

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: P675488

Luminaire Tested: **CCW-SA-1B-850-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675488
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

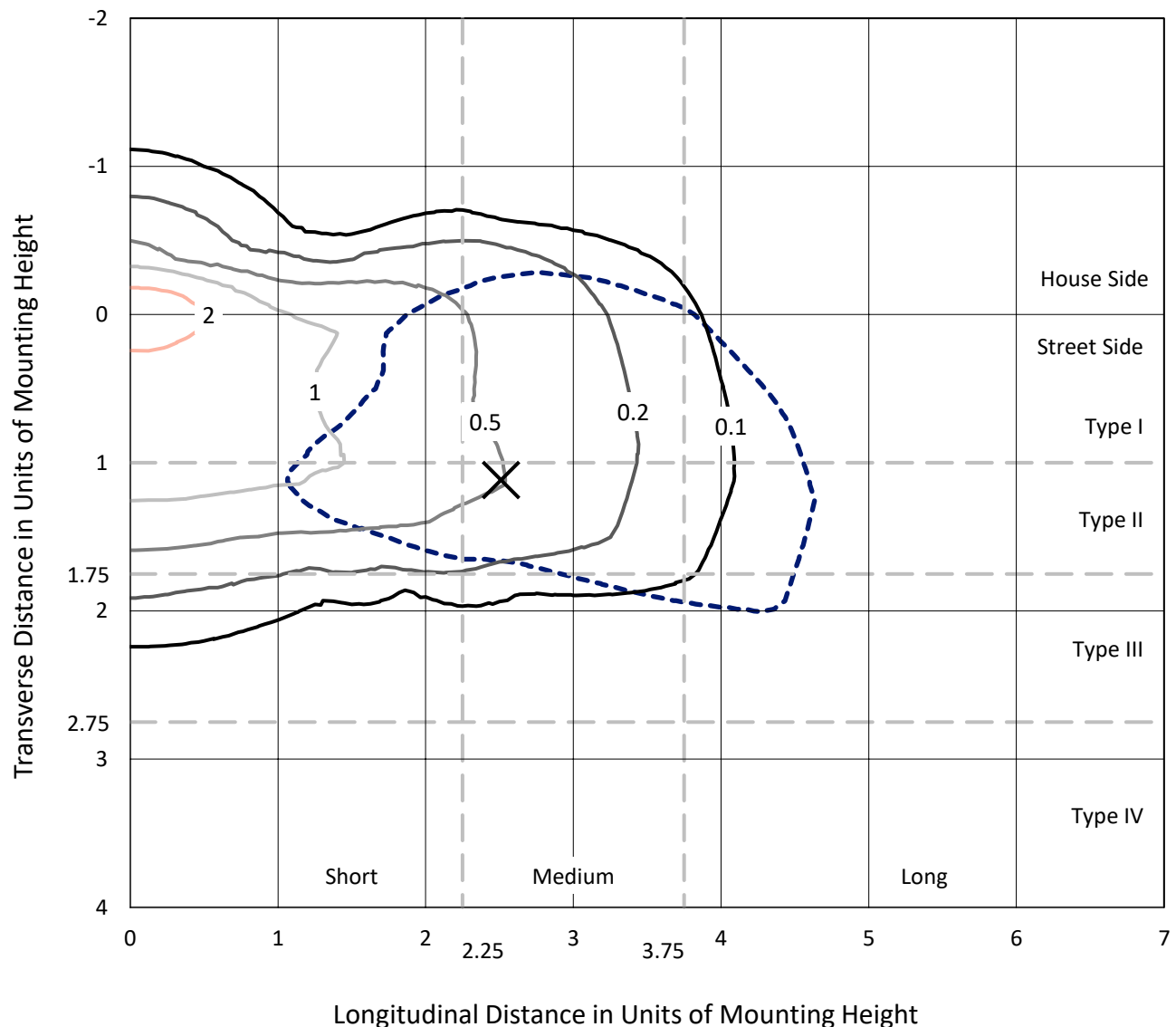
Lumens per Lamp: N/A
Luminaire Lumens: 2982.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

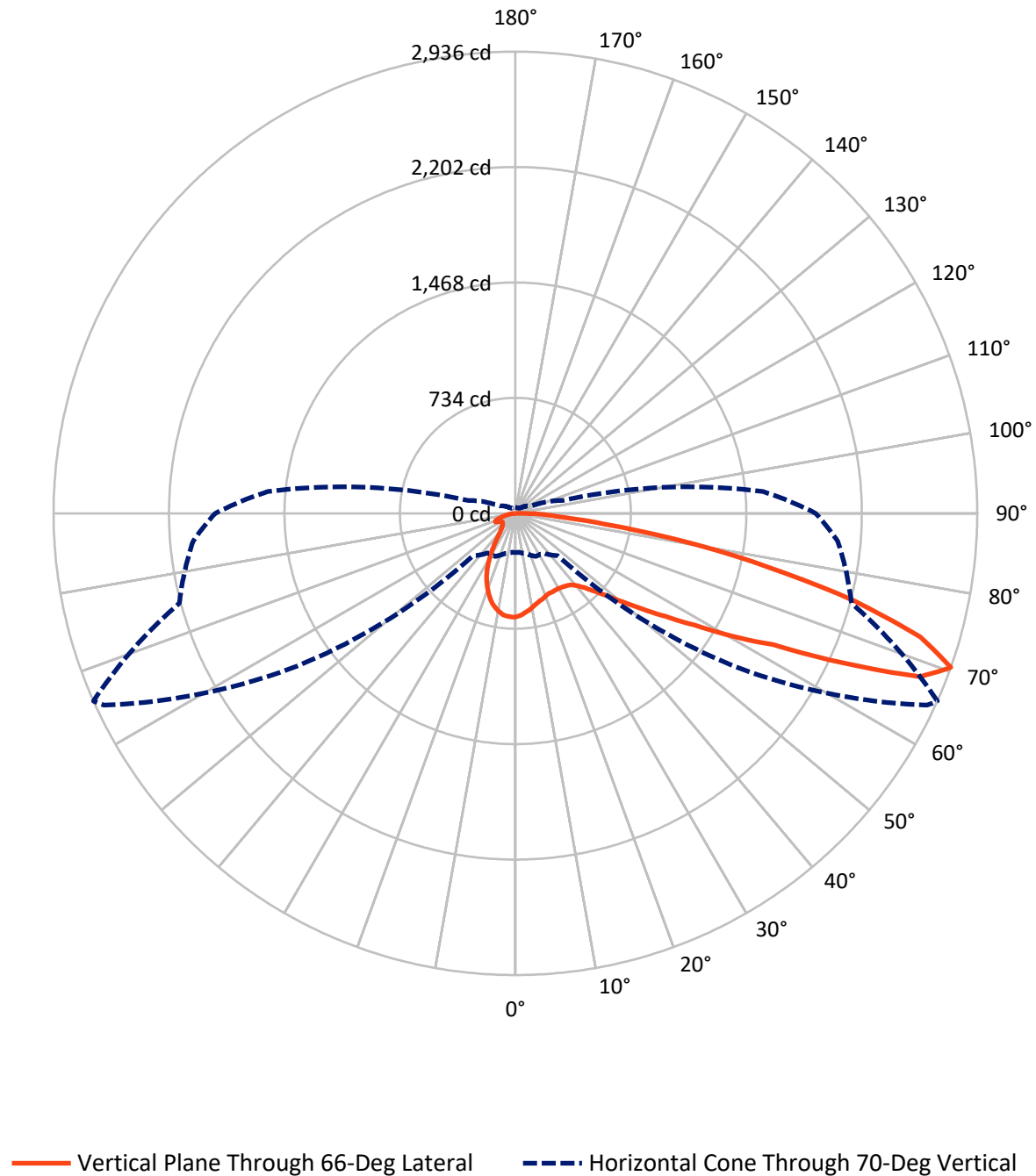
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	610.5	0.0	610.5
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	2372.0	0.0	2372.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	2982.5	0.0	2982.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	2.0
10°-20°	143.4	4.8
20°-30°	197.0	6.6
30°-40°	264.1	8.9
40°-50°	383.2	12.8
50°-60°	582.5	19.5
60°-70°	719.4	24.1
70°-80°	535.0	17.9
80°-90°	99.8	3.3
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°	2982.5	100.0
0°-180°	2982.5	100.0

Coefficient of Utilization



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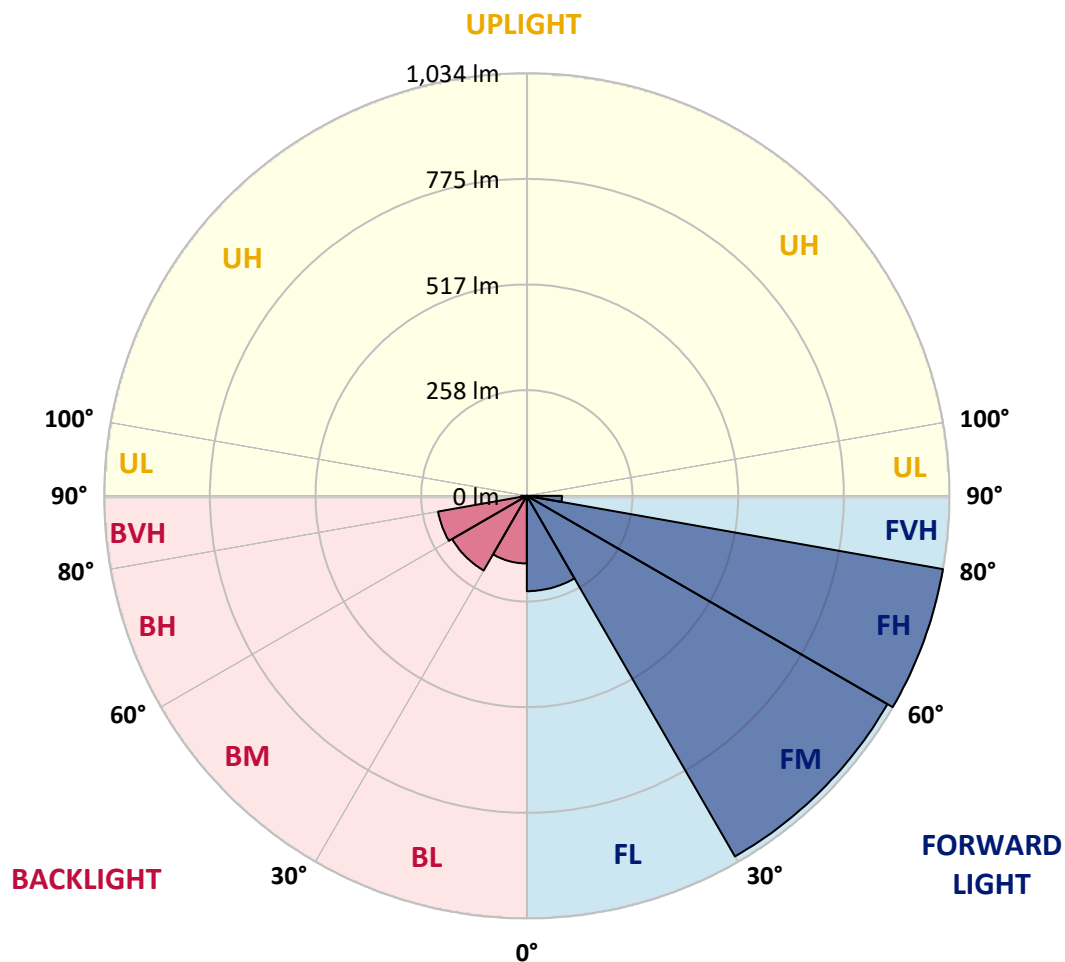
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.2	7.8			
FM	(30°-60°)	1018.9	34.2			
FH	(60°-80°)	1033.9	34.7			G1/1800
FVH	(80°-90°)	86.0	2.9			G1/100
BL	(0°-30°)	165.5	5.5	B1/500		
BM	(30°-60°)	210.9	7.1	B0/220		
BH	(60°-80°)	220.4	7.4	B1/500		G1/500
BVH	(80°-90°)	13.8	0.5			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9
2.5°	626.8	630.1	631.2	633.4	639.0	643.4	650.1	653.4	650.1	654.5	654.5
5°	583.5	579.1	590.2	594.6	601.3	610.1	625.7	637.9	634.5	647.8	658.9
7.5°	546.9	546.9	550.2	560.2	568.0	581.3	597.9	616.8	622.3	640.1	656.7
10°	513.6	518.1	518.1	533.6	538.0	553.6	581.3	604.6	605.7	635.6	658.9
12.5°	495.9	493.6	504.7	509.2	522.5	538.0	560.2	589.0	590.2	622.3	654.5
15°	481.4	483.7	489.2	500.3	512.5	524.7	545.8	572.4	578.0	615.7	652.3
17.5°	482.6	483.7	483.7	491.4	501.4	515.8	535.8	566.9	570.2	606.8	649.0
20°	489.2	484.8	488.1	491.4	498.1	511.4	528.0	554.7	558.0	605.7	656.7
22.5°	503.6	500.3	499.2	498.1	497.0	504.7	525.8	548.0	551.3	600.1	660.0
25°	526.9	525.8	518.1	510.3	504.7	504.7	521.4	553.6	552.4	600.1	662.3
27.5°	554.7	554.7	553.6	539.1	522.5	513.6	524.7	551.3	550.2	600.1	667.8
30°	592.4	592.4	589.0	575.7	545.8	520.3	526.9	549.1	552.4	595.7	663.4
32.5°	633.4	632.3	635.6	623.4	592.4	551.3	540.2	553.6	556.9	600.1	664.5
35°	663.4	670.0	681.1	670.0	639.0	583.5	559.1	562.4	564.6	601.3	668.9
37.5°	697.8	705.5	721.1	729.9	696.7	632.3	589.0	576.8	576.8	615.7	670.0
40°	747.7	739.9	766.5	782.1	768.8	692.2	635.6	603.5	604.6	634.5	684.5
42.5°	784.3	792.1	819.8	847.5	830.9	765.4	686.7	646.7	646.7	662.3	706.6
45°	825.3	834.2	873.0	906.3	918.5	853.1	756.6	708.9	706.6	716.6	746.6
47.5°	870.8	883.0	927.4	966.2	998.4	944.0	846.4	784.3	783.2	790.9	813.1
50°	923.0	927.4	964.0	1035.0	1099.3	1064.9	956.2	890.8	885.2	888.6	918.5
52.5°	938.5	935.2	977.3	1053.9	1171.4	1212.5	1106.0	1011.7	1009.5	1001.7	1040.5
55°	881.9	893.0	934.0	1031.7	1230.2	1386.6	1270.2	1177.0	1157.0	1135.9	1182.5
57.5°	768.8	769.9	816.5	931.8	1184.8	1530.9	1548.6	1338.9	1340.1	1283.5	1336.7
60°	597.9	594.6	631.2	735.5	1055.0	1575.2	1852.6	1597.4	1586.3	1431.0	1479.8
62.5°	431.5	424.9	432.6	493.6	788.7	1507.6	2151.0	1887.0	1840.4	1581.9	1619.6
65°	355.0	358.3	361.6	365.0	442.6	1243.5	2243.0	2359.5	2297.4	1758.3	1773.8
67.5°	294.0	296.2	310.6	330.6	328.4	734.4	2136.5	2796.6	2773.3	1976.8	1906.9
70°	249.6	248.5	265.1	301.7	307.3	381.6	1691.7	2886.4	2936.4	2212.0	2057.8
72.5°	199.7	201.9	216.3	265.1	301.7	321.7	974.0	2693.4	2692.3	2392.8	1976.8
75°	143.1	143.1	163.1	219.6	291.8	318.4	539.1	2186.5	2227.5	2248.6	1715.0
77.5°	94.3	98.7	114.3	164.2	274.0	311.7	341.7	1589.7	1640.7	1681.7	1312.3
80°	64.3	66.6	76.5	114.3	231.8	313.9	279.5	1069.4	1089.4	928.5	532.5
82.5°	38.8	39.9	51.0	79.9	166.4	298.4	262.9	590.2	578.0	280.7	153.1
85°	21.1	22.2	32.2	53.2	109.8	260.7	258.5	289.5	269.6	103.2	64.3
87.5°	7.8	7.8	14.4	26.6	63.2	178.6	225.2	171.9	160.9	52.1	30.0
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°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9	658.9
2.5°	660.0	660.0	660.0	660.0	658.9	654.5	657.8	656.7	650.1	651.2	646.7
5°	657.8	663.4	660.0	655.6	650.1	636.7	632.3	629.0	620.1	616.8	620.1
7.5°	663.4	658.9	656.7	649.0	626.8	614.6	599.0	580.2	566.9	563.5	566.9
10°	662.3	662.3	652.3	630.1	609.0	573.5	553.6	520.3	501.4	495.9	497.0
12.5°	657.8	661.2	645.6	610.1	570.2	526.9	490.3	454.8	421.5	408.2	406.0
15°	662.3	658.9	631.2	585.7	530.3	470.4	417.1	365.0	333.9	313.9	309.5
17.5°	655.6	652.3	612.3	552.4	478.1	401.6	335.0	278.4	247.4	239.6	239.6
20°	663.4	642.3	590.2	512.5	423.8	326.1	250.7	208.6	200.8	200.8	203.0
22.5°	662.3	640.1	571.3	473.7	358.3	246.3	186.4	174.2	175.3	184.1	183.0
25°	655.6	635.6	544.7	430.4	289.5	185.3	154.2	150.9	158.6	168.6	167.5
27.5°	654.5	623.4	520.3	379.4	220.8	146.4	134.2	134.2	142.0	150.9	149.8
30°	647.8	613.5	490.3	321.7	166.4	127.6	123.1	123.1	126.5	130.9	130.9
32.5°	646.7	600.1	457.0	261.8	133.1	115.4	113.2	114.3	114.3	116.5	115.4
35°	637.9	582.4	422.7	203.0	115.4	108.7	106.5	105.4	105.4	104.3	104.3
37.5°	634.5	571.3	387.2	157.5	107.6	103.2	100.9	97.6	96.5	96.5	95.4
40°	637.9	560.2	352.8	127.6	100.9	98.7	95.4	91.0	89.9	89.9	89.9
42.5°	650.1	559.1	317.3	110.9	97.6	94.3	89.9	85.4	84.3	85.4	84.3
45°	677.8	568.0	282.9	103.2	93.2	89.9	84.3	81.0	79.9	81.0	81.0
47.5°	723.3	592.4	251.8	98.7	89.9	85.4	79.9	76.5	76.5	76.5	76.5
50°	798.7	639.0	221.9	95.4	87.6	82.1	76.5	72.1	71.0	71.0	72.1
52.5°	911.9	718.8	197.5	93.2	84.3	77.7	72.1	68.8	66.6	65.4	66.6
55°	1048.3	835.3	189.7	91.0	79.9	74.3	68.8	64.3	62.1	62.1	61.0
57.5°	1194.7	964.0	203.0	88.7	76.5	69.9	64.3	59.9	57.7	56.6	56.6
60°	1353.4	1116.0	251.8	87.6	73.2	65.4	59.9	56.6	53.2	52.1	52.1
62.5°	1497.6	1253.5	339.5	86.5	71.0	61.0	55.5	51.0	48.8	47.7	47.7
65°	1661.8	1406.6	424.9	91.0	69.9	57.7	51.0	46.6	44.4	43.3	43.3
67.5°	1804.9	1539.7	474.8	102.1	73.2	53.2	45.5	42.2	41.0	39.9	39.9
70°	1909.1	1580.8	318.4	112.0	78.8	49.9	41.0	38.8	36.6	36.6	36.6
72.5°	1769.4	1411.1	188.6	105.4	74.3	46.6	36.6	34.4	33.3	33.3	32.2
75°	1513.1	1201.4	145.3	85.4	59.9	39.9	32.2	30.0	28.8	28.8	27.7
77.5°	1117.1	860.8	107.6	67.7	46.6	32.2	27.7	26.6	25.5	24.4	24.4
80°	437.1	377.2	73.2	49.9	34.4	25.5	23.3	22.2	21.1	20.0	20.0
82.5°	135.3	114.3	42.2	33.3	24.4	20.0	18.9	17.7	16.6	15.5	15.5
85°	58.8	56.6	27.7	21.1	16.6	13.3	13.3	12.2	11.1	10.0	10.0
87.5°	28.8	27.7	15.5	10.0	8.9	6.7	6.7	5.5	4.4	4.4	4.4
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)