

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: P675321

Luminaire Tested: **CCW-SA-1A-835-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675321
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

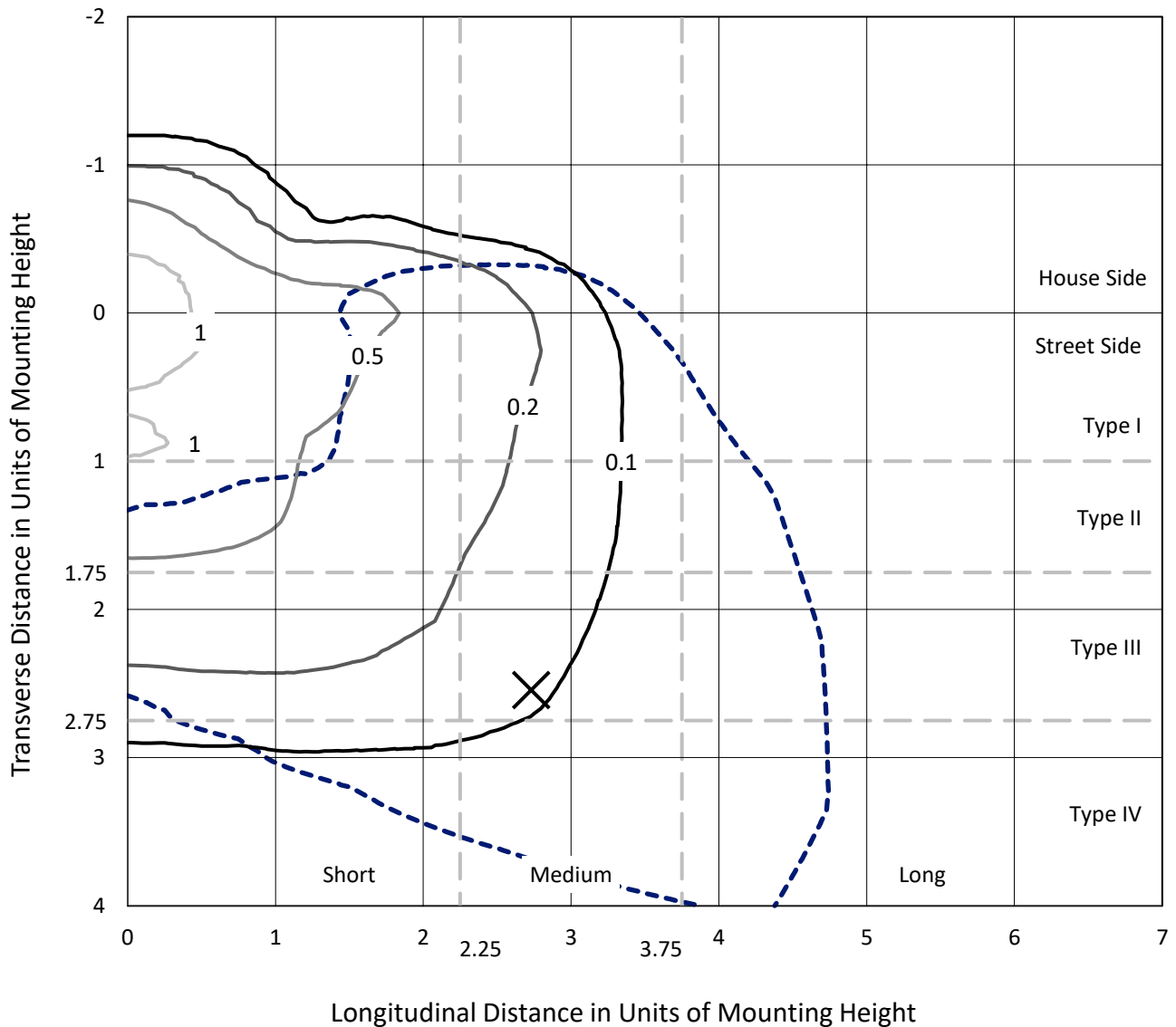
Lumens per Lamp: N/A
Luminaire Lumens: 2274.2 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

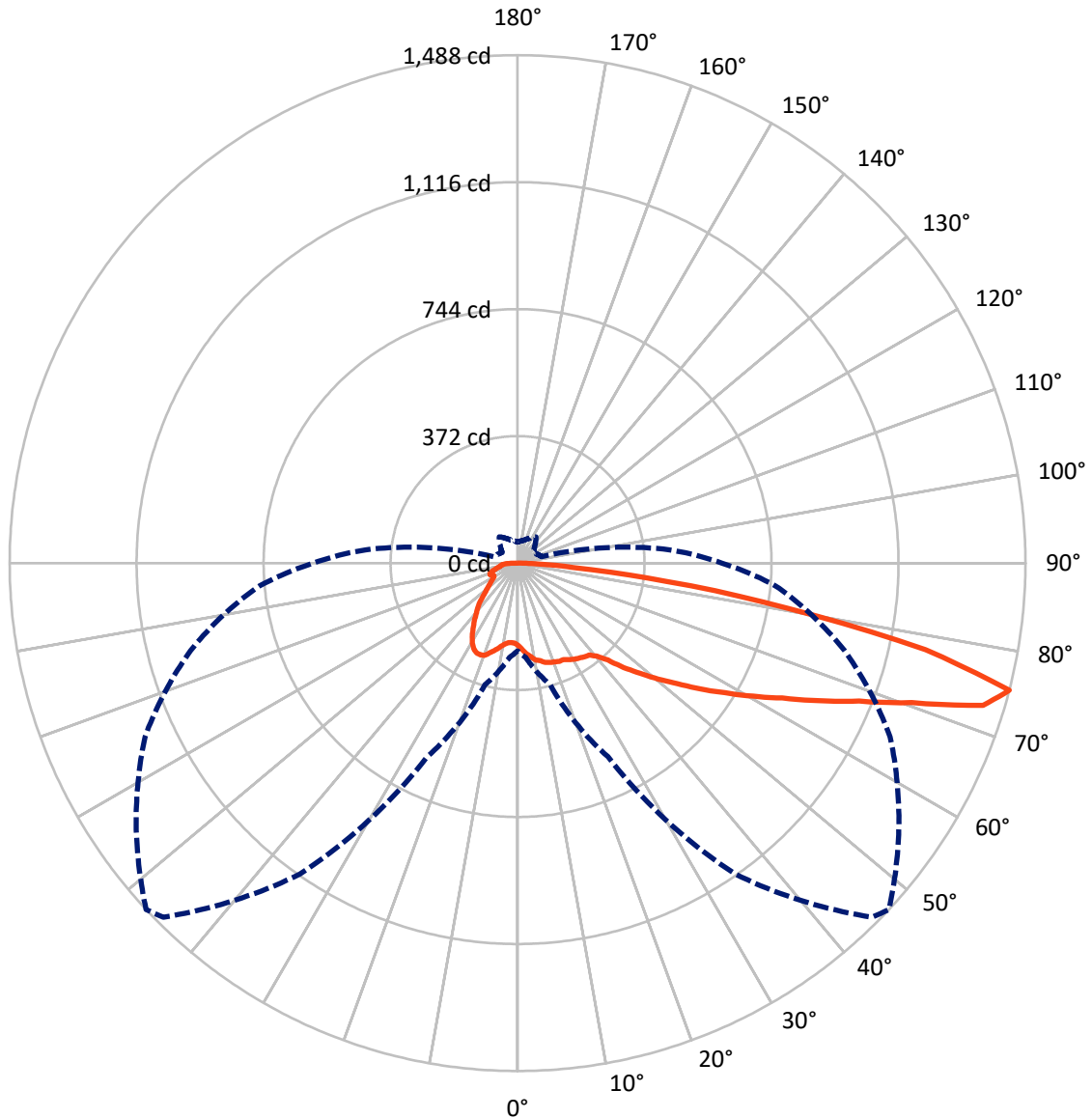
× Max cd
 - - - 1/2 Max cd



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



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

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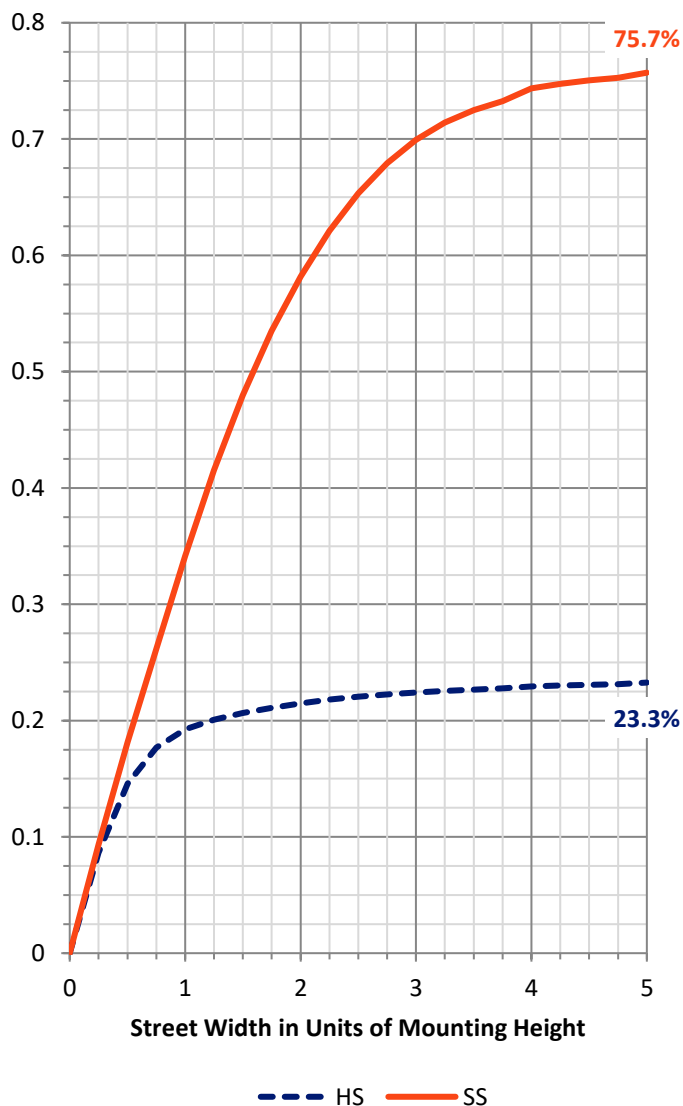
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.9	0.0	543.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	1730.3	0.0	1730.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	2274.2	0.0	2274.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	1.1
10°-20°	81.1	3.6
20°-30°	138.9	6.1
30°-40°	194.3	8.5
40°-50°	270.9	11.9
50°-60°	404.9	17.8
60°-70°	583.8	25.7
70°-80°	496.9	21.8
80°-90°	79.2	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°	2274.2	100.0
0°-180°	2274.2	100.0



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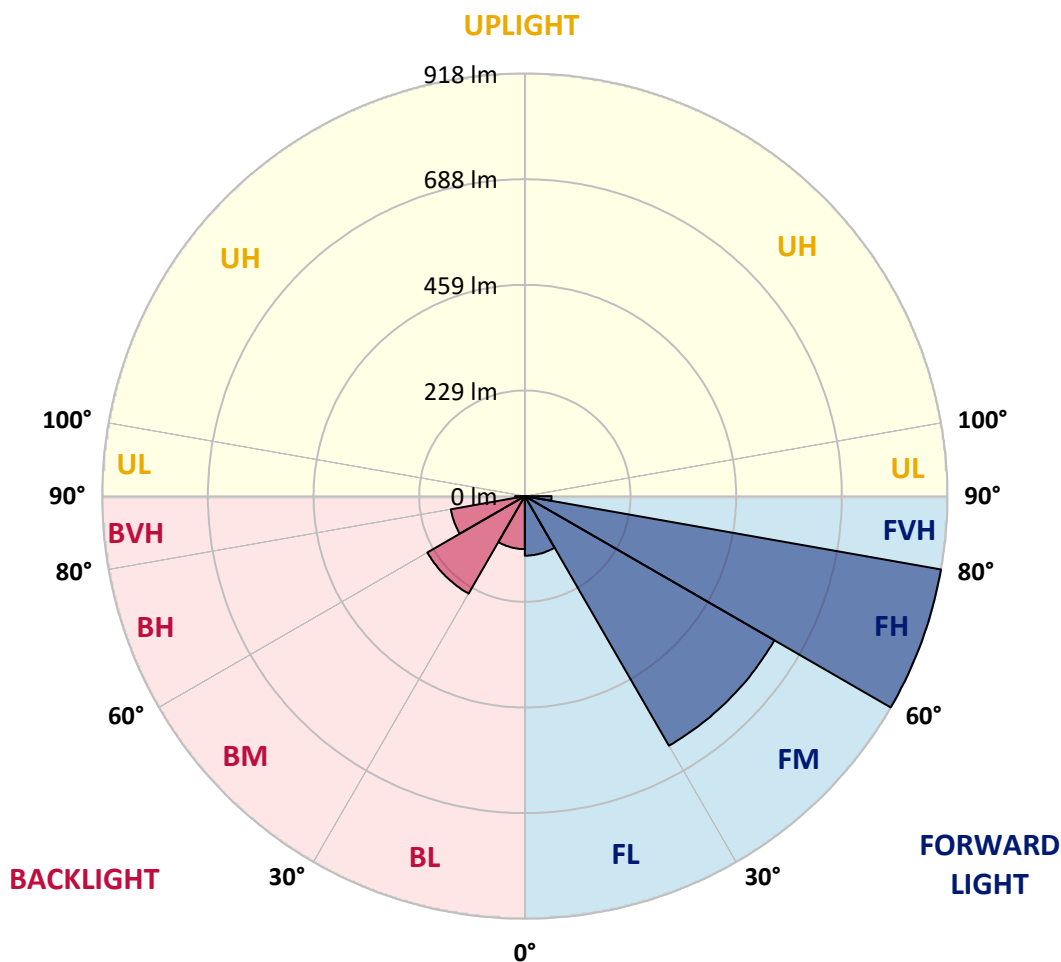
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	129.2	5.7			
FM (30°-60°)	625.6	27.5			
FH (60°-80°)	917.5	40.3			G1/1800
FVH (80°-90°)	58.0	2.6			G1/100
BL (0°-30°)	115.1	5.1	B1/500		
BM (30°-60°)	244.4	10.7	B1/1000		
BH (60°-80°)	163.2	7.2	B1/500		G1/500
BVH (80°-90°)	21.2	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°	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5
2.5°	258.9	259.7	259.7	258.1	256.4	253.1	253.1	249.8	248.1	244.0	242.3
5°	283.0	280.5	278.0	277.2	273.0	267.2	266.4	263.0	253.9	249.8	244.0
7.5°	300.4	299.6	298.7	295.4	287.9	278.8	276.3	271.3	262.2	253.9	247.3
10°	314.5	317.8	314.5	307.0	299.6	289.6	288.8	279.6	271.3	261.4	253.1
12.5°	330.3	331.1	325.3	316.2	304.5	296.2	292.9	289.6	280.5	272.2	259.7
15°	341.0	339.4	335.2	322.8	309.5	301.2	302.0	297.9	287.9	282.1	268.9
17.5°	341.0	341.0	334.4	325.3	313.7	306.2	306.2	303.7	297.1	288.8	279.6
20°	334.4	334.4	330.3	325.3	312.0	310.3	308.7	307.0	307.0	299.6	286.3
22.5°	326.1	324.5	326.1	317.8	308.7	310.3	312.8	312.0	309.5	302.9	293.7
25°	317.8	318.6	320.3	314.5	306.2	313.7	312.8	317.0	315.3	310.3	302.9
27.5°	317.0	318.6	319.5	313.7	310.3	317.0	320.3	324.5	325.3	320.3	311.2
30°	329.4	328.6	327.8	320.3	317.8	323.6	326.9	332.8	337.7	326.9	319.5
32.5°	361.8	356.8	351.8	331.9	324.5	328.6	331.9	340.2	341.0	335.2	324.5
35°	413.2	409.9	393.3	358.5	337.7	333.6	336.9	342.7	344.4	340.2	331.9
37.5°	472.2	470.5	447.3	404.9	365.1	345.2	341.9	350.2	356.8	347.7	336.1
40°	530.2	523.6	507.0	465.5	400.0	362.6	358.5	362.6	365.1	358.5	351.0
42.5°	582.5	575.1	570.9	529.4	445.6	391.7	388.3	378.4	385.9	377.6	367.6
45°	626.5	624.8	623.2	587.5	497.9	439.0	436.5	410.8	419.0	412.4	398.3
47.5°	658.0	665.5	663.0	643.1	557.6	489.6	482.1	448.9	461.4	454.7	440.6
50°	695.4	699.5	697.0	683.8	613.2	547.7	533.6	499.5	513.6	512.8	505.3
52.5°	728.6	741.0	726.9	726.1	692.9	610.7	586.7	554.3	577.5	586.7	585.8
55°	767.6	777.5	773.4	771.7	764.2	672.1	650.6	611.6	650.6	663.8	675.5
57.5°	800.8	799.9	815.7	834.8	843.9	742.7	716.9	671.3	730.2	745.2	777.5
60°	815.7	829.8	856.4	904.5	930.2	818.2	791.6	755.1	810.7	822.3	882.1
62.5°	825.7	838.1	889.5	970.9	985.8	895.4	870.5	834.0	898.7	907.0	995.8
65°	798.3	809.9	912.0	995.8	1048.9	978.3	972.5	934.4	986.6	991.6	1115.3
67.5°	766.7	779.2	892.9	1027.3	1132.7	1088.7	1079.6	1033.9	1073.8	1068.0	1206.5
70°	711.1	727.7	843.9	1054.7	1225.6	1243.0	1224.8	1160.1	1164.2	1109.4	1210.7
72.5°	541.9	552.6	660.5	946.0	1268.8	1457.1	1425.6	1296.2	1248.9	1117.7	1068.8
75°	257.2	277.2	368.4	625.7	1111.9	1467.1	1487.8	1363.4	1204.0	991.6	757.6
77.5°	74.7	74.7	112.0	265.5	697.0	1182.5	1221.5	1157.6	993.3	734.4	398.3
80°	40.7	43.1	58.9	93.8	306.2	746.0	802.4	767.6	585.0	290.4	102.9
82.5°	23.2	24.1	39.0	56.4	139.4	405.8	439.0	398.3	222.4	88.0	48.1
85°	13.3	14.1	22.4	37.3	83.0	149.4	162.6	141.1	89.6	58.9	24.1
87.5°	6.6	6.6	10.8	17.4	42.3	42.3	41.5	50.6	53.9	35.7	10.8
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°	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5	241.5
2.5°	241.5	240.6	240.6	237.3	236.5	234.0	234.0	232.3	231.5	234.0	234.0
5°	242.3	238.2	237.3	234.0	234.8	233.2	236.5	234.8	234.0	234.0	233.2
7.5°	244.0	239.8	236.5	234.0	233.2	235.7	239.8	239.8	244.8	242.3	242.3
10°	248.1	245.6	241.5	239.8	239.8	242.3	247.3	250.6	254.7	254.7	252.3
12.5°	258.1	253.9	248.9	246.5	249.8	252.3	257.2	260.6	265.5	267.2	265.5
15°	265.5	261.4	259.7	258.1	260.6	263.9	268.0	271.3	277.2	278.8	278.0
17.5°	275.5	270.5	269.7	270.5	272.2	274.7	277.2	279.6	283.8	283.8	283.8
20°	280.5	278.8	278.0	280.5	283.8	287.1	285.5	283.8	283.0	284.6	283.8
22.5°	289.6	287.9	288.8	291.3	291.3	289.6	287.1	281.3	279.6	281.3	279.6
25°	297.9	296.2	296.2	294.6	293.7	287.9	283.0	278.0	272.2	274.7	273.8
27.5°	306.2	305.4	305.4	298.7	290.4	280.5	273.8	268.0	264.7	268.9	266.4
30°	316.2	317.0	312.8	297.1	277.2	266.4	258.9	258.1	257.2	259.7	258.9
32.5°	325.3	326.1	319.5	294.6	267.2	246.5	239.0	239.8	244.0	248.1	252.3
35°	330.3	334.4	326.1	286.3	247.3	224.0	215.7	223.2	230.7	236.5	240.6
37.5°	339.4	350.2	336.1	277.2	229.9	204.1	198.3	200.8	209.9	219.1	223.2
40°	352.7	365.1	338.6	259.7	206.6	184.2	180.9	181.7	185.0	190.9	195.0
42.5°	375.9	389.2	341.0	237.3	183.4	171.8	162.6	160.2	157.7	157.7	156.8
45°	409.9	422.4	337.7	209.1	160.2	151.9	145.2	139.4	132.8	122.0	123.6
47.5°	459.7	469.7	340.2	184.2	138.6	131.9	127.0	120.3	110.4	98.7	97.9
50°	535.2	520.3	336.9	158.5	122.8	117.0	112.9	103.7	92.1	83.8	83.0
52.5°	623.2	593.3	333.6	136.9	109.5	104.6	101.2	91.3	80.5	76.3	75.5
55°	729.4	686.2	338.6	117.8	99.6	95.4	92.1	83.0	74.7	71.4	70.5
57.5°	854.7	786.7	365.9	102.9	88.8	87.1	86.3	78.8	71.4	68.9	68.0
60°	972.5	882.9	384.2	92.1	78.8	80.5	82.2	78.8	70.5	68.9	68.9
62.5°	1071.3	962.6	355.2	83.0	73.9	78.8	86.3	83.8	80.5	82.2	80.5
65°	1158.4	990.0	265.5	78.0	71.4	83.0	95.4	94.6	87.1	88.8	88.0
67.5°	1173.3	956.8	173.4	73.9	69.7	91.3	107.0	97.1	82.2	82.2	79.7
70°	1111.1	868.0	116.2	69.7	68.9	91.3	109.5	91.3	77.2	77.2	73.9
72.5°	912.0	693.7	89.6	65.6	63.1	81.3	103.7	86.3	72.2	70.5	64.7
75°	599.1	447.3	73.0	62.2	54.8	71.4	93.8	79.7	68.9	63.9	61.4
77.5°	293.7	200.8	61.4	54.8	47.3	62.2	85.5	75.5	64.7	59.7	58.1
80°	80.5	72.2	51.4	48.1	39.8	53.9	80.5	72.2	60.6	55.6	53.1
82.5°	45.6	44.8	41.5	39.0	33.2	53.9	81.3	72.2	57.3	56.4	48.1
85°	24.9	26.6	29.9	29.0	25.7	48.1	77.2	63.1	46.5	39.0	39.0
87.5°	10.0	12.4	14.9	16.6	17.4	35.7	58.1	48.1	35.7	29.9	29.9
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)