

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: P675343

Luminaire Tested: **CCW-SA-1A-850-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675343
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.3 lumens
Efficiency: N/A
Efficacy: 133.8 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

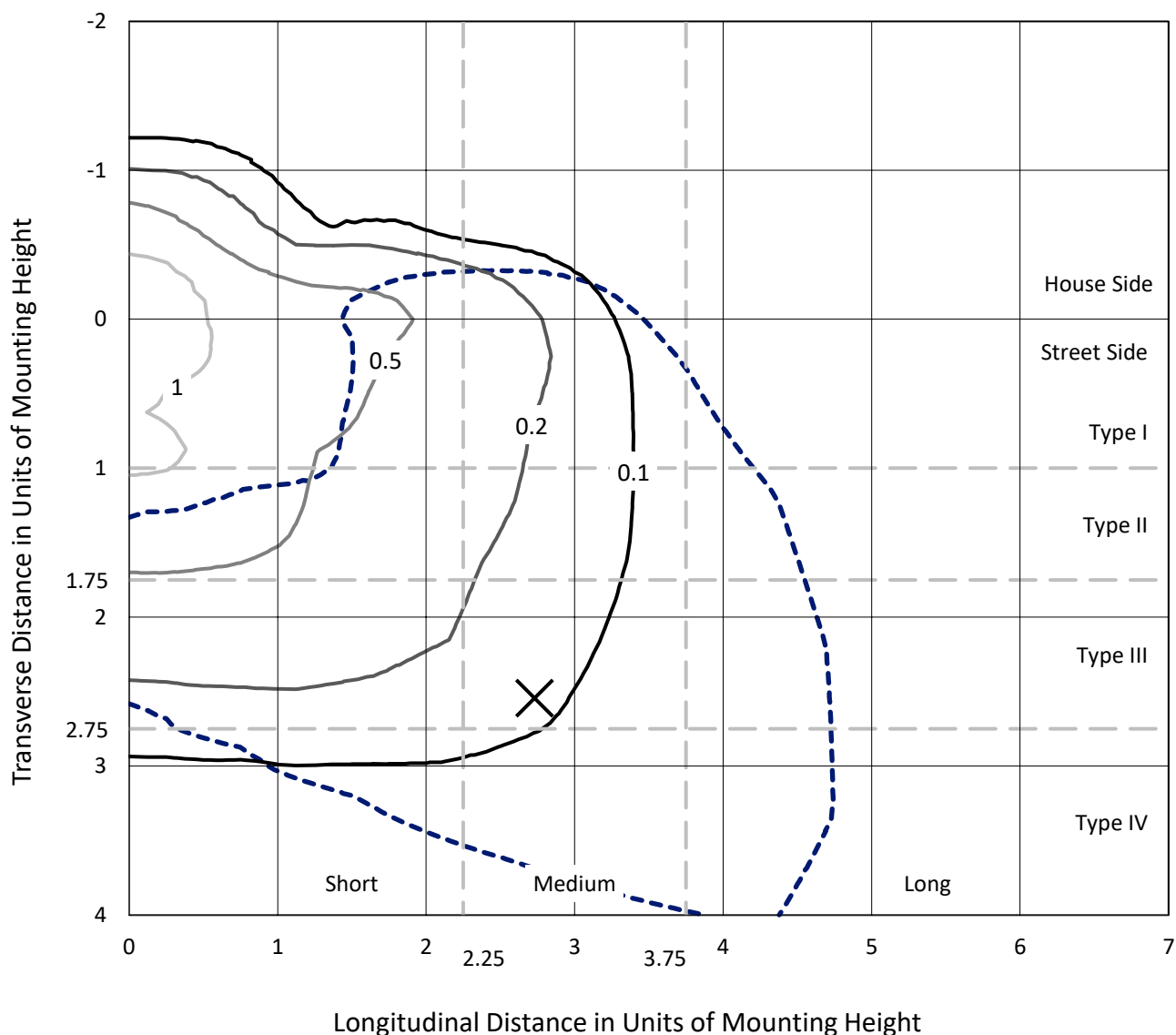
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

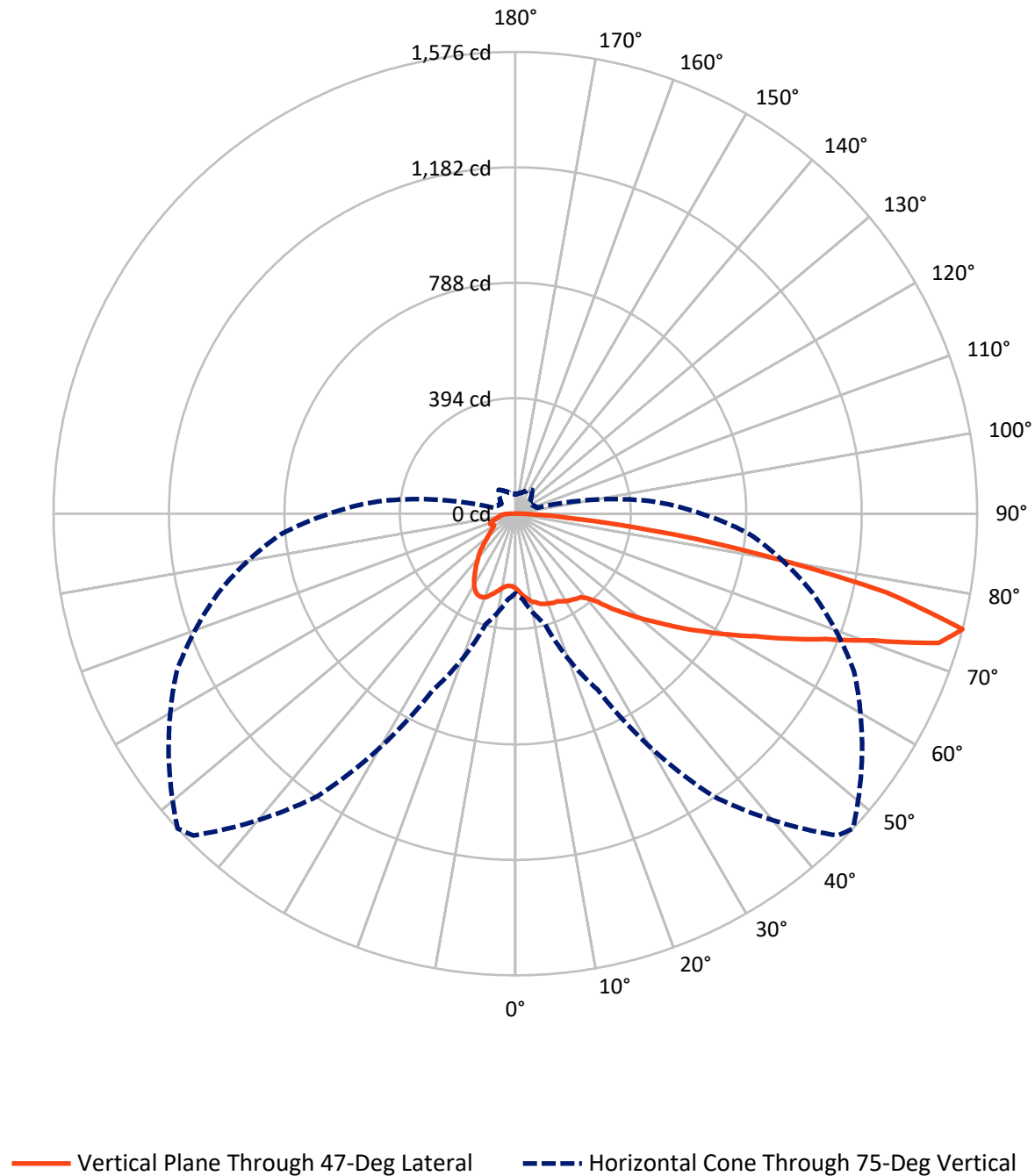
--- 1/2 Max cd



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	576.0	0.0	576.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1832.4	0.0	1832.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	2408.3	0.0	2408.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.1
10°-20°	85.8	3.6
20°-30°	147.0	6.1
30°-40°	205.7	8.5
40°-50°	286.9	11.9
50°-60°	428.8	17.8
60°-70°	618.2	25.7
70°-80°	526.2	21.8
80°-90°	83.8	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°	2408.3	100.0
0°-180°	2408.3	100.0



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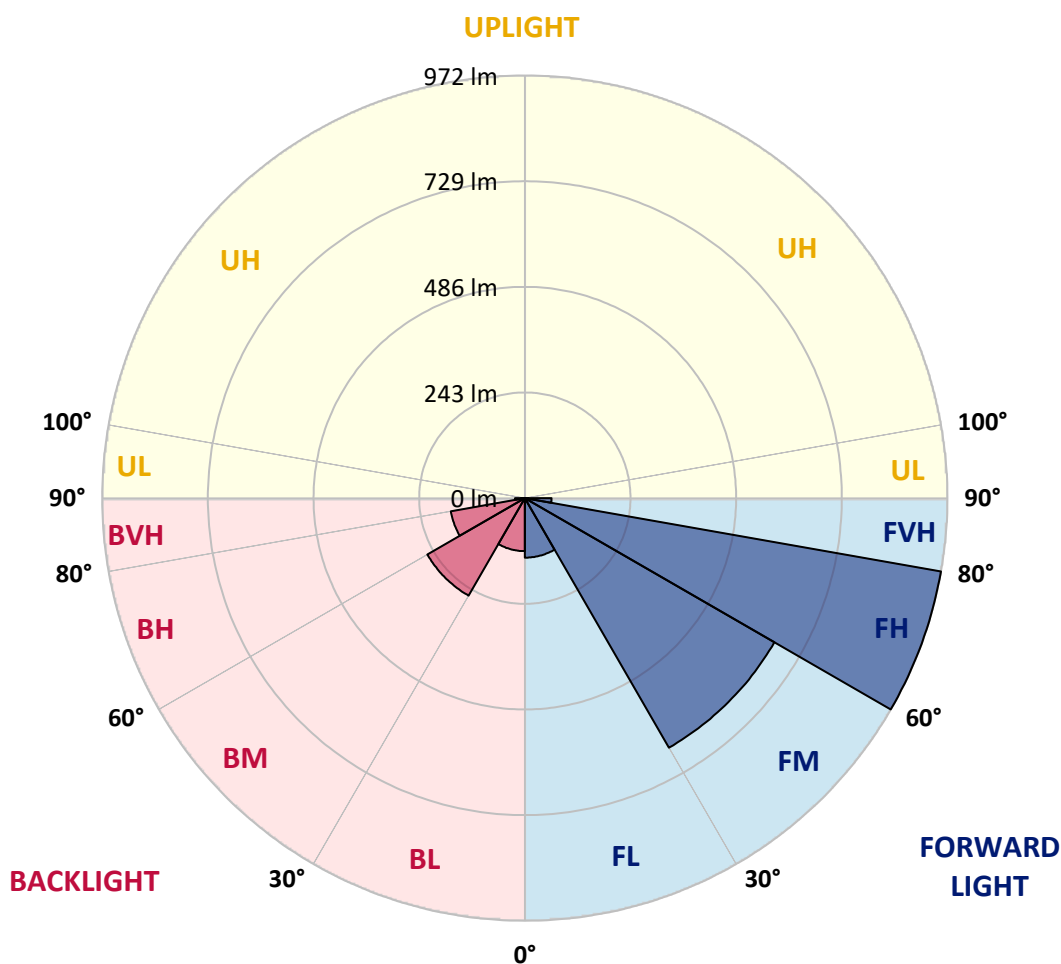
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.8	5.7			
FM	(30°-60°)	662.5	27.5			
FH	(60°-80°)	971.6	40.3			G1/1800
FVH	(80°-90°)	61.4	2.6			G1/100
BL	(0°-30°)	121.9	5.1	B1/500		
BM	(30°-60°)	258.9	10.7	B1/1000		
BH	(60°-80°)	172.8	7.2	B1/500		G1/500
BVH	(80°-90°)	22.4	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°	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7
2.5°	274.2	275.0	275.0	273.3	271.5	268.0	268.0	264.5	262.7	258.4	256.6
5°	299.7	297.0	294.4	293.5	289.1	283.0	282.1	278.6	268.9	264.5	258.4
7.5°	318.1	317.2	316.3	312.8	304.9	295.3	292.6	287.3	277.7	268.9	261.9
10°	333.0	336.6	333.0	325.1	317.2	306.7	305.8	296.1	287.3	276.8	268.0
12.5°	349.7	350.6	344.5	334.8	322.5	313.7	310.2	306.7	297.0	288.2	275.0
15°	361.2	359.4	355.0	341.8	327.8	319.0	319.9	315.5	304.9	298.8	284.7
17.5°	361.2	361.2	354.1	344.5	332.2	324.3	324.3	321.6	314.6	305.8	296.1
20°	354.1	354.1	349.7	344.5	330.4	328.7	326.9	325.1	325.1	317.2	303.2
22.5°	345.3	343.6	345.3	336.6	326.9	328.7	331.3	330.4	327.8	320.7	311.1
25°	336.6	337.4	339.2	333.0	324.3	332.2	331.3	335.7	333.9	328.7	320.7
27.5°	335.7	337.4	338.3	332.2	328.7	335.7	339.2	343.6	344.5	339.2	329.5
30°	348.9	348.0	347.1	339.2	336.6	342.7	346.2	352.4	357.6	346.2	338.3
32.5°	383.1	377.9	372.6	351.5	343.6	348.0	351.5	360.3	361.2	355.0	343.6
35°	437.6	434.1	416.5	379.6	357.6	353.3	356.8	362.9	364.7	360.3	351.5
37.5°	500.0	498.2	473.6	428.8	386.6	365.6	362.0	370.8	377.9	368.2	355.9
40°	561.5	554.5	536.9	493.0	423.6	384.0	379.6	384.0	386.6	379.6	371.7
42.5°	616.9	609.0	604.6	560.6	471.9	414.8	411.3	400.7	408.6	399.8	389.3
45°	663.5	661.7	659.9	622.2	527.2	464.9	462.2	435.0	443.8	436.7	421.8
47.5°	696.8	704.8	702.1	681.0	590.5	518.5	510.6	475.4	488.6	481.6	466.6
50°	736.4	740.8	738.1	724.1	649.4	580.0	565.0	529.0	543.9	543.1	535.2
52.5°	771.5	784.7	769.8	768.9	733.8	646.8	621.3	587.0	611.6	621.3	620.4
55°	812.8	823.4	819.0	817.2	809.3	711.8	688.9	647.6	688.9	703.0	715.3
57.5°	848.0	847.1	863.8	884.0	893.7	786.5	759.2	710.9	773.3	789.1	823.4
60°	863.8	878.7	906.9	957.8	985.1	866.4	838.3	799.7	858.5	870.8	934.1
62.5°	874.4	887.5	942.0	1028.1	1043.9	948.2	921.8	883.1	951.7	960.5	1054.5
65°	845.4	857.7	965.7	1054.5	1110.7	1036.0	1029.9	989.5	1044.8	1050.1	1181.0
67.5°	812.0	825.1	945.5	1087.9	1199.5	1152.9	1143.2	1094.9	1137.1	1130.9	1277.7
70°	753.1	770.7	893.7	1116.9	1297.9	1316.4	1297.0	1228.5	1232.9	1174.9	1282.1
72.5°	573.8	585.2	699.5	1001.8	1343.6	1543.1	1509.7	1372.6	1322.5	1183.7	1131.8
75°	272.4	293.5	390.2	662.6	1177.5	1553.6	1575.6	1443.8	1275.1	1050.1	802.3
77.5°	79.1	79.1	118.6	281.2	738.1	1252.2	1293.5	1225.8	1051.9	777.7	421.8
80°	43.1	45.7	62.4	99.3	324.3	790.0	849.7	812.8	619.5	307.6	109.0
82.5°	24.6	25.5	41.3	59.8	147.6	429.7	464.9	421.8	235.5	93.1	51.0
85°	14.1	14.9	23.7	39.5	87.9	158.2	172.2	149.4	94.9	62.4	25.5
87.5°	7.0	7.0	11.4	18.5	44.8	44.8	43.9	53.6	57.1	37.8	11.4
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°	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7	255.7
2.5°	255.7	254.8	254.8	251.3	250.4	247.8	247.8	246.0	245.2	247.8	247.8
5°	256.6	252.2	251.3	247.8	248.7	246.9	250.4	248.7	247.8	247.8	246.9
7.5°	258.4	254.0	250.4	247.8	246.9	249.6	254.0	254.0	259.2	256.6	256.6
10°	262.7	260.1	255.7	254.0	254.0	256.6	261.9	265.4	269.8	269.8	267.1
12.5°	273.3	268.9	263.6	261.0	264.5	267.1	272.4	275.9	281.2	283.0	281.2
15°	281.2	276.8	275.0	273.3	275.9	279.4	283.8	287.3	293.5	295.3	294.4
17.5°	291.7	286.5	285.6	286.5	288.2	290.9	293.5	296.1	300.5	300.5	300.5
20°	297.0	295.3	294.4	297.0	300.5	304.0	302.3	300.5	299.7	301.4	300.5
22.5°	306.7	304.9	305.8	308.4	308.4	306.7	304.0	297.9	296.1	297.9	296.1
25°	315.5	313.7	313.7	312.0	311.1	304.9	299.7	294.4	288.2	290.9	290.0
27.5°	324.3	323.4	323.4	316.3	307.6	297.0	290.0	283.8	280.3	284.7	282.1
30°	334.8	335.7	331.3	314.6	293.5	282.1	274.2	273.3	272.4	275.0	274.2
32.5°	344.5	345.3	338.3	312.0	283.0	261.0	253.1	254.0	258.4	262.7	267.1
35°	349.7	354.1	345.3	303.2	261.9	237.3	228.5	236.4	244.3	250.4	254.8
37.5°	359.4	370.8	355.9	293.5	243.4	216.2	210.0	212.7	222.3	232.0	236.4
40°	373.5	386.6	358.5	275.0	218.8	195.1	191.6	192.4	196.0	202.1	206.5
42.5°	398.1	412.1	361.2	251.3	194.2	181.9	172.2	169.6	167.0	167.0	166.1
45°	434.1	447.3	357.6	221.4	169.6	160.8	153.8	147.6	140.6	129.2	130.9
47.5°	486.8	497.4	360.3	195.1	146.8	139.7	134.4	127.4	116.9	104.6	103.7
50°	566.8	551.0	356.8	167.8	130.1	123.9	119.5	109.8	97.5	88.8	87.9
52.5°	659.9	628.3	353.3	145.0	116.0	110.7	107.2	96.7	85.2	80.8	80.0
55°	772.4	726.7	358.5	124.8	105.4	101.1	97.5	87.9	79.1	75.6	74.7
57.5°	905.1	833.0	387.5	109.0	94.0	92.3	91.4	83.5	75.6	72.9	72.1
60°	1029.9	935.0	406.9	97.5	83.5	85.2	87.0	83.5	74.7	72.9	72.9
62.5°	1134.5	1019.3	376.1	87.9	78.2	83.5	91.4	88.8	85.2	87.0	85.2
65°	1226.7	1048.3	281.2	82.6	75.6	87.9	101.1	100.2	92.3	94.0	93.1
67.5°	1242.5	1013.2	183.7	78.2	73.8	96.7	113.4	102.8	87.0	87.0	84.4
70°	1176.6	919.2	123.0	73.8	72.9	96.7	116.0	96.7	81.7	81.7	78.2
72.5°	965.7	734.6	94.9	69.4	66.8	86.1	109.8	91.4	76.5	74.7	68.5
75°	634.5	473.6	77.3	65.9	58.0	75.6	99.3	84.4	72.9	67.7	65.0
77.5°	311.1	212.7	65.0	58.0	50.1	65.9	90.5	80.0	68.5	63.3	61.5
80°	85.2	76.5	54.5	51.0	42.2	57.1	85.2	76.5	64.1	58.9	56.2
82.5°	48.3	47.5	43.9	41.3	35.1	57.1	86.1	76.5	60.6	59.8	51.0
85°	26.4	28.1	31.6	30.8	27.2	51.0	81.7	66.8	49.2	41.3	41.3
87.5°	10.5	13.2	15.8	17.6	18.5	37.8	61.5	51.0	37.8	31.6	31.6
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)