

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: P675677

Luminaire Tested: **CCW-SA-1B-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675677
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

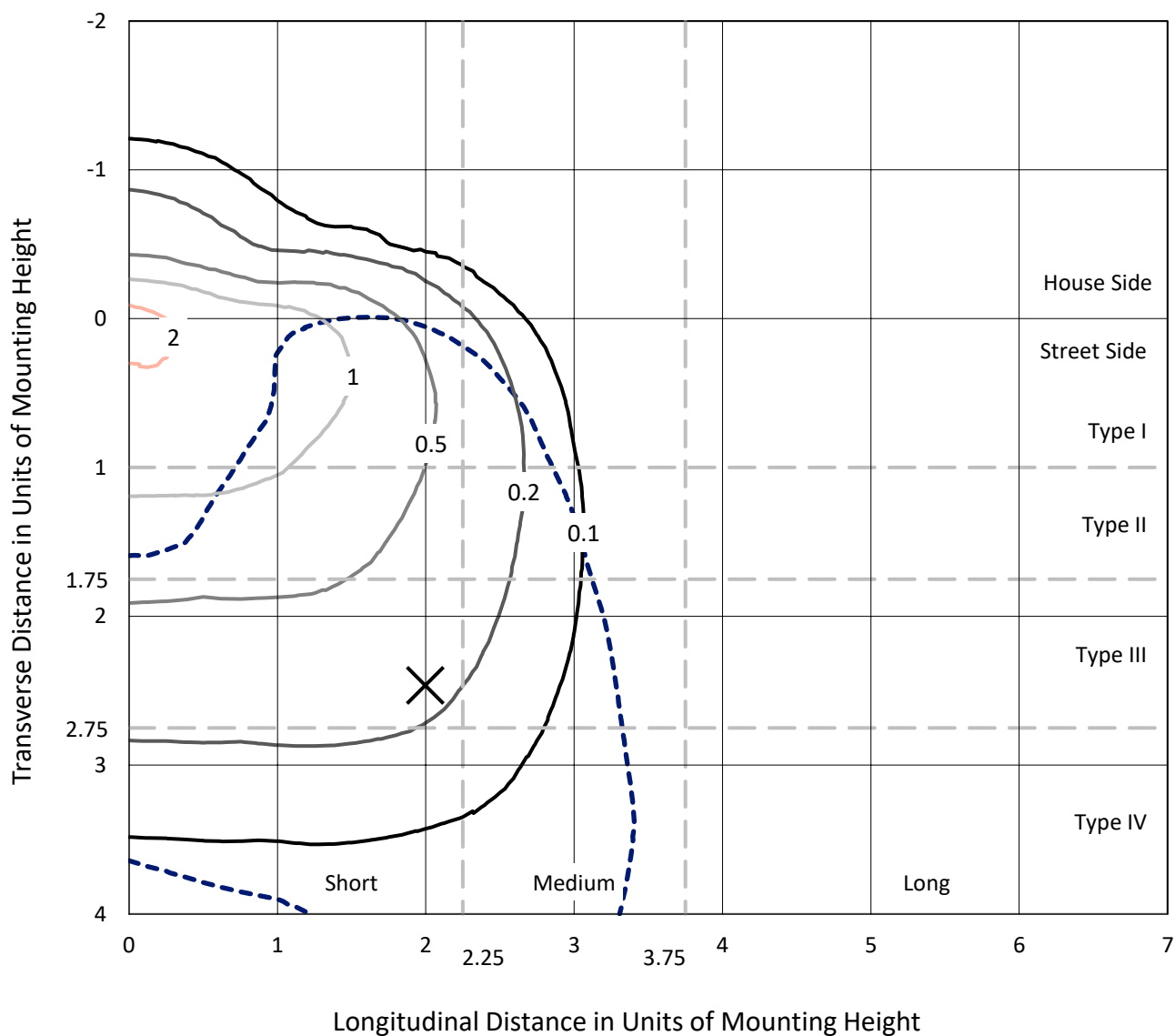
Lumens per Lamp: N/A
Luminaire Lumens: 3081.7 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

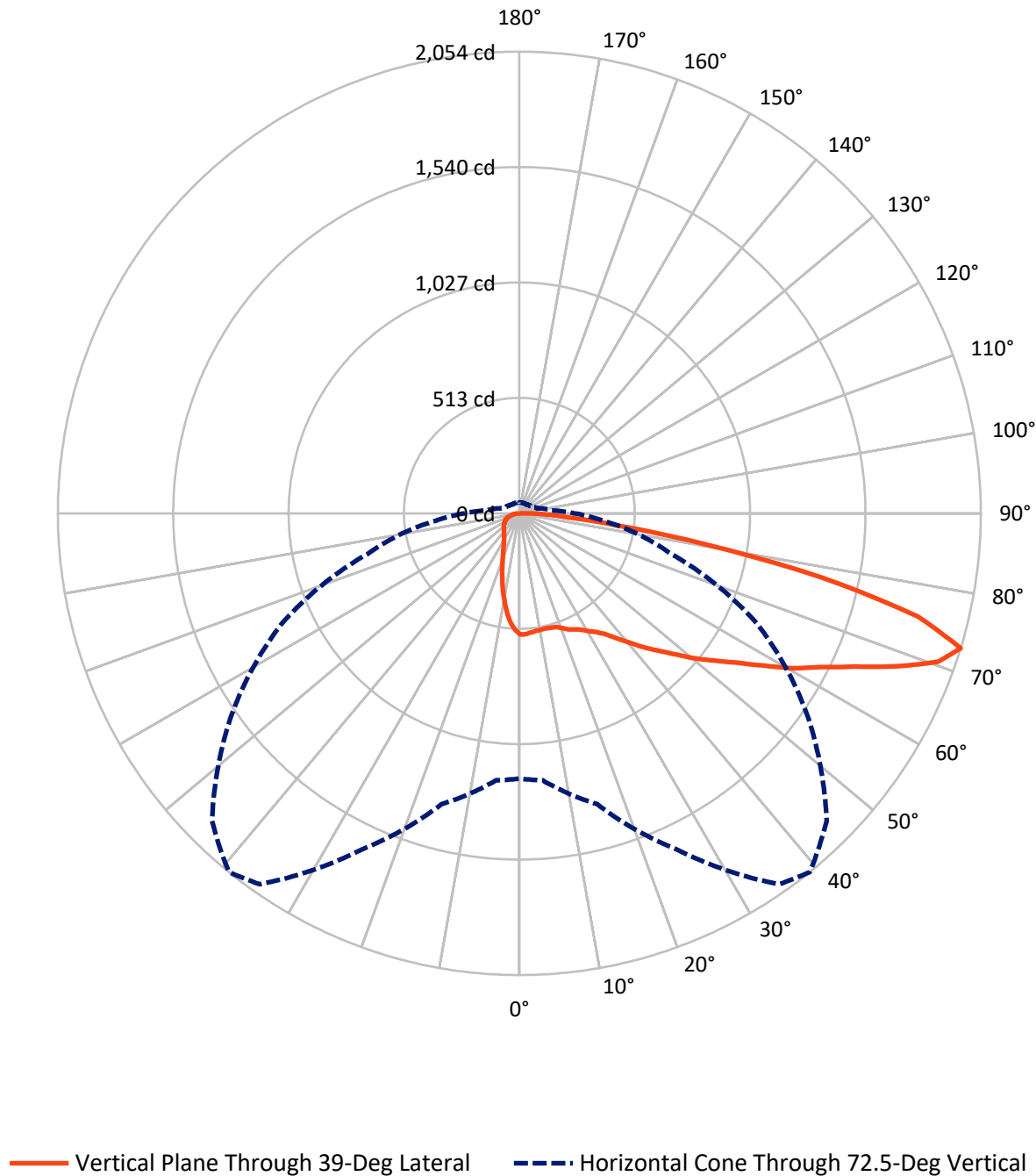
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	458.0	0.0	458.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2623.7	0.0	2623.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	3081.7	0.0	3081.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.5
10°-20°	121.7	3.9
20°-30°	185.3	6.0
30°-40°	271.1	8.8
40°-50°	415.1	13.5
50°-60°	608.8	19.8
60°-70°	776.4	25.2
70°-80°	561.0	18.2
80°-90°	94.6	3.1
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°	3081.7	100.0
0°-180°	3081.7	100.0

Coefficient of Utilization



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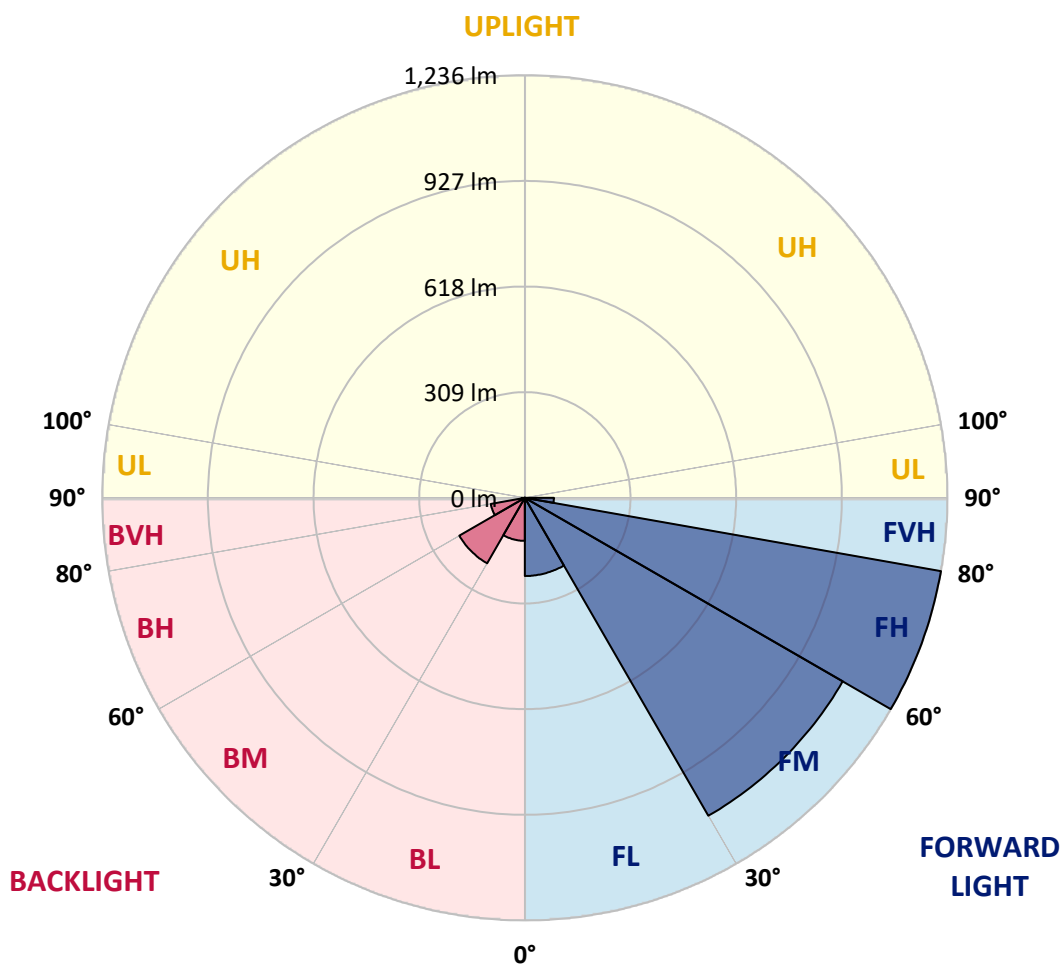
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	7.4			
FM	(30°-60°)	1073.7	34.8			
FH	(60°-80°)	1236.2	40.1			G1/1800
FVH	(80°-90°)	85.0	2.8			G1/100
BL	(0°-30°)	126.0	4.1	B1/500		
BM	(30°-60°)	221.3	7.2	B1/1000		
BH	(60°-80°)	101.2	3.3	B0/110		G0/110
BVH	(80°-90°)	9.6	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4
2.5°	547.5	548.7	546.4	544.1	542.9	538.3	542.9	540.6	538.3	538.3	538.3
5°	540.6	541.7	541.7	539.4	540.6	532.5	531.3	532.5	529.0	526.7	525.5
7.5°	530.2	532.5	537.1	536.0	531.3	527.9	529.0	527.9	522.1	518.6	509.3
10°	522.1	524.4	526.7	529.0	527.9	526.7	525.5	520.9	519.8	511.7	502.4
12.5°	514.0	514.0	515.1	524.4	525.5	525.5	518.6	518.6	515.1	514.0	500.1
15°	505.9	509.3	518.6	520.9	525.5	527.9	524.4	524.4	518.6	510.5	500.1
17.5°	508.2	514.0	523.2	529.0	531.3	531.3	536.0	532.5	524.4	519.8	509.3
20°	519.8	520.9	532.5	542.9	545.2	545.2	540.6	537.1	531.3	523.2	509.3
22.5°	526.7	534.8	548.7	554.5	561.4	561.4	555.6	547.5	539.4	531.3	516.3
25°	556.8	558.0	563.7	573.0	576.5	571.8	566.1	556.8	546.4	538.3	524.4
27.5°	577.6	583.4	590.4	595.0	589.2	585.7	581.1	570.7	562.6	555.6	536.0
30°	615.8	608.9	613.5	615.8	605.4	607.7	595.0	585.7	576.5	576.5	554.5
32.5°	639.0	644.8	640.1	639.0	630.9	629.7	621.6	611.2	605.4	612.4	582.3
35°	679.5	676.0	676.0	674.9	665.6	659.8	659.8	641.3	647.1	662.1	625.1
37.5°	700.3	699.2	706.1	711.9	702.7	706.1	702.7	694.6	696.9	723.5	678.3
40°	721.2	729.3	743.2	745.5	751.3	755.9	753.6	752.4	761.7	804.5	750.1
42.5°	740.9	747.8	768.6	787.2	801.0	816.1	817.3	817.3	847.4	908.7	836.9
45°	766.3	772.1	801.0	838.1	861.2	871.7	880.9	891.3	931.9	1004.8	929.5
47.5°	801.0	805.7	840.4	886.7	931.9	937.6	956.2	967.7	1029.1	1103.2	1024.5
50°	850.8	847.4	875.1	942.3	986.3	1014.0	1040.7	1061.5	1121.7	1202.7	1098.5
52.5°	891.3	891.3	912.2	1001.3	1061.5	1088.1	1115.9	1144.9	1214.3	1302.3	1158.7
55°	960.8	953.9	966.6	1059.2	1146.0	1171.5	1224.7	1249.0	1316.2	1376.4	1209.7
57.5°	1008.3	1011.7	1026.8	1135.6	1245.6	1276.8	1330.1	1347.4	1406.5	1453.9	1246.7
60°	1070.8	1059.2	1091.6	1220.1	1355.5	1399.5	1443.5	1453.9	1497.9	1503.7	1264.1
62.5°	1131.0	1128.6	1156.4	1304.6	1473.6	1504.9	1550.0	1561.6	1580.1	1543.1	1239.8
65°	1168.0	1183.1	1235.1	1397.2	1607.9	1642.6	1687.8	1664.6	1643.8	1508.3	1120.5
67.5°	1218.9	1225.9	1305.8	1497.9	1763.0	1815.1	1854.5	1763.0	1607.9	1366.0	943.4
70°	1230.5	1249.0	1353.2	1603.3	1922.7	1976.0	1978.3	1729.4	1477.1	1111.3	684.1
72.5°	1179.6	1192.3	1339.3	1647.2	2014.2	2053.6	1934.3	1563.9	1170.3	700.3	372.7
75°	992.1	1027.9	1165.7	1511.8	1846.3	1831.3	1639.1	1193.5	702.7	310.2	157.4
77.5°	691.1	692.2	835.8	1099.7	1382.2	1378.7	1169.2	692.2	301.0	125.0	92.6
80°	306.8	328.8	415.6	592.7	839.2	839.2	681.8	343.8	150.5	81.0	63.7
82.5°	180.6	187.5	222.3	276.7	408.6	430.6	326.4	229.2	103.0	50.9	39.4
85°	133.1	144.7	165.5	166.7	193.3	196.8	180.6	199.1	70.6	27.8	32.4
87.5°	99.6	106.5	132.0	110.0	103.0	97.2	111.1	203.7	26.6	13.9	10.4
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°	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4	539.4
2.5°	533.6	533.6	531.3	526.7	526.7	517.4	519.8	522.1	516.3	516.3	517.4
5°	525.5	520.9	515.1	508.2	503.5	490.8	488.5	480.4	479.2	476.9	473.5
7.5°	509.3	502.4	492.0	481.6	466.5	454.9	441.0	429.5	424.8	421.4	420.2
10°	494.3	493.1	475.8	454.9	431.8	409.8	388.9	373.9	364.6	358.9	357.7
12.5°	494.3	485.0	460.7	431.8	398.2	365.8	339.2	318.3	305.6	296.3	292.9
15°	492.0	482.7	450.3	406.3	368.1	324.1	287.1	265.1	246.6	237.3	238.5
17.5°	494.3	480.4	435.3	387.8	334.5	287.1	243.1	216.5	197.9	191.0	189.8
20°	495.4	478.1	423.7	362.3	299.8	246.6	204.9	179.4	165.5	160.9	160.9
22.5°	493.1	471.1	406.3	332.2	269.7	213.0	178.3	156.3	147.0	141.2	143.5
25°	503.5	470.0	390.1	306.8	235.0	185.2	158.6	142.4	136.6	133.1	134.3
27.5°	505.9	470.0	377.4	277.8	204.9	164.4	143.5	133.1	128.5	126.2	125.0
30°	515.1	472.3	362.3	248.9	180.6	148.2	132.0	126.2	122.7	121.5	121.5
32.5°	540.6	479.2	346.1	224.6	159.7	134.3	123.9	119.2	116.9	115.8	116.9
35°	570.7	497.8	328.8	199.1	144.7	125.0	116.9	113.4	112.3	112.3	112.3
37.5°	617.0	525.5	313.7	178.3	132.0	115.8	110.0	108.8	107.7	108.8	108.8
40°	670.2	555.6	299.8	162.1	122.7	110.0	104.2	104.2	103.0	104.2	105.3
42.5°	731.6	592.7	285.9	145.9	114.6	105.3	100.7	99.6	98.4	100.7	101.9
45°	816.1	643.6	276.7	136.6	108.8	100.7	96.1	96.1	94.9	94.9	97.2
47.5°	886.7	692.2	276.7	127.3	105.3	97.2	92.6	92.6	90.3	91.4	91.4
50°	945.7	733.9	282.5	125.0	100.7	93.8	90.3	88.0	86.8	86.8	86.8
52.5°	985.1	759.4	287.1	122.7	98.4	89.1	86.8	85.7	83.3	82.2	83.3
55°	1024.5	776.7	288.2	122.7	94.9	84.5	82.2	82.2	79.9	78.7	78.7
57.5°	1039.5	769.8	272.0	120.4	92.6	81.0	78.7	77.6	76.4	75.2	75.2
60°	1032.6	744.3	236.1	114.6	90.3	78.7	74.1	74.1	74.1	71.8	72.9
62.5°	985.1	657.5	189.8	105.3	86.8	74.1	69.5	71.8	71.8	70.6	70.6
65°	860.1	542.9	154.0	97.2	82.2	70.6	66.0	69.5	70.6	69.5	68.3
67.5°	687.6	417.9	127.3	88.0	76.4	64.8	61.4	64.8	66.0	64.8	64.8
70°	472.3	269.7	103.0	78.7	68.3	59.0	55.6	57.9	57.9	59.0	59.0
72.5°	244.3	145.9	84.5	67.1	59.0	53.2	49.8	49.8	48.6	48.6	48.6
75°	121.5	99.6	70.6	56.7	49.8	45.1	42.8	40.5	40.5	40.5	40.5
77.5°	84.5	76.4	57.9	45.1	40.5	37.0	37.0	33.6	33.6	33.6	33.6
80°	63.7	60.2	44.0	34.7	31.3	28.9	28.9	27.8	27.8	26.6	26.6
82.5°	45.1	48.6	33.6	25.5	23.2	22.0	22.0	20.8	20.8	18.5	18.5
85°	35.9	40.5	25.5	18.5	17.4	15.0	15.0	13.9	13.9	12.7	11.6
87.5°	10.4	22.0	10.4	6.9	6.9	6.9	6.9	5.8	5.8	4.6	4.6
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)