

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: P675310

Luminaire Tested: **CCW-SA-1A-830-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675310
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-830-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

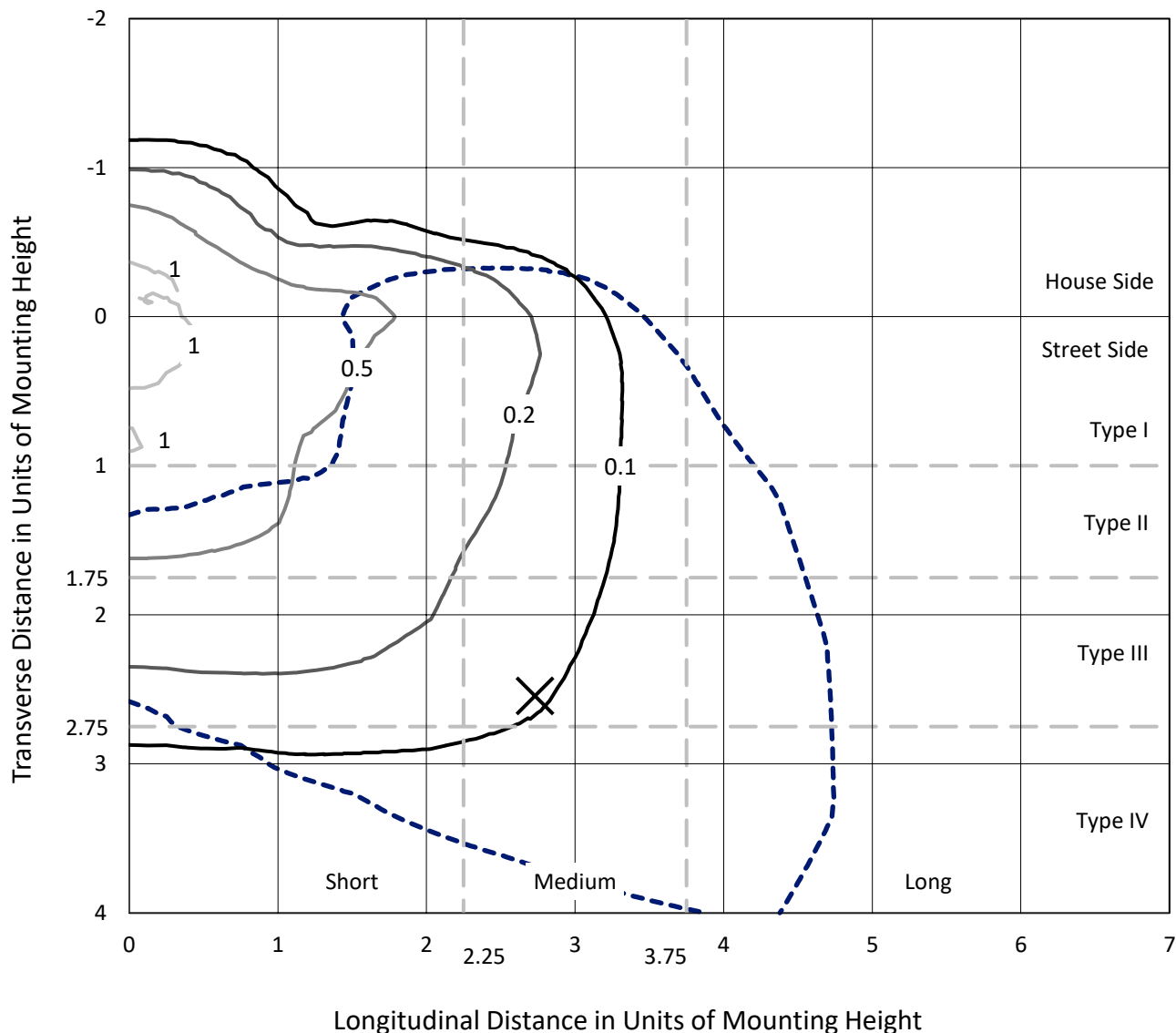
Lumens per Lamp: N/A
Luminaire Lumens: 2193.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

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

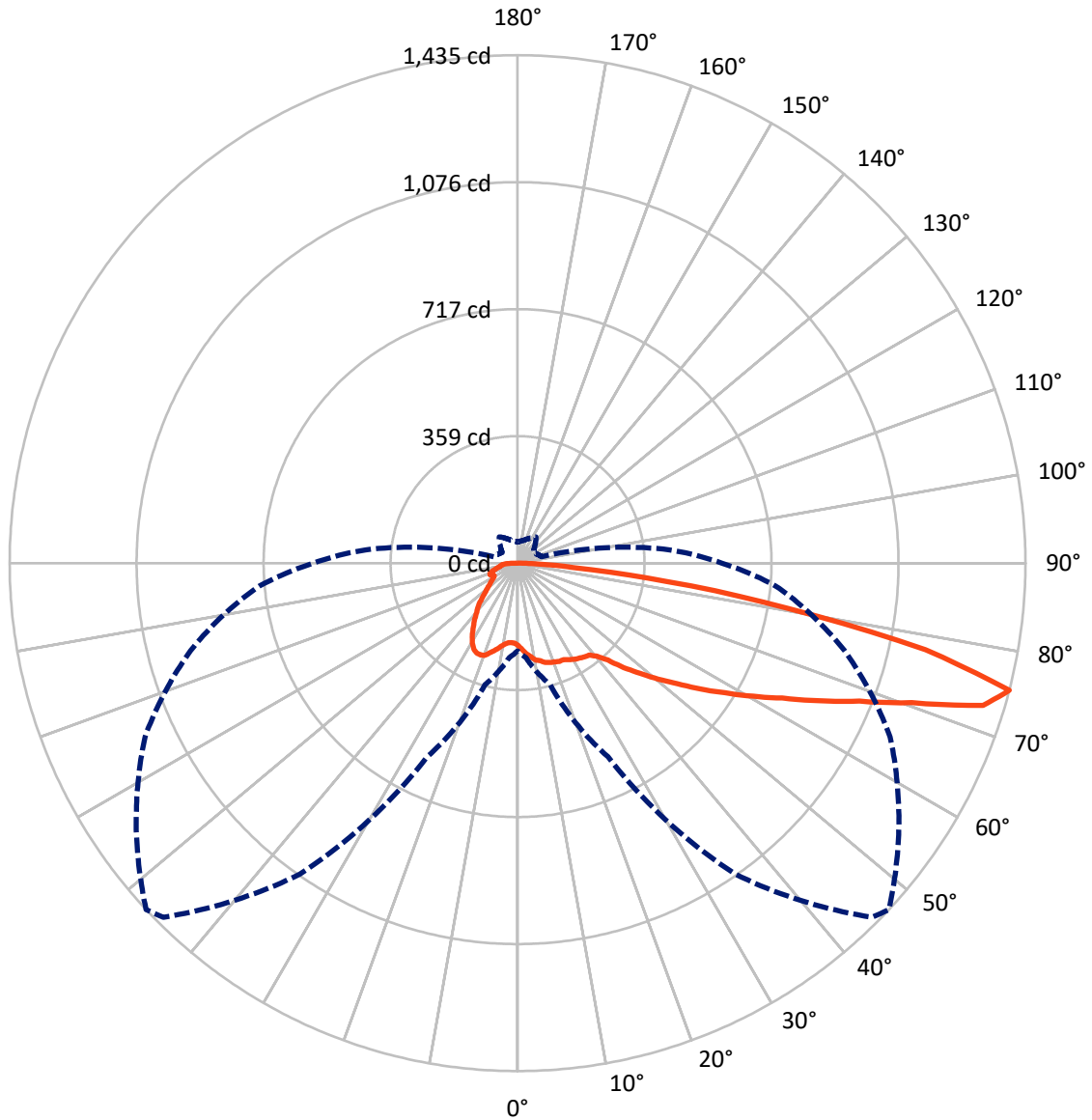
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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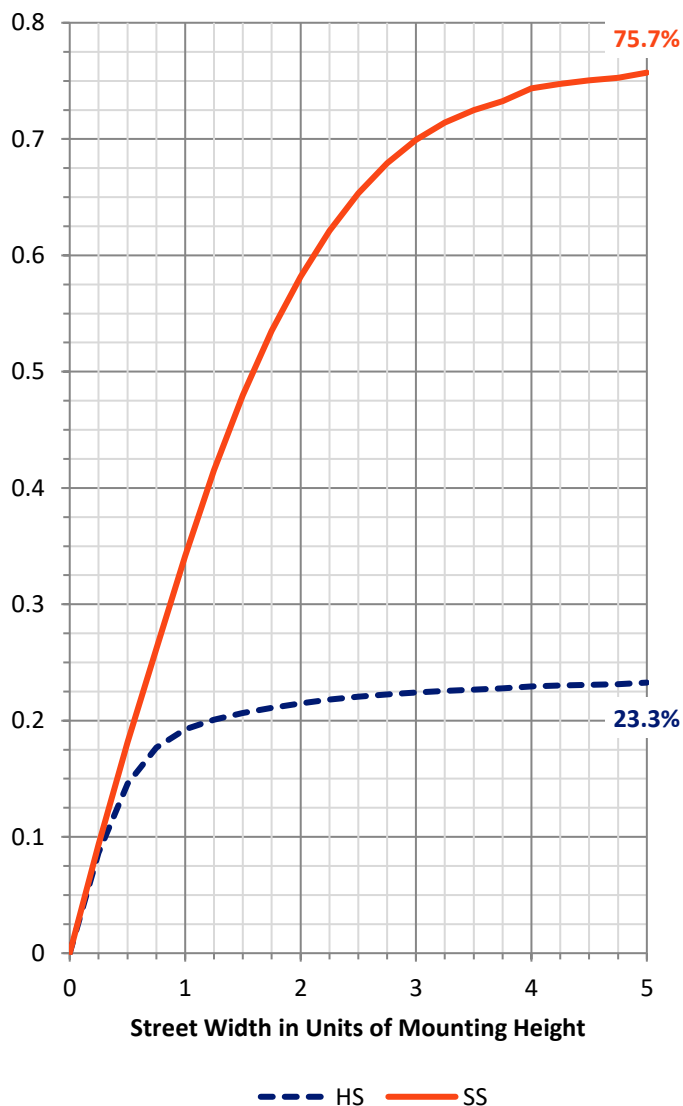
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	524.5	0.0	524.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1668.6	0.0	1668.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	2193.1	0.0	2193.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	1.1
10°-20°	78.2	3.6
20°-30°	133.9	6.1
30°-40°	187.4	8.5
40°-50°	261.2	11.9
50°-60°	390.4	17.8
60°-70°	562.9	25.7
70°-80°	479.2	21.8
80°-90°	76.3	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°	2193.1	100.0
0°-180°	2193.1	100.0



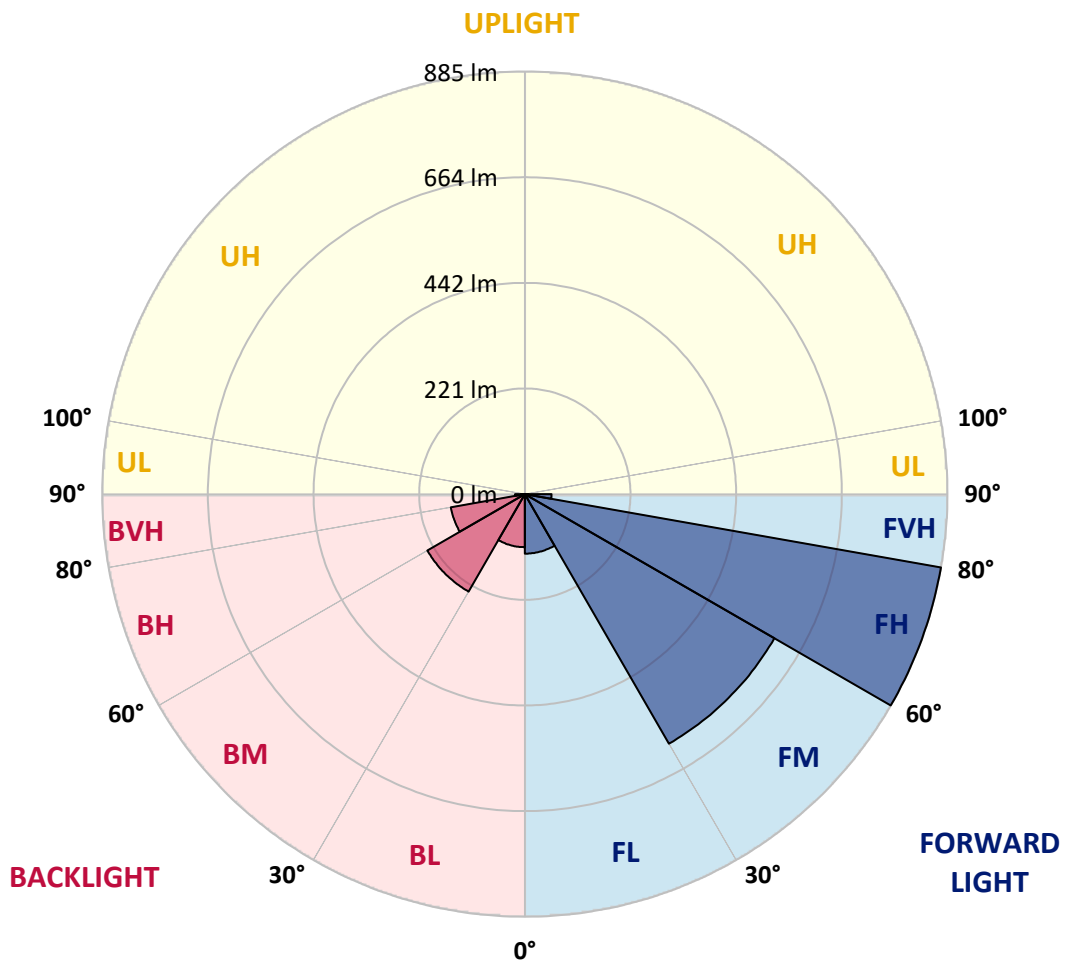
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.6	5.7			
FM (30°-60°)	603.3	27.5			
FH (60°-80°)	884.8	40.3			G1/1800
FVH (80°-90°)	55.9	2.6			G1/100
BL (0°-30°)	111.0	5.1	B1/500		
BM (30°-60°)	235.7	10.7	B1/1000		
BH (60°-80°)	157.3	7.2	B1/500		G1/500
BVH (80°-90°)	20.4	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°	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9
2.5°	249.7	250.5	250.5	248.9	247.3	244.1	244.1	240.9	239.3	235.3	233.7
5°	272.9	270.5	268.1	267.3	263.3	257.7	256.9	253.7	244.9	240.9	235.3
7.5°	289.7	288.9	288.1	284.9	277.7	268.9	266.5	261.7	252.9	244.9	238.5
10°	303.3	306.5	303.3	296.1	288.9	279.3	278.5	269.7	261.7	252.1	244.1
12.5°	318.5	319.3	313.7	304.9	293.7	285.7	282.5	279.3	270.5	262.5	250.5
15°	328.9	327.3	323.3	311.3	298.5	290.5	291.3	287.3	277.7	272.1	259.3
17.5°	328.9	328.9	322.5	313.7	302.5	295.3	295.3	292.9	286.5	278.5	269.7
20°	322.5	322.5	318.5	313.7	300.9	299.3	297.7	296.1	296.1	288.9	276.1
22.5°	314.5	312.9	314.5	306.5	297.7	299.3	301.7	300.9	298.5	292.1	283.3
25°	306.5	307.3	308.9	303.3	295.3	302.5	301.7	305.7	304.1	299.3	292.1
27.5°	305.7	307.3	308.1	302.5	299.3	305.7	308.9	312.9	313.7	308.9	300.1
30°	317.7	316.9	316.1	308.9	306.5	312.1	315.3	320.9	325.7	315.3	308.1
32.5°	348.9	344.1	339.3	320.1	312.9	316.9	320.1	328.1	328.9	323.3	312.9
35°	398.5	395.3	379.3	345.7	325.7	321.7	324.9	330.5	332.1	328.1	320.1
37.5°	455.3	453.7	431.3	390.5	352.1	332.9	329.7	337.7	344.1	335.3	324.1
40°	511.3	504.9	488.9	448.9	385.7	349.7	345.7	349.7	352.1	345.7	338.5
42.5°	561.7	554.5	550.5	510.5	429.7	377.7	374.5	364.9	372.1	364.1	354.5
45°	604.1	602.5	600.9	566.5	480.1	423.3	420.9	396.1	404.1	397.7	384.1
47.5°	634.6	641.8	639.4	620.2	537.7	472.1	464.9	432.9	444.9	438.5	424.9
50°	670.6	674.6	672.2	659.4	591.3	528.1	514.5	481.7	495.3	494.5	487.3
52.5°	702.6	714.6	701.0	700.2	668.2	588.9	565.7	534.5	556.9	565.7	564.9
55°	740.2	749.8	745.8	744.2	737.0	648.2	627.4	589.7	627.4	640.2	651.4
57.5°	772.2	771.4	786.6	805.0	813.8	716.2	691.4	647.4	704.2	718.6	749.8
60°	786.6	800.2	825.8	872.2	897.0	789.0	763.4	728.2	781.8	793.0	850.6
62.5°	796.2	808.2	857.8	936.2	950.6	863.4	839.4	804.2	866.6	874.6	960.2
65°	769.8	781.0	879.4	960.2	1011.4	943.4	937.8	901.0	951.4	956.2	1075.5
67.5°	739.4	751.4	861.0	990.6	1092.3	1049.9	1041.1	997.0	1035.5	1029.9	1163.5
70°	685.8	701.8	813.8	1017.0	1181.9	1198.7	1181.1	1118.7	1122.7	1069.9	1167.5
72.5°	522.5	532.9	637.0	912.2	1223.5	1405.1	1374.7	1249.9	1204.3	1077.9	1030.7
75°	248.1	267.3	355.3	603.3	1072.3	1414.7	1434.7	1314.7	1161.1	956.2	730.6
77.5°	72.0	72.0	108.0	256.1	672.2	1140.3	1177.9	1116.3	957.8	708.2	384.1
80°	39.2	41.6	56.8	90.4	295.3	719.4	773.8	740.2	564.1	280.1	99.2
82.5°	22.4	23.2	37.6	54.4	134.4	391.3	423.3	384.1	214.5	84.8	46.4
85°	12.8	13.6	21.6	36.0	80.0	144.0	156.8	136.0	86.4	56.8	23.2
87.5°	6.4	6.4	10.4	16.8	40.8	40.8	40.0	48.8	52.0	34.4	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°	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9
2.5°	232.9	232.1	232.1	228.9	228.1	225.7	225.7	224.1	223.3	225.7	225.7
5°	233.7	229.7	228.9	225.7	226.5	224.9	228.1	226.5	225.7	225.7	224.9
7.5°	235.3	231.3	228.1	225.7	224.9	227.3	231.3	231.3	236.1	233.7	233.7
10°	239.3	236.9	232.9	231.3	231.3	233.7	238.5	241.7	245.7	245.7	243.3
12.5°	248.9	244.9	240.1	237.7	240.9	243.3	248.1	251.3	256.1	257.7	256.1
15°	256.1	252.1	250.5	248.9	251.3	254.5	258.5	261.7	267.3	268.9	268.1
17.5°	265.7	260.9	260.1	260.9	262.5	264.9	267.3	269.7	273.7	273.7	273.7
20°	270.5	268.9	268.1	270.5	273.7	276.9	275.3	273.7	272.9	274.5	273.7
22.5°	279.3	277.7	278.5	280.9	280.9	279.3	276.9	271.3	269.7	271.3	269.7
25°	287.3	285.7	285.7	284.1	283.3	277.7	272.9	268.1	262.5	264.9	264.1
27.5°	295.3	294.5	294.5	288.1	280.1	270.5	264.1	258.5	255.3	259.3	256.9
30°	304.9	305.7	301.7	286.5	267.3	256.9	249.7	248.9	248.1	250.5	249.7
32.5°	313.7	314.5	308.1	284.1	257.7	237.7	230.5	231.3	235.3	239.3	243.3
35°	318.5	322.5	314.5	276.1	238.5	216.1	208.1	215.3	222.5	228.1	232.1
37.5°	327.3	337.7	324.1	267.3	221.7	196.8	191.2	193.6	202.4	211.3	215.3
40°	340.1	352.1	326.5	250.5	199.2	177.6	174.4	175.2	178.4	184.0	188.0
42.5°	362.5	375.3	328.9	228.9	176.8	165.6	156.8	154.4	152.0	152.0	151.2
45°	395.3	407.3	325.7	201.6	154.4	146.4	140.0	134.4	128.0	117.6	119.2
47.5°	443.3	452.9	328.1	177.6	133.6	127.2	122.4	116.0	106.4	95.2	94.4
50°	516.1	501.7	324.9	152.8	118.4	112.8	108.8	100.0	88.8	80.8	80.0
52.5°	600.9	572.1	321.7	132.0	105.6	100.8	97.6	88.0	77.6	73.6	72.8
55°	703.4	661.8	326.5	113.6	96.0	92.0	88.8	80.0	72.0	68.8	68.0
57.5°	824.2	758.6	352.9	99.2	85.6	84.0	83.2	76.0	68.8	66.4	65.6
60°	937.8	851.4	370.5	88.8	76.0	77.6	79.2	76.0	68.0	66.4	66.4
62.5°	1033.1	928.2	342.5	80.0	71.2	76.0	83.2	80.8	77.6	79.2	77.6
65°	1117.1	954.6	256.1	75.2	68.8	80.0	92.0	91.2	84.0	85.6	84.8
67.5°	1131.5	922.6	167.2	71.2	67.2	88.0	103.2	93.6	79.2	79.2	76.8
70°	1071.5	837.0	112.0	67.2	66.4	88.0	105.6	88.0	74.4	74.4	71.2
72.5°	879.4	669.0	86.4	63.2	60.8	78.4	100.0	83.2	69.6	68.0	62.4
75°	577.7	431.3	70.4	60.0	52.8	68.8	90.4	76.8	66.4	61.6	59.2
77.5°	283.3	193.6	59.2	52.8	45.6	60.0	82.4	72.8	62.4	57.6	56.0
80°	77.6	69.6	49.6	46.4	38.4	52.0	77.6	69.6	58.4	53.6	51.2
82.5°	44.0	43.2	40.0	37.6	32.0	52.0	78.4	69.6	55.2	54.4	46.4
85°	24.0	25.6	28.8	28.0	24.8	46.4	74.4	60.8	44.8	37.6	37.6
87.5°	9.6	12.0	14.4	16.0	16.8	34.4	56.0	46.4	34.4	28.8	28.8
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)