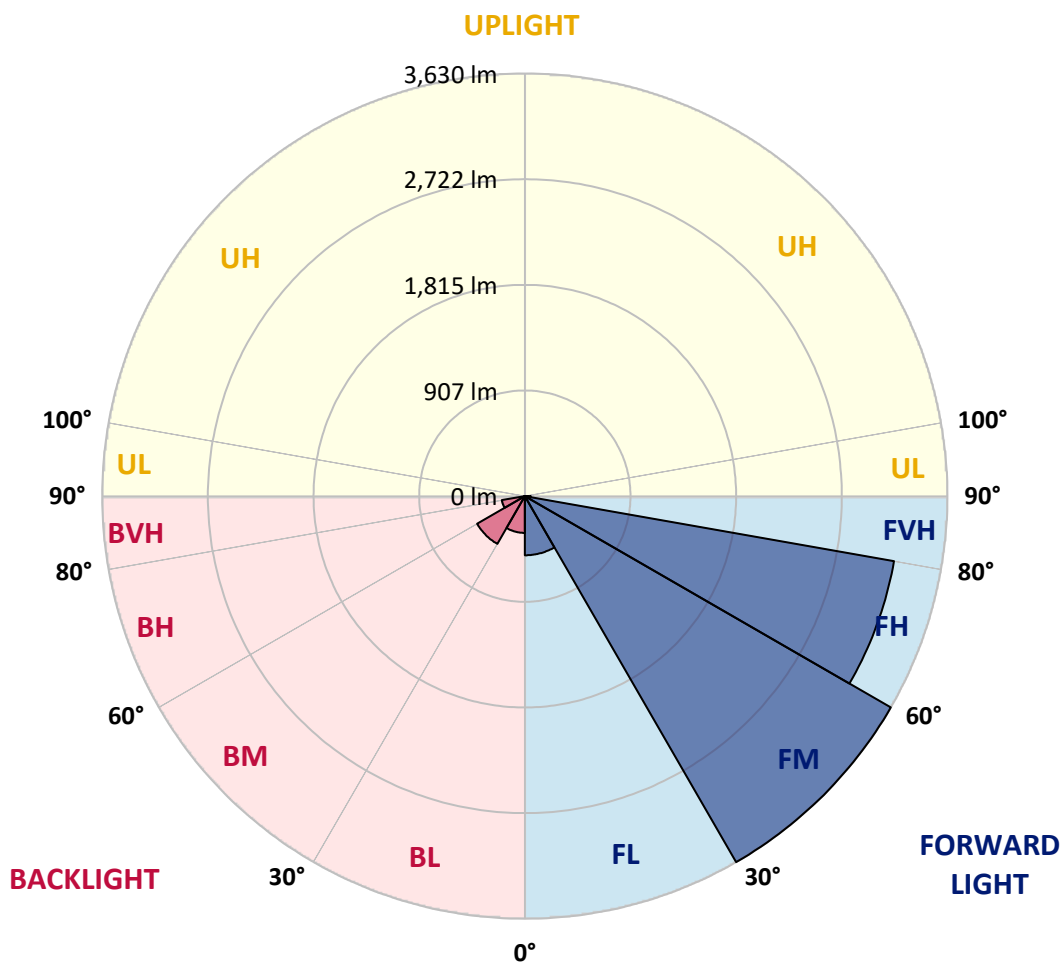
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.1	6.0			
FM (30°-60°)	3629.6	43.2			
FH (60°-80°)	3219.6	38.3			G2/5000
FVH (80°-90°)	51.1	0.6			G1/100
BL (0°-30°)	315.6	3.8	B1/500		
BM (30°-60°)	473.2	5.6	B1/1000		
BH (60°-80°)	200.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1021.2	1014.8	1021.2	1029.8	1021.2	1027.7	1025.5	1032.0	1023.4	1023.4	1029.8
5°	954.7	965.4	969.7	980.5	991.2	1010.5	1023.4	1023.4	1036.2	1042.7	1051.3
7.5°	931.1	914.0	931.1	939.7	950.4	982.6	1001.9	1010.5	1027.7	1051.3	1064.1
10°	896.8	909.7	909.7	937.6	952.6	971.9	1006.2	1012.6	1051.3	1074.9	1087.7
12.5°	894.6	894.6	905.4	924.7	954.7	991.2	1034.1	1021.2	1062.0	1104.9	1126.3
15°	901.1	916.1	916.1	941.8	965.4	1016.9	1053.4	1055.5	1113.5	1156.4	1175.7
17.5°	929.0	922.5	931.1	946.1	982.6	1032.0	1092.0	1098.5	1165.0	1222.9	1250.8
20°	986.9	997.6	984.8	976.2	991.2	1055.5	1132.8	1145.7	1220.7	1276.5	1304.4
22.5°	1203.6	1195.0	1143.5	1083.4	1057.7	1087.7	1171.4	1201.4	1289.4	1355.9	1379.5
25°	1448.2	1433.1	1373.1	1283.0	1165.0	1152.1	1248.6	1248.6	1375.2	1448.2	1441.7
27.5°	1679.9	1675.6	1604.8	1510.4	1343.0	1250.8	1310.9	1334.5	1471.8	1531.8	1503.9
30°	1915.9	1920.2	1855.8	1742.1	1566.2	1409.5	1398.8	1418.1	1544.7	1639.1	1581.2
32.5°	2190.5	2151.9	2106.8	1950.2	1789.3	1613.4	1512.5	1503.9	1626.2	1712.1	1634.8
35°	2435.1	2411.5	2362.1	2220.5	2036.0	1825.8	1684.2	1662.7	1729.2	1842.9	1759.2
37.5°	2649.6	2626.0	2561.6	2467.2	2323.5	2089.6	1890.1	1857.9	1885.8	2006.0	1905.1
40°	2834.1	2840.5	2823.4	2731.1	2598.1	2385.7	2156.2	2104.7	2081.1	2188.3	2074.6
42.5°	2967.1	3029.3	3033.6	2919.9	2812.7	2696.8	2439.4	2398.6	2342.8	2432.9	2353.5
45°	3246.0	3211.7	3233.2	3192.4	3074.4	3057.2	2765.5	2741.9	2664.6	2694.7	2611.0
47.5°	3464.9	3458.4	3499.2	3432.7	3400.5	3402.6	3136.6	3095.9	2986.4	3042.2	2947.8
50°	3591.4	3557.1	3705.2	3756.6	3750.2	3776.0	3512.1	3477.7	3372.6	3454.1	3252.5
52.5°	3621.5	3683.7	3823.2	4009.8	4089.2	4142.8	3921.8	3909.0	3795.3	3846.8	3567.8
55°	3696.6	3756.6	3838.2	4145.0	4438.9	4451.8	4325.2	4338.1	4237.2	4224.3	3868.2
57.5°	3694.4	3681.6	3906.8	4263.0	4670.6	4855.1	4786.4	4724.2	4614.8	4488.2	4061.3
60°	3559.3	3552.8	3786.7	4278.0	4797.2	5219.8	5247.7	5174.8	4900.2	4713.5	4288.7
62.5°	3291.1	3316.8	3552.8	4149.3	4917.3	5350.7	5453.7	5404.3	5063.2	4863.7	4556.9
65°	2984.3	2930.7	3205.3	3827.4	4647.0	5312.1	5535.2	5518.0	5256.3	5026.7	4803.6
67.5°	2394.3	2417.9	2628.1	3293.2	4185.7	5170.5	5726.1	5751.9	5410.8	5170.5	4878.7
70°	1516.8	1559.7	1778.6	2379.3	3417.7	4724.2	5897.8	5972.9	5533.1	5157.6	4659.9
72.5°	442.0	459.1	757.3	1186.4	2177.6	3788.8	5623.2	5661.8	5294.9	4681.3	3604.3
75°	145.9	154.5	223.1	386.2	853.9	1958.8	4153.5	4335.9	4213.6	3394.1	2061.8
77.5°	96.5	100.8	122.3	184.5	324.0	613.6	2227.0	2422.2	2375.0	1589.8	665.1
80°	70.8	72.9	90.1	124.4	197.4	221.0	821.7	950.4	918.2	364.7	133.0
82.5°	45.1	45.1	66.5	88.0	124.4	109.4	238.1	263.9	257.5	139.5	51.5
85°	30.0	32.2	49.3	68.7	68.7	51.5	68.7	79.4	85.8	75.1	23.6
87.5°	8.6	10.7	27.9	47.2	27.9	25.7	23.6	25.7	30.0	40.8	12.9
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°	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1036.2	1044.8	1042.7	1047.0	1040.5	1034.1	1040.5	1040.5	1040.5	1034.1	1029.8
5°	1044.8	1040.5	1044.8	1036.2	1044.8	1036.2	1032.0	1019.1	1016.9	1016.9	1025.5
7.5°	1057.7	1062.0	1042.7	1042.7	1023.4	1027.7	1016.9	1019.1	1014.8	1008.4	1004.1
10°	1077.0	1094.2	1074.9	1068.4	1047.0	1029.8	1004.1	991.2	991.2	982.6	991.2
12.5°	1130.6	1124.2	1113.5	1092.0	1066.3	1032.0	969.7	907.5	856.0	817.4	836.7
15°	1173.5	1171.4	1156.4	1115.6	1081.3	976.2	819.6	658.6	572.8	534.2	527.8
17.5°	1240.1	1233.6	1207.9	1154.2	1040.5	808.8	562.1	426.9	343.3	324.0	317.5
20°	1302.3	1300.1	1244.3	1175.7	937.6	590.0	366.9	281.1	257.5	259.6	255.3
22.5°	1368.8	1358.1	1291.5	1149.9	746.6	392.6	261.7	251.0	242.4	240.3	244.6
25°	1443.9	1405.3	1338.7	1092.0	549.2	270.3	246.7	238.1	229.6	227.4	227.4
27.5°	1473.9	1448.2	1360.2	952.6	347.6	236.0	231.7	221.0	210.3	203.8	201.7
30°	1542.6	1499.7	1381.7	748.8	246.7	216.7	210.3	197.4	182.4	171.6	171.6
32.5°	1611.2	1559.7	1383.8	523.5	206.0	195.2	184.5	167.3	148.0	137.3	139.5
35°	1697.0	1626.2	1360.2	339.0	184.5	171.6	150.2	130.9	113.7	105.1	105.1
37.5°	1842.9	1776.4	1263.7	223.1	167.3	145.9	124.4	103.0	88.0	81.5	81.5
40°	2027.4	1941.6	1130.6	175.9	148.0	124.4	98.7	79.4	70.8	64.4	64.4
42.5°	2248.4	2141.1	933.3	156.6	130.9	103.0	77.2	62.2	53.6	53.6	51.5
45°	2469.4	2293.5	731.6	143.7	115.9	85.8	60.1	49.3	45.1	42.9	42.9
47.5°	2784.8	2478.0	523.5	130.9	100.8	66.5	49.3	40.8	36.5	34.3	36.5
50°	3087.3	2651.7	371.2	118.0	83.7	53.6	40.8	36.5	32.2	30.0	30.0
52.5°	3353.3	2771.9	259.6	103.0	70.8	45.1	36.5	32.2	30.0	27.9	27.9
55°	3499.2	2731.1	178.1	88.0	57.9	38.6	32.2	27.9	25.7	23.6	23.6
57.5°	3649.4	2617.4	135.2	72.9	47.2	36.5	30.0	25.7	23.6	21.5	21.5
60°	3776.0	2533.7	105.1	57.9	38.6	30.0	25.7	21.5	19.3	17.2	15.0
62.5°	3782.4	2366.4	77.2	42.9	30.0	25.7	21.5	17.2	10.7	8.6	6.4
65°	3808.1	2190.5	55.8	32.2	21.5	19.3	15.0	8.6	4.3	0.0	0.0
67.5°	3718.0	1982.4	45.1	23.6	15.0	10.7	6.4	2.1	0.0	0.0	0.0
70°	3351.2	1673.4	34.3	17.2	10.7	6.4	2.1	0.0	0.0	0.0	0.0
72.5°	2398.6	1087.7	23.6	12.9	4.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	1278.7	463.4	17.2	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	401.2	118.0	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.0	32.2	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	2.1	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)