

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: P675022

Luminaire Tested: **CCW-SA-1A-830-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675022
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-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T3 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

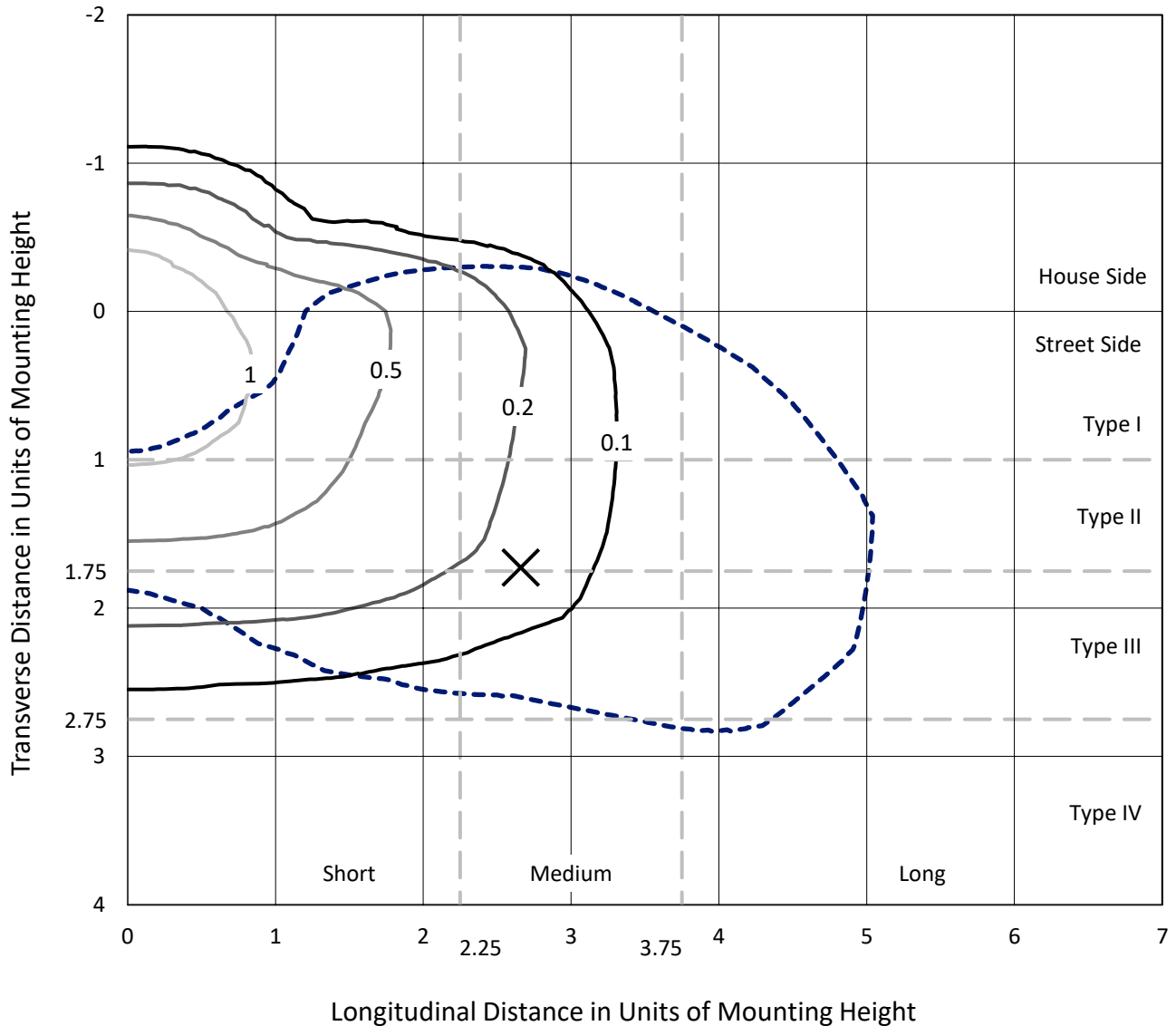
Lumens per Lamp: N/A
Luminaire Lumens: 2196.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

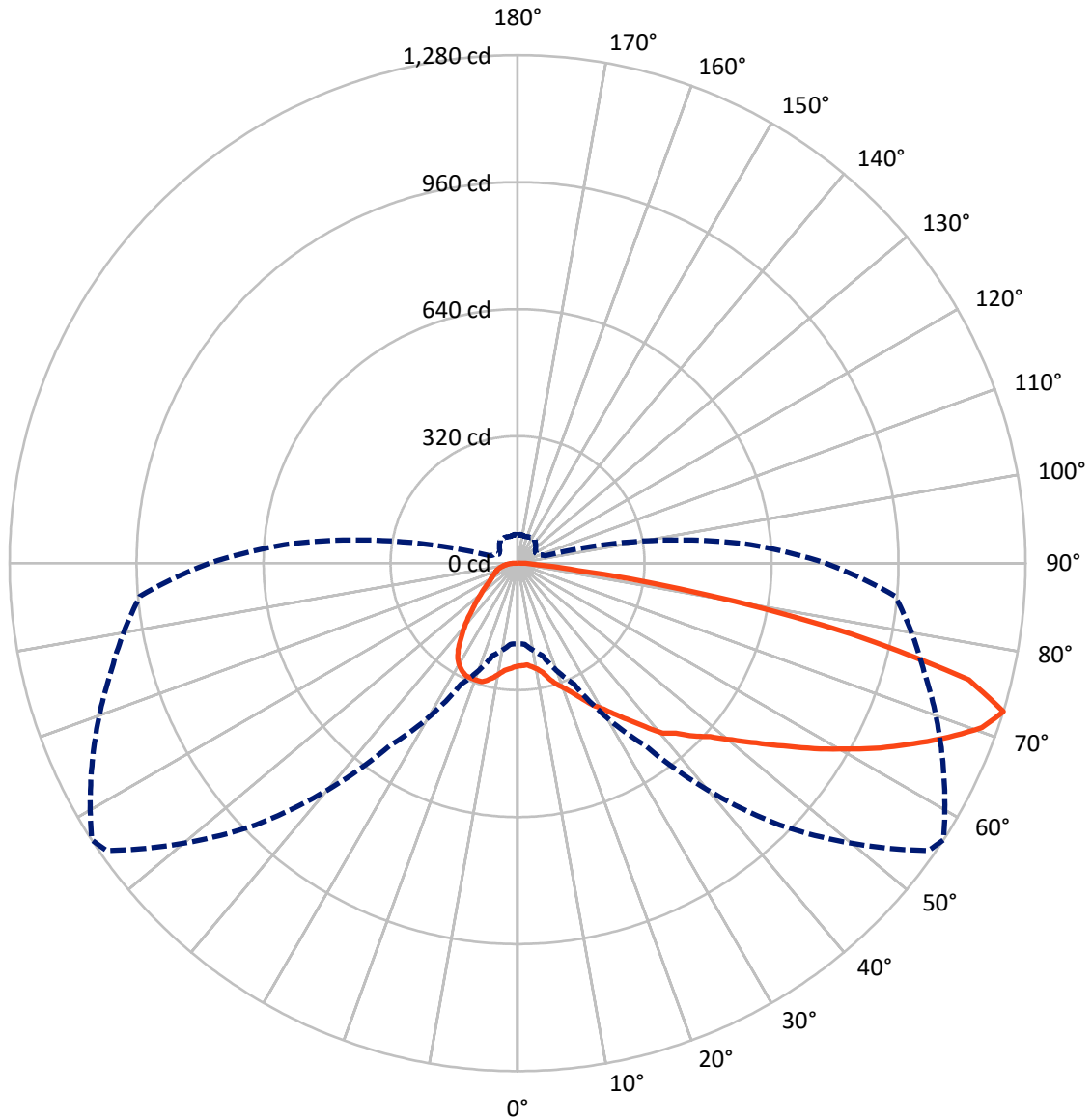
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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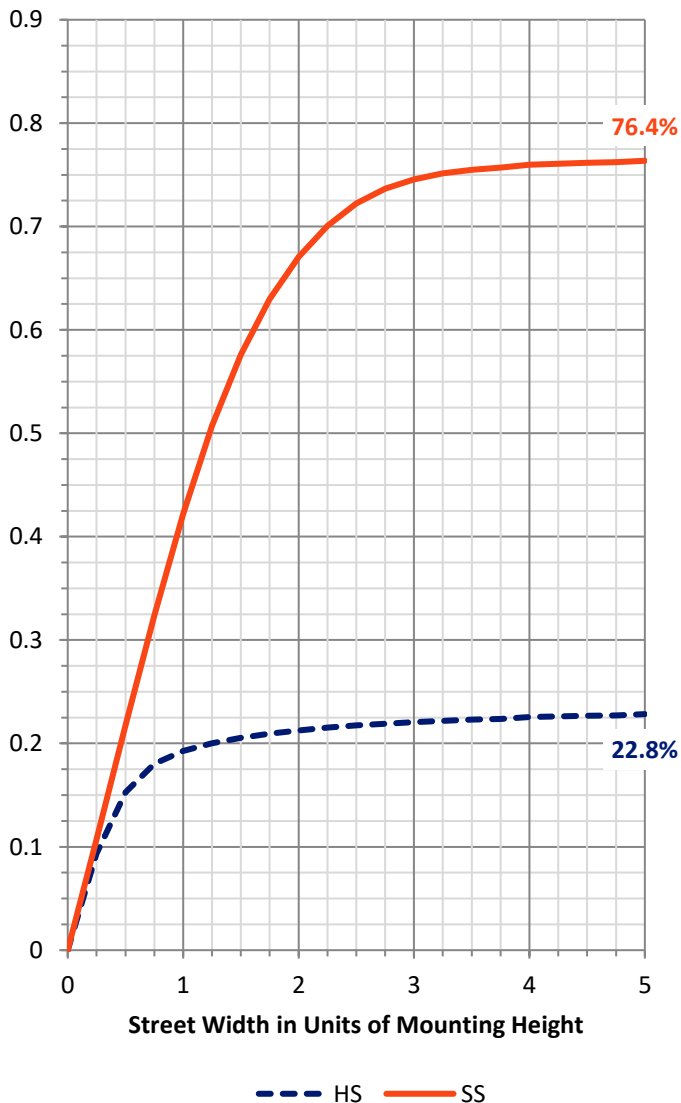
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.9	0.0	512.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	1683.5	0.0	1683.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	2196.4	0.0	2196.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	1.2
10°-20°	86.7	3.9
20°-30°	158.6	7.2
30°-40°	232.6	10.6
40°-50°	320.2	14.6
50°-60°	439.2	20.0
60°-70°	529.4	24.1
70°-80°	352.6	16.1
80°-90°	51.4	2.3
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°	2196.4	100.0
0°-180°	2196.4	100.0



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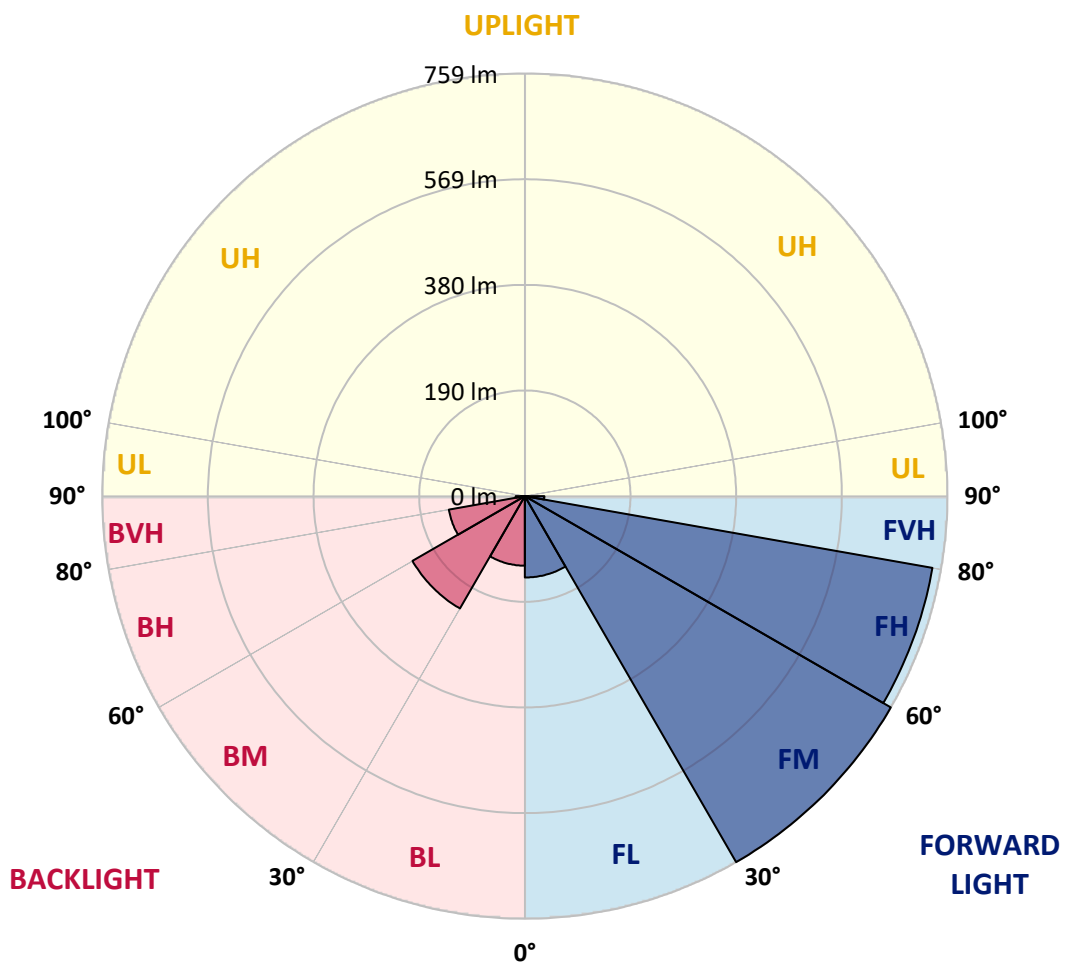
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.1	6.7			
FM (30°-60°)	759.0	34.6			
FH (60°-80°)	743.4	33.8			G1/1800
FVH (80°-90°)	35.0	1.6			G1/100
BL (0°-30°)	124.9	5.7	B1/500		
BM (30°-60°)	233.0	10.6	B1/1000		
BH (60°-80°)	138.7	6.3	B1/500		G1/500
BVH (80°-90°)	16.4	0.7			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°	57°	65°	75°	85°
0°	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3
2.5°	254.5	255.3	256.9	256.1	256.1	253.7	257.7	258.5	256.9	257.7	259.3
5°	254.5	256.1	258.5	256.9	257.7	256.9	255.3	257.7	257.7	258.5	260.9
7.5°	268.1	267.3	267.3	264.9	264.1	263.3	264.1	264.1	262.5	263.3	263.3
10°	283.3	283.3	281.7	281.7	280.1	276.1	272.1	271.3	268.9	269.7	269.7
12.5°	299.3	300.9	302.5	297.7	296.1	289.7	287.3	282.5	282.5	280.9	280.1
15°	319.3	316.9	318.5	316.9	312.9	306.5	302.5	303.3	297.7	296.1	293.7
17.5°	336.9	337.7	335.3	333.7	326.5	321.7	322.5	321.7	314.5	312.1	308.1
20°	357.7	356.9	356.9	352.1	345.7	339.3	336.9	336.1	337.7	332.9	323.3
22.5°	379.3	376.1	376.1	372.1	363.3	359.3	357.7	354.5	356.1	352.1	337.7
25°	396.9	396.9	402.5	394.5	389.7	381.7	378.5	379.3	380.1	372.1	355.3
27.5°	420.1	416.1	421.7	417.7	415.3	406.5	402.5	404.9	403.3	394.5	371.3
30°	449.7	450.5	447.3	441.7	438.5	432.1	429.7	427.3	429.7	418.5	388.9
32.5°	486.5	488.9	480.9	474.5	468.9	462.5	457.7	455.3	457.7	440.9	402.5
35°	528.9	531.3	524.9	517.7	511.3	495.3	491.3	487.3	478.5	451.3	415.3
37.5°	568.1	564.9	563.3	563.3	551.3	528.1	525.7	523.3	506.5	472.1	432.9
40°	594.5	598.5	596.9	595.3	593.7	572.1	567.3	563.3	535.3	503.3	457.7
42.5°	624.1	621.7	628.1	630.5	624.9	618.5	599.3	585.7	560.9	535.3	494.5
45°	659.3	657.7	660.1	668.9	660.9	663.3	631.3	621.7	590.5	575.3	540.9
47.5°	690.5	694.5	706.5	708.9	702.5	713.7	668.9	653.7	633.7	621.7	588.9
50°	704.1	708.9	736.1	752.9	753.7	771.4	706.5	700.1	672.9	677.7	648.9
52.5°	692.9	708.1	740.9	785.0	812.2	829.8	756.2	752.9	728.1	743.3	714.5
55°	703.3	717.7	739.3	801.0	869.8	873.8	825.0	813.0	788.2	809.0	782.6
57.5°	708.1	700.1	740.9	818.6	912.2	922.6	890.6	881.8	862.6	882.6	867.4
60°	670.5	680.1	718.5	813.8	914.6	974.6	964.2	951.4	933.8	952.2	943.4
62.5°	628.1	634.5	676.1	785.0	928.2	1012.2	1035.4	1025.8	1001.0	1017.0	1032.2
65°	574.5	575.3	621.7	733.7	901.8	1033.8	1097.8	1097.0	1079.4	1075.4	1099.4
67.5°	508.9	515.3	552.1	679.3	865.8	1057.8	1159.4	1171.4	1136.2	1105.0	1113.8
70°	390.5	396.9	432.1	556.9	792.2	1050.6	1235.4	1241.8	1173.0	1093.8	1071.4
72.5°	203.2	204.8	240.8	336.1	561.7	933.0	1263.5	1280.3	1182.6	1061.0	955.4
75°	67.2	67.2	82.4	128.0	264.9	596.9	1144.2	1174.6	1135.4	979.4	781.8
77.5°	40.0	40.8	48.8	64.0	105.6	238.4	806.6	860.2	929.0	833.0	571.3
80°	28.8	29.6	36.8	44.0	63.2	76.8	404.9	479.3	570.5	536.1	304.9
82.5°	21.6	21.6	28.8	32.8	43.2	45.6	112.8	154.4	246.4	192.0	84.0
85°	22.4	22.4	22.4	23.2	29.6	26.4	47.2	50.4	72.0	63.2	23.2
87.5°	8.0	8.8	22.4	15.2	15.2	11.2	18.4	20.0	25.6	26.4	8.8
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°	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3	259.3
2.5°	260.1	260.1	260.9	260.9	262.5	264.1	266.5	264.9	264.9	265.7	264.9
5°	259.3	260.1	262.5	266.5	268.1	268.9	273.7	273.7	273.7	275.3	275.3
7.5°	262.5	264.1	268.1	272.1	272.9	275.3	281.7	283.3	287.3	288.9	289.7
10°	270.5	272.9	276.1	280.9	284.1	287.3	292.1	297.7	296.9	301.7	302.5
12.5°	282.5	281.7	287.3	292.1	295.3	300.1	301.7	301.7	301.7	301.7	303.3
15°	292.1	293.7	298.5	301.7	305.7	304.9	301.7	298.5	299.3	298.5	298.5
17.5°	306.5	306.5	310.5	311.3	312.9	304.9	300.1	300.1	302.5	302.5	300.9
20°	320.9	320.1	321.7	320.9	310.5	300.9	300.1	300.9	301.7	300.9	300.1
22.5°	334.5	332.9	330.5	327.3	308.9	300.1	298.5	294.5	290.5	290.5	288.1
25°	346.5	344.9	338.5	328.9	308.1	295.3	287.3	277.7	272.9	270.5	273.7
27.5°	357.7	354.5	345.7	328.9	300.9	282.5	267.3	255.3	251.2	248.0	251.2
30°	372.9	367.3	355.3	326.5	289.7	262.5	241.6	227.2	223.2	218.4	220.0
32.5°	386.5	373.7	363.3	319.3	275.3	240.0	216.0	201.6	194.4	190.4	193.6
35°	400.9	388.1	366.5	308.1	252.9	212.8	188.8	175.2	169.6	164.0	164.0
37.5°	415.3	408.1	371.3	287.3	225.6	187.2	165.6	155.2	145.6	135.2	135.2
40°	445.7	436.1	376.9	263.3	198.4	162.4	147.2	133.6	124.0	109.6	108.8
42.5°	477.7	456.9	376.9	234.4	174.4	144.8	130.4	116.0	98.4	89.6	90.4
45°	518.5	494.5	366.5	208.8	150.4	130.4	114.4	96.0	88.0	82.4	82.4
47.5°	569.7	532.1	353.7	180.8	131.2	117.6	97.6	86.4	80.8	76.0	75.2
50°	630.5	566.5	337.7	156.8	115.2	105.6	88.8	80.0	75.2	72.0	72.0
52.5°	694.5	616.9	326.5	135.2	102.4	89.6	82.4	76.8	72.8	70.4	69.6
55°	759.4	667.3	318.5	112.0	90.4	82.4	80.8	76.0	74.4	72.0	70.4
57.5°	832.2	708.9	316.9	96.0	80.8	79.2	82.4	78.4	76.0	73.6	71.2
60°	910.6	765.0	302.5	83.2	76.0	77.6	80.0	76.0	74.4	72.0	70.4
62.5°	988.2	806.6	263.3	73.6	71.2	72.8	76.0	72.8	70.4	71.2	72.0
65°	1020.2	809.8	204.0	66.4	65.6	66.4	71.2	70.4	68.0	72.8	72.8
67.5°	988.2	781.0	144.0	60.0	60.0	64.0	72.0	73.6	71.2	77.6	76.8
70°	915.4	709.7	97.6	56.0	57.6	68.0	74.4	72.8	69.6	77.6	76.0
72.5°	777.0	568.1	71.2	52.0	54.4	64.8	73.6	72.0	69.6	72.8	69.6
75°	583.3	404.1	56.0	47.2	48.0	58.4	76.0	72.0	65.6	64.0	61.6
77.5°	389.7	249.6	43.2	41.6	41.6	51.2	72.8	67.2	59.2	56.8	56.0
80°	185.6	100.0	34.4	35.2	36.0	44.0	66.4	60.0	53.6	50.4	50.4
82.5°	59.2	37.6	28.8	28.8	28.8	36.0	55.2	50.4	46.4	44.0	40.0
85°	20.8	20.8	24.8	25.6	23.2	26.4	45.6	43.2	38.4	32.0	31.2
87.5°	8.0	12.0	16.8	20.0	14.4	18.4	32.8	30.4	28.0	20.8	20.0
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)