

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: P675332

Luminaire Tested: **CCW-SA-1A-840-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675332
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2353.1 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

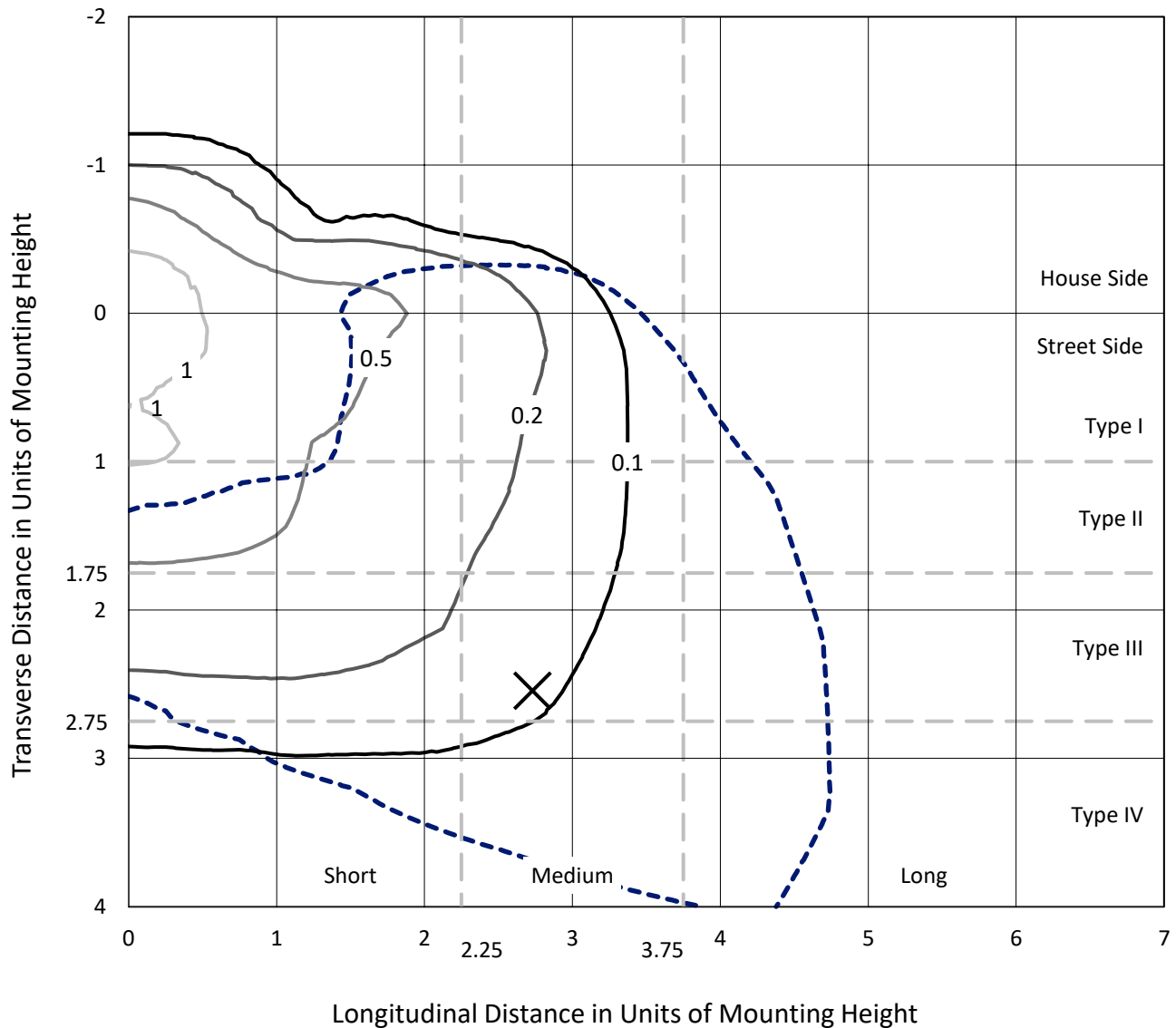
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

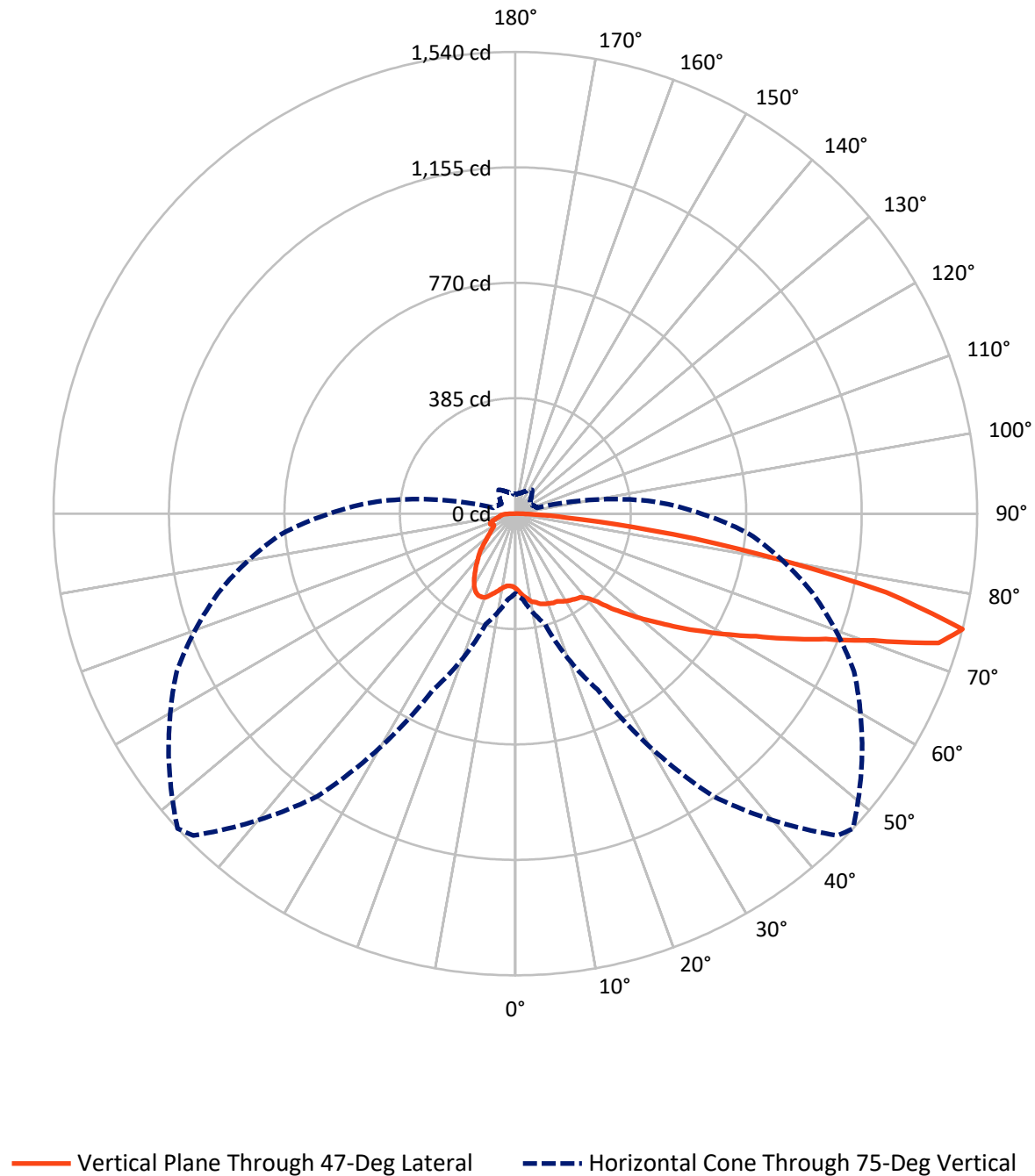
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.8	0.0	562.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1790.4	0.0	1790.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	2353.1	0.0	2353.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	1.1
10°-20°	83.9	3.6
20°-30°	143.7	6.1
30°-40°	201.0	8.5
40°-50°	280.3	11.9
50°-60°	418.9	17.8
60°-70°	604.0	25.7
70°-80°	514.2	21.8
80°-90°	81.9	3.5
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°	2353.1	100.0
0°-180°	2353.1	100.0

Coefficient of Utilization



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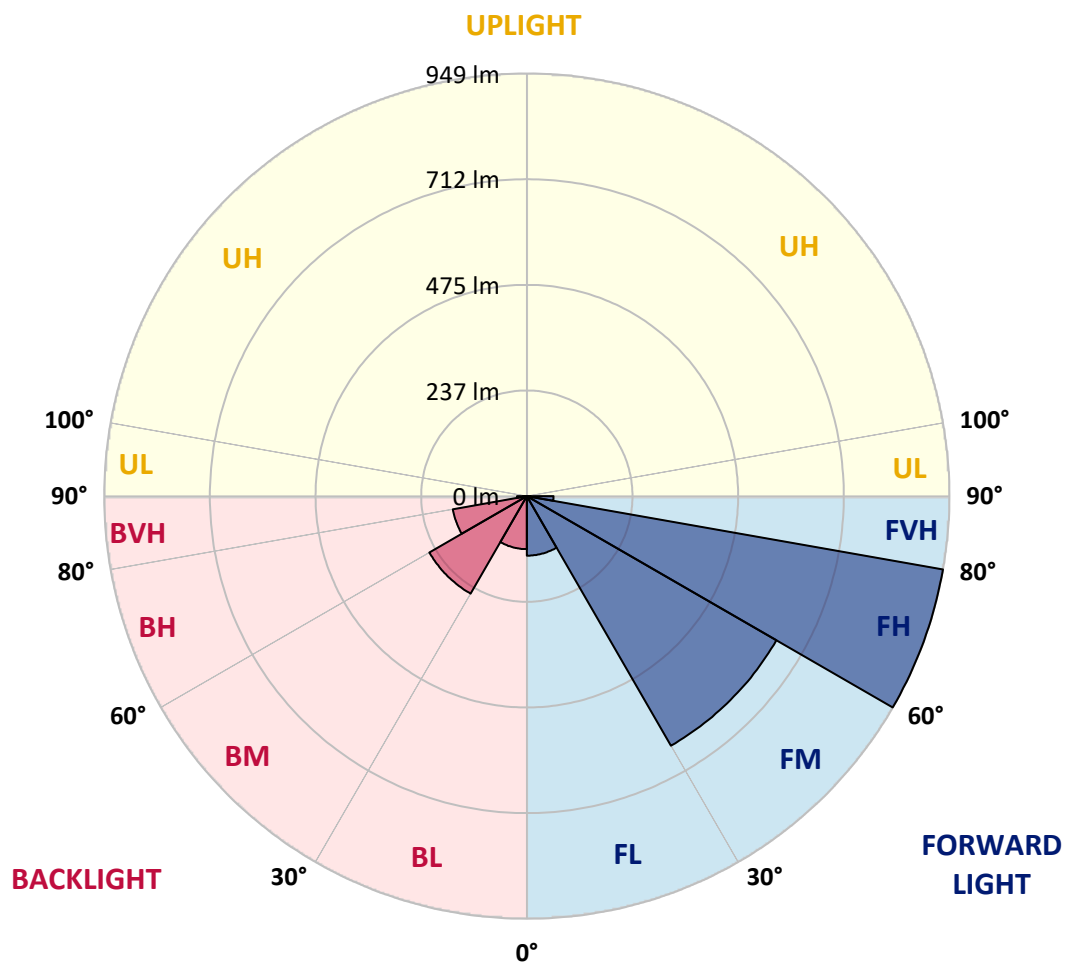
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.7	5.7			
FM	(30°-60°)	647.3	27.5			
FH	(60°-80°)	949.4	40.3			G1/1800
FVH	(80°-90°)	60.0	2.6			G1/100
BL	(0°-30°)	119.1	5.1	B1/500		
BM	(30°-60°)	252.9	10.7	B1/1000		
BH	(60°-80°)	168.8	7.2	B1/500		G1/500
BVH	(80°-90°)	21.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9
2.5°	267.9	268.7	268.7	267.0	265.3	261.9	261.9	258.4	256.7	252.4	250.7
5°	292.8	290.2	287.6	286.8	282.5	276.5	275.6	272.2	262.7	258.4	252.4
7.5°	310.8	310.0	309.1	305.7	297.9	288.5	285.9	280.8	271.3	262.7	255.9
10°	325.4	328.8	325.4	317.7	310.0	299.7	298.8	289.3	280.8	270.5	261.9
12.5°	341.7	342.6	336.6	327.1	315.1	306.5	303.1	299.7	290.2	281.6	268.7
15°	352.9	351.2	346.9	334.0	320.3	311.7	312.5	308.2	297.9	291.9	278.2
17.5°	352.9	352.9	346.0	336.6	324.6	316.8	316.8	314.2	307.4	298.8	289.3
20°	346.0	346.0	341.7	336.6	322.8	321.1	319.4	317.7	317.7	310.0	296.2
22.5°	337.4	335.7	337.4	328.8	319.4	321.1	323.7	322.8	320.3	313.4	303.9
25°	328.8	329.7	331.4	325.4	316.8	324.6	323.7	328.0	326.3	321.1	313.4
27.5°	328.0	329.7	330.6	324.6	321.1	328.0	331.4	335.7	336.6	331.4	322.0
30°	340.9	340.0	339.1	331.4	328.8	334.9	338.3	344.3	349.5	338.3	330.6
32.5°	374.4	369.2	364.0	343.4	335.7	340.0	343.4	352.0	352.9	346.9	335.7
35°	427.6	424.1	407.0	370.9	349.5	345.2	348.6	354.6	356.3	352.0	343.4
37.5°	488.5	486.8	462.8	419.0	377.8	357.2	353.7	362.3	369.2	359.8	347.7
40°	548.6	541.8	524.6	481.7	413.8	375.2	370.9	375.2	377.8	370.9	363.2
42.5°	602.7	595.0	590.7	547.8	461.1	405.3	401.8	391.5	399.3	390.7	380.4
45°	648.2	646.5	644.8	607.9	515.2	454.2	451.6	425.0	433.6	426.7	412.1
47.5°	680.9	688.6	686.0	665.4	577.0	506.6	498.8	464.5	477.4	470.5	455.9
50°	719.5	723.8	721.2	707.5	634.5	566.7	552.1	516.9	531.5	530.6	522.9
52.5°	753.9	766.7	752.1	751.3	716.9	631.9	607.0	573.5	597.6	607.0	606.2
55°	794.2	804.5	800.2	798.5	790.8	695.5	673.1	632.8	673.1	686.9	698.9
57.5°	828.6	827.7	844.0	863.8	873.2	768.4	741.8	694.6	755.6	771.0	804.5
60°	844.0	858.6	886.1	935.9	962.5	846.6	819.1	781.3	838.9	850.9	912.7
62.5°	854.3	867.2	920.4	1004.6	1020.0	926.4	900.7	862.9	929.9	938.5	1030.3
65°	826.0	838.0	943.6	1030.3	1085.3	1012.3	1006.3	966.8	1020.9	1026.0	1154.0
67.5°	793.3	806.2	923.9	1063.0	1172.0	1126.5	1117.0	1069.8	1111.0	1105.0	1248.4
70°	735.8	753.0	873.2	1091.3	1268.2	1286.2	1267.3	1200.3	1204.6	1148.0	1252.7
72.5°	560.7	571.8	683.4	978.8	1312.8	1507.7	1475.1	1341.1	1292.2	1156.5	1105.9
75°	266.2	286.8	381.2	647.4	1150.5	1518.0	1539.5	1410.7	1245.8	1026.0	783.9
77.5°	77.3	77.3	115.9	274.8	721.2	1223.5	1263.9	1197.8	1027.7	759.9	412.1
80°	42.1	44.6	61.0	97.0	316.8	771.9	830.3	794.2	605.3	300.5	106.5
82.5°	24.0	24.9	40.4	58.4	144.2	419.9	454.2	412.1	230.1	91.0	49.8
85°	13.7	14.6	23.2	38.6	85.9	154.5	168.3	146.0	92.7	61.0	24.9
87.5°	6.9	6.9	11.2	18.0	43.8	43.8	42.9	52.4	55.8	36.9	11.2
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°	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9
2.5°	249.9	249.0	249.0	245.6	244.7	242.1	242.1	240.4	239.6	242.1	242.1
5°	250.7	246.4	245.6	242.1	243.0	241.3	244.7	243.0	242.1	242.1	241.3
7.5°	252.4	248.1	244.7	242.1	241.3	243.8	248.1	248.1	253.3	250.7	250.7
10°	256.7	254.1	249.9	248.1	248.1	250.7	255.9	259.3	263.6	263.6	261.0
12.5°	267.0	262.7	257.6	255.0	258.4	261.0	266.2	269.6	274.8	276.5	274.8
15°	274.8	270.5	268.7	267.0	269.6	273.0	277.3	280.8	286.8	288.5	287.6
17.5°	285.1	279.9	279.0	279.9	281.6	284.2	286.8	289.3	293.6	293.6	293.6
20°	290.2	288.5	287.6	290.2	293.6	297.1	295.4	293.6	292.8	294.5	293.6
22.5°	299.7	297.9	298.8	301.4	301.4	299.7	297.1	291.1	289.3	291.1	289.3
25°	308.2	306.5	306.5	304.8	303.9	297.9	292.8	287.6	281.6	284.2	283.3
27.5°	316.8	316.0	316.0	309.1	300.5	290.2	283.3	277.3	273.9	278.2	275.6
30°	327.1	328.0	323.7	307.4	286.8	275.6	267.9	267.0	266.2	268.7	267.9
32.5°	336.6	337.4	330.6	304.8	276.5	255.0	247.3	248.1	252.4	256.7	261.0
35°	341.7	346.0	337.4	296.2	255.9	231.8	223.2	231.0	238.7	244.7	249.0
37.5°	351.2	362.3	347.7	286.8	237.8	211.2	205.2	207.8	217.2	226.7	231.0
40°	364.9	377.8	350.3	268.7	213.8	190.6	187.2	188.0	191.5	197.5	201.8
42.5°	388.9	402.7	352.9	245.6	189.8	177.7	168.3	165.7	163.1	163.1	162.3
45°	424.1	437.0	349.5	216.4	165.7	157.1	150.3	144.2	137.4	126.2	127.9
47.5°	475.7	486.0	352.0	190.6	143.4	136.5	131.4	124.5	114.2	102.2	101.3
50°	553.8	538.3	348.6	164.0	127.1	121.1	116.8	107.3	95.3	86.7	85.9
52.5°	644.8	613.9	345.2	141.7	113.3	108.2	104.7	94.4	83.3	79.0	78.1
55°	754.7	710.1	350.3	121.9	103.0	98.7	95.3	85.9	77.3	73.8	73.0
57.5°	884.4	814.0	378.6	106.5	91.9	90.2	89.3	81.6	73.8	71.3	70.4
60°	1006.3	913.6	397.5	95.3	81.6	83.3	85.0	81.6	73.0	71.3	71.3
62.5°	1108.5	996.0	367.5	85.9	76.4	81.6	89.3	86.7	83.3	85.0	83.3
65°	1198.6	1024.3	274.8	80.7	73.8	85.9	98.7	97.9	90.2	91.9	91.0
67.5°	1214.1	990.0	179.4	76.4	72.1	94.4	110.8	100.5	85.0	85.0	82.4
70°	1149.7	898.1	120.2	72.1	71.3	94.4	113.3	94.4	79.9	79.9	76.4
72.5°	943.6	717.8	92.7	67.8	65.3	84.1	107.3	89.3	74.7	73.0	67.0
75°	619.9	462.8	75.6	64.4	56.7	73.8	97.0	82.4	71.3	66.1	63.5
77.5°	303.9	207.8	63.5	56.7	48.9	64.4	88.4	78.1	67.0	61.8	60.1
80°	83.3	74.7	53.2	49.8	41.2	55.8	83.3	74.7	62.7	57.5	55.0
82.5°	47.2	46.4	42.9	40.4	34.3	55.8	84.1	74.7	59.2	58.4	49.8
85°	25.8	27.5	30.9	30.1	26.6	49.8	79.9	65.3	48.1	40.4	40.4
87.5°	10.3	12.9	15.5	17.2	18.0	36.9	60.1	49.8	36.9	30.9	30.9
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)