

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: P675744

Luminaire Tested: **CCW-SA-1C-830-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675744
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

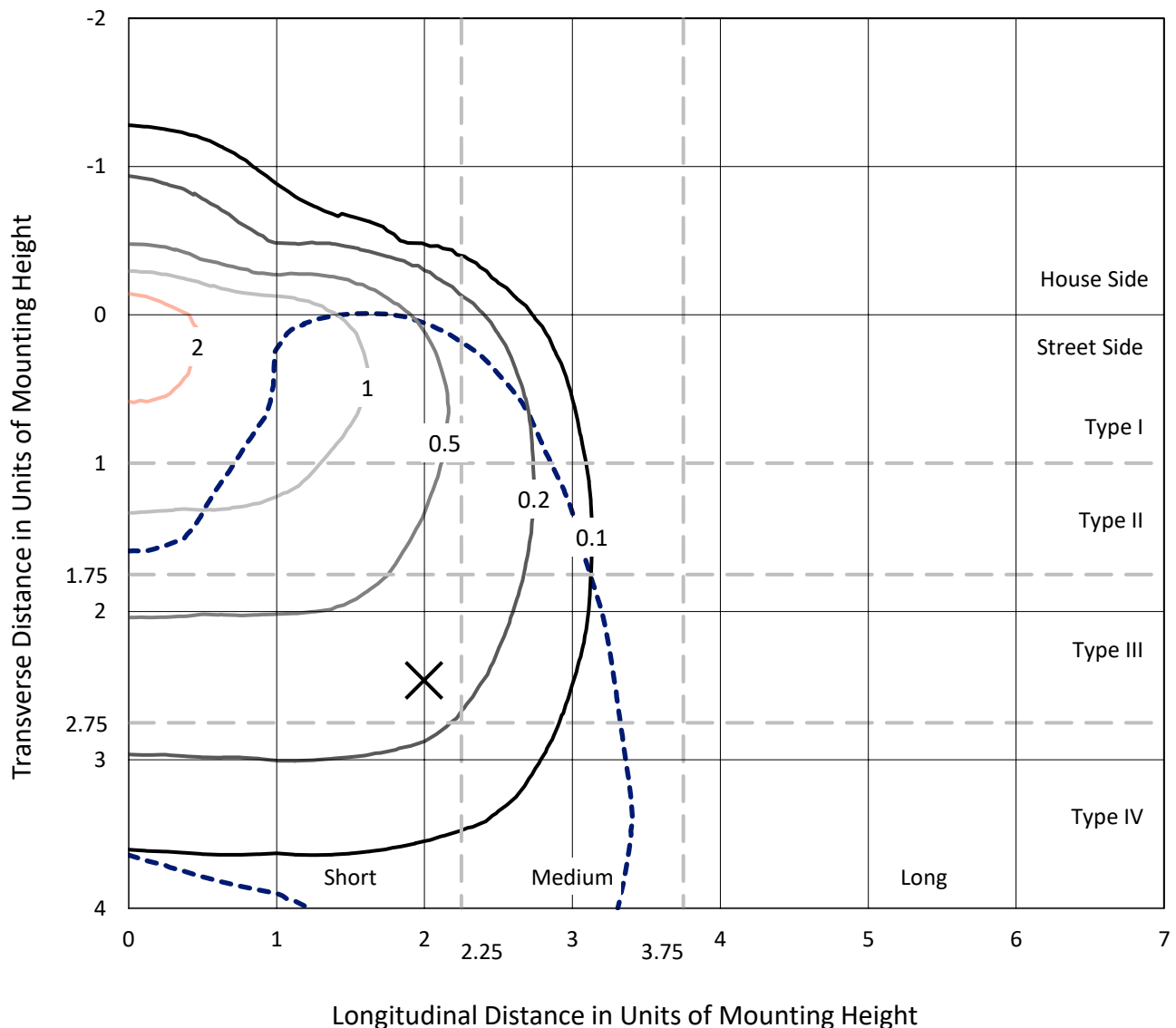
Lumens per Lamp: N/A
Luminaire Lumens: 3520.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

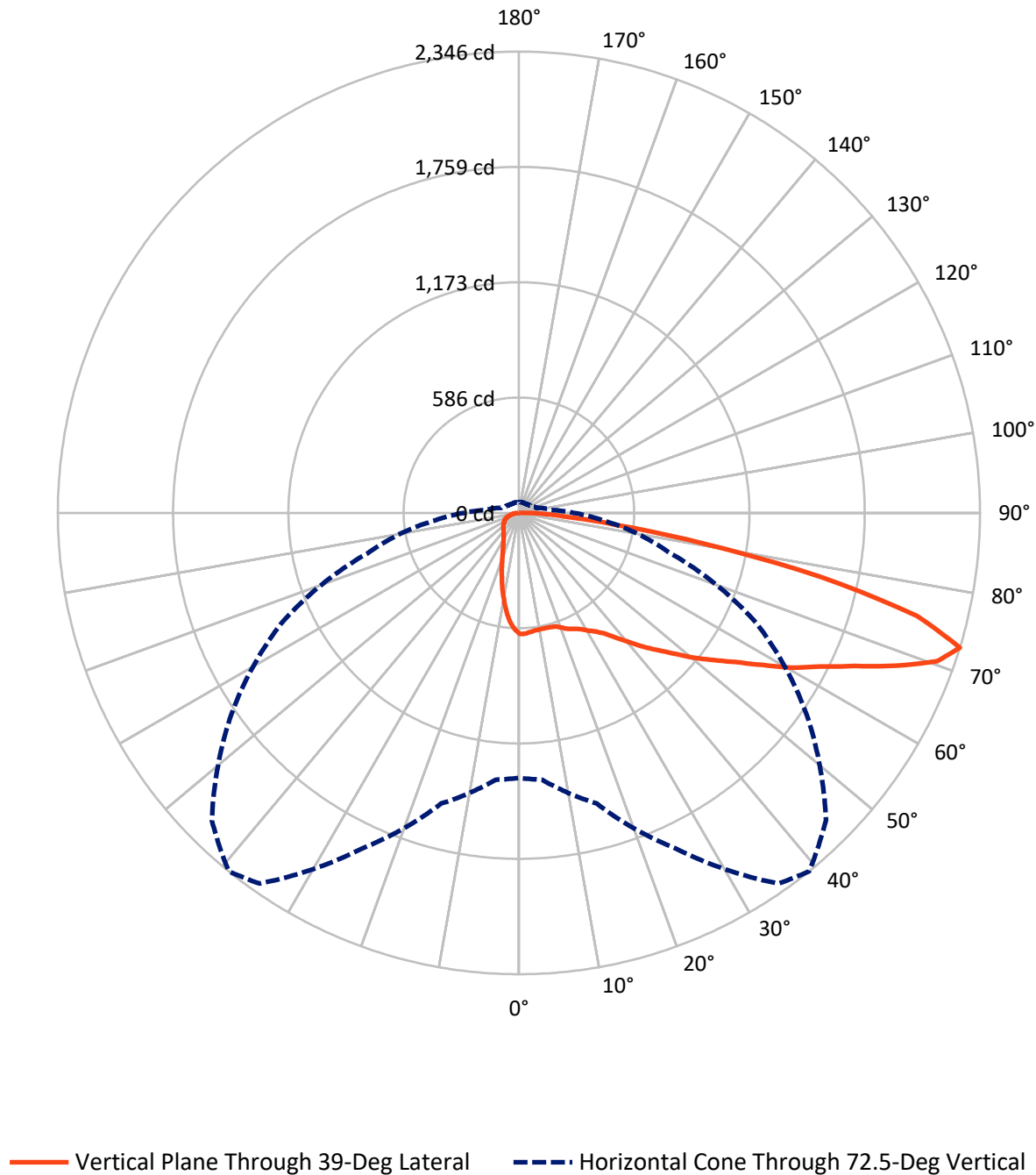
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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	523.2	0.0	523.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2997.2	0.0	2997.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	3520.5	0.0	3520.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.5
10°-20°	139.0	3.9
20°-30°	211.7	6.0
30°-40°	309.7	8.8
40°-50°	474.2	13.5
50°-60°	695.5	19.8
60°-70°	887.0	25.2
70°-80°	640.8	18.2
80°-90°	108.1	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°	3520.5	100.0
0°-180°	3520.5	100.0

Coefficient of Utilization



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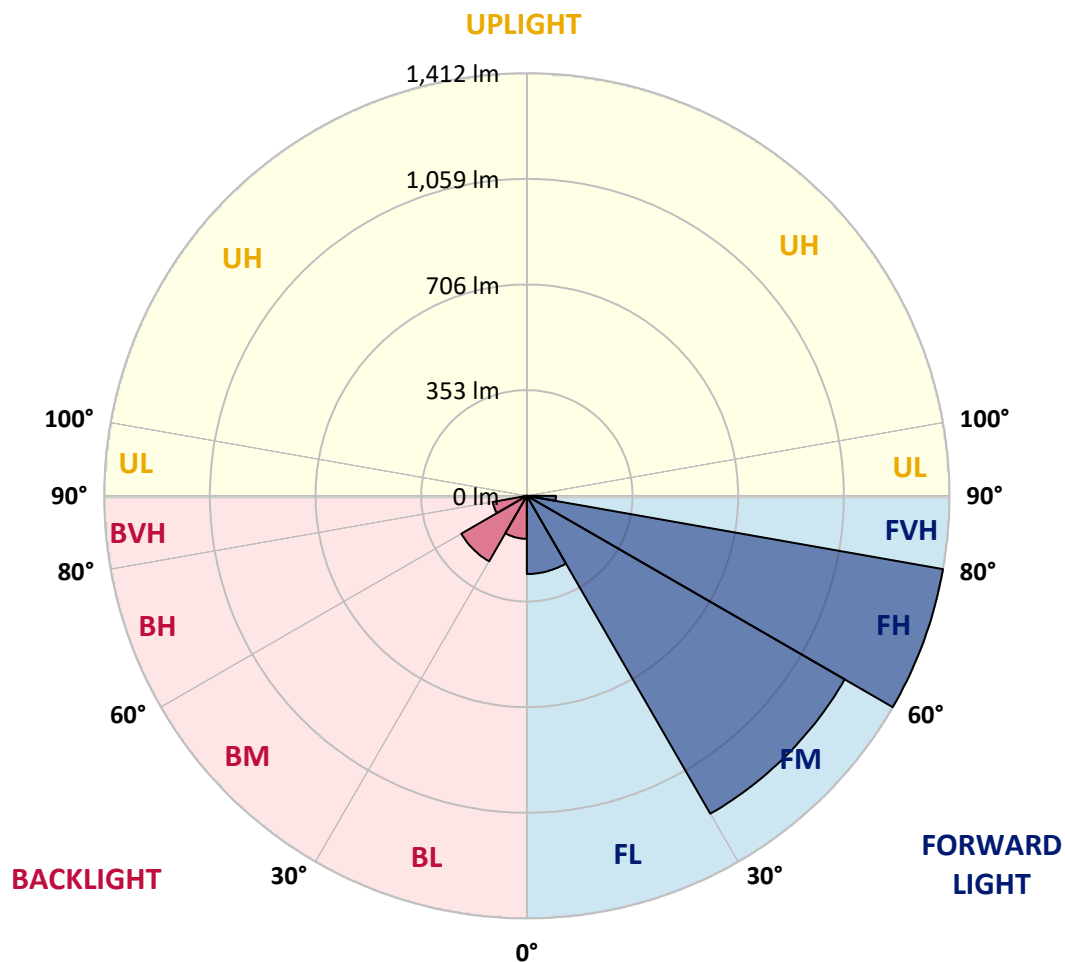
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.3	7.4			
FM	(30°-60°)	1226.6	34.8			
FH	(60°-80°)	1412.2	40.1			G1/1800
FVH	(80°-90°)	97.2	2.8			G1/100
BL	(0°-30°)	143.9	4.1	B1/500		
BM	(30°-60°)	252.8	7.2	B1/1000		
BH	(60°-80°)	115.6	3.3	B1/500		G1/500
BVH	(80°-90°)	11.0	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2
2.5°	625.5	626.8	624.2	621.5	620.2	614.9	620.2	617.6	614.9	614.9	614.9
5°	617.6	618.9	618.9	616.2	617.6	608.3	607.0	608.3	604.3	601.7	600.4
7.5°	605.7	608.3	613.6	612.3	607.0	603.0	604.3	603.0	596.4	592.4	581.9
10°	596.4	599.0	601.7	604.3	603.0	601.7	600.4	595.1	593.8	584.5	573.9
12.5°	587.1	587.1	588.5	599.0	600.4	600.4	592.4	592.4	588.5	587.1	571.3
15°	577.9	581.9	592.4	595.1	600.4	603.0	599.0	599.0	592.4	583.2	571.3
17.5°	580.5	587.1	597.7	604.3	607.0	607.0	612.3	608.3	599.0	593.8	581.9
20°	593.8	595.1	608.3	620.2	622.8	622.8	617.6	613.6	607.0	597.7	581.9
22.5°	601.7	610.9	626.8	633.4	641.4	641.4	634.7	625.5	616.2	607.0	589.8
25°	636.1	637.4	644.0	654.6	658.6	653.3	646.7	636.1	624.2	614.9	599.0
27.5°	659.9	666.5	674.4	679.7	673.1	669.1	663.8	651.9	642.7	634.7	612.3
30°	703.5	695.6	700.9	703.5	691.6	694.3	679.7	669.1	658.6	658.6	633.4
32.5°	730.0	736.6	731.3	730.0	720.7	719.4	710.1	698.2	691.6	699.5	665.2
35°	776.2	772.3	772.3	771.0	760.4	753.8	753.8	732.6	739.2	756.4	714.1
37.5°	800.0	798.7	806.7	813.3	802.7	806.7	802.7	793.4	796.1	826.5	774.9
40°	823.9	833.1	849.0	851.6	858.2	863.5	860.9	859.6	870.1	919.1	856.9
42.5°	846.3	854.3	878.1	899.2	915.1	932.3	933.6	933.6	968.0	1038.1	956.1
45°	875.4	882.0	915.1	957.4	983.9	995.8	1006.3	1018.2	1064.5	1147.8	1061.9
47.5°	915.1	920.4	960.1	1013.0	1064.5	1071.1	1092.3	1105.5	1175.6	1260.2	1170.3
50°	972.0	968.0	999.7	1076.4	1126.7	1158.4	1188.8	1212.6	1281.4	1374.0	1255.0
52.5°	1018.2	1018.2	1042.0	1143.9	1212.6	1243.1	1274.8	1307.8	1387.2	1487.7	1323.7
55°	1097.6	1089.7	1104.2	1210.0	1309.2	1338.3	1399.1	1426.9	1503.6	1572.3	1381.9
57.5°	1151.8	1155.8	1173.0	1297.3	1422.9	1458.6	1519.4	1539.3	1606.7	1660.9	1424.2
60°	1223.2	1210.0	1247.0	1393.8	1548.5	1598.8	1649.0	1660.9	1711.2	1717.8	1444.1
62.5°	1292.0	1289.3	1321.1	1490.3	1683.4	1719.1	1770.7	1783.9	1805.1	1762.8	1416.3
65°	1334.3	1351.5	1411.0	1596.1	1836.8	1876.5	1928.1	1901.6	1877.8	1723.1	1280.1
67.5°	1392.5	1400.4	1491.7	1711.2	2014.0	2073.5	2118.5	2014.0	1836.8	1560.4	1077.8
70°	1405.7	1426.9	1545.9	1831.5	2196.5	2257.3	2260.0	1975.7	1687.4	1269.5	781.5
72.5°	1347.5	1362.1	1530.0	1881.8	2301.0	2345.9	2209.7	1786.6	1336.9	800.0	425.8
75°	1133.3	1174.3	1331.7	1727.0	2109.2	2092.0	1872.5	1363.4	802.7	354.4	179.8
77.5°	789.5	790.8	954.8	1256.3	1578.9	1575.0	1335.6	790.8	343.8	142.8	105.8
80°	350.4	375.6	474.7	677.1	958.7	958.7	778.9	392.8	171.9	92.6	72.7
82.5°	206.3	214.2	253.9	316.1	466.8	491.9	372.9	261.8	117.7	58.2	45.0
85°	152.1	165.3	189.1	190.4	220.8	224.8	206.3	227.5	80.7	31.7	37.0
87.5°	113.7	121.7	150.8	125.6	117.7	111.1	126.9	232.7	30.4	15.9	11.9
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°	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2	616.2
2.5°	609.6	609.6	607.0	601.7	601.7	591.1	593.8	596.4	589.8	589.8	591.1
5°	600.4	595.1	588.5	580.5	575.2	560.7	558.1	548.8	547.5	544.8	540.9
7.5°	581.9	573.9	562.0	550.1	532.9	519.7	503.8	490.6	485.3	481.4	480.0
10°	564.7	563.3	543.5	519.7	493.3	468.1	444.3	427.1	416.6	409.9	408.6
12.5°	564.7	554.1	526.3	493.3	454.9	417.9	387.5	363.7	349.1	338.5	334.6
15°	562.0	551.4	514.4	464.2	420.5	370.3	328.0	302.8	281.7	271.1	272.4
17.5°	564.7	548.8	497.2	443.0	382.2	328.0	277.7	247.3	226.1	218.2	216.9
20°	566.0	546.1	484.0	413.9	342.5	281.7	234.1	205.0	189.1	183.8	183.8
22.5°	563.3	538.2	464.2	379.5	308.1	243.3	203.6	178.5	167.9	161.3	164.0
25°	575.2	536.9	445.6	350.4	268.4	211.6	181.2	162.7	156.0	152.1	153.4
27.5°	577.9	536.9	431.1	317.4	234.1	187.8	164.0	152.1	146.8	144.1	142.8
30°	588.5	539.5	413.9	284.3	206.3	169.3	150.8	144.1	140.2	138.9	138.9
32.5°	617.6	547.5	395.4	256.5	182.5	153.4	141.5	136.2	133.6	132.2	133.6
35°	651.9	568.6	375.6	227.5	165.3	142.8	133.6	129.6	128.3	128.3	128.3
37.5°	704.8	600.4	358.4	203.6	150.8	132.2	125.6	124.3	123.0	124.3	124.3
40°	765.7	634.7	342.5	185.1	140.2	125.6	119.0	119.0	117.7	119.0	120.3
42.5°	835.8	677.1	326.6	166.6	130.9	120.3	115.0	113.7	112.4	115.0	116.4
45°	932.3	735.3	316.1	156.0	124.3	115.0	109.8	109.8	108.4	108.4	111.1
47.5°	1013.0	790.8	316.1	145.5	120.3	111.1	105.8	105.8	103.1	104.5	104.5
50°	1080.4	838.4	322.7	142.8	115.0	107.1	103.1	100.5	99.2	99.2	99.2
52.5°	1125.4	867.5	328.0	140.2	112.4	101.8	99.2	97.9	95.2	93.9	95.2
55°	1170.3	887.3	329.3	140.2	108.4	96.5	93.9	93.9	91.2	89.9	89.9
57.5°	1187.5	879.4	310.8	137.5	105.8	92.6	89.9	88.6	87.3	86.0	86.0
60°	1179.6	850.3	269.8	130.9	103.1	89.9	84.6	84.6	84.6	82.0	83.3
62.5°	1125.4	751.1	216.9	120.3	99.2	84.6	79.3	82.0	82.0	80.7	80.7
65°	982.5	620.2	175.9	111.1	93.9	80.7	75.4	79.3	80.7	79.3	78.0
67.5°	785.5	477.4	145.5	100.5	87.3	74.1	70.1	74.1	75.4	74.1	74.1
70°	539.5	308.1	117.7	89.9	78.0	67.4	63.5	66.1	66.1	67.4	67.4
72.5°	279.0	166.6	96.5	76.7	67.4	60.8	56.9	56.9	55.5	55.5	55.5
75°	138.9	113.7	80.7	64.8	56.9	51.6	48.9	46.3	46.3	46.3	46.3
77.5°	96.5	87.3	66.1	51.6	46.3	42.3	42.3	38.3	38.3	38.3	38.3
80°	72.7	68.8	50.3	39.7	35.7	33.1	33.1	31.7	31.7	30.4	30.4
82.5°	51.6	55.5	38.3	29.1	26.4	25.1	25.1	23.8	23.8	21.2	21.2
85°	41.0	46.3	29.1	21.2	19.8	17.2	17.2	15.9	15.9	14.5	13.2
87.5°	11.9	25.1	11.9	7.9	7.9	7.9	7.9	6.6	6.6	5.3	5.3
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)