

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: P675044

Luminaire Tested: **CCW-SA-1A-840-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675044  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-840-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T3 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

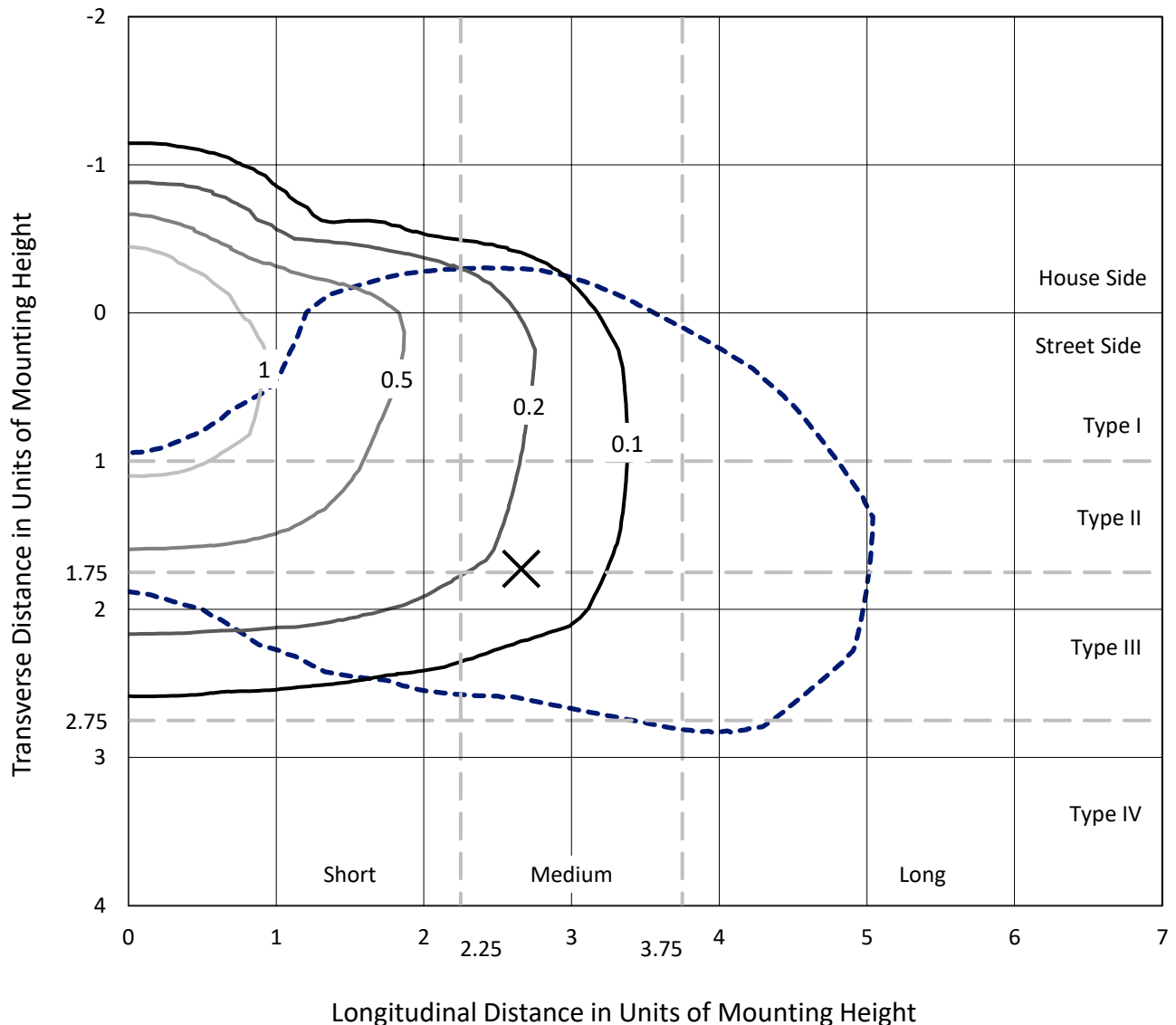
Lumens per Lamp: N/A  
Luminaire Lumens: 2356.8 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (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

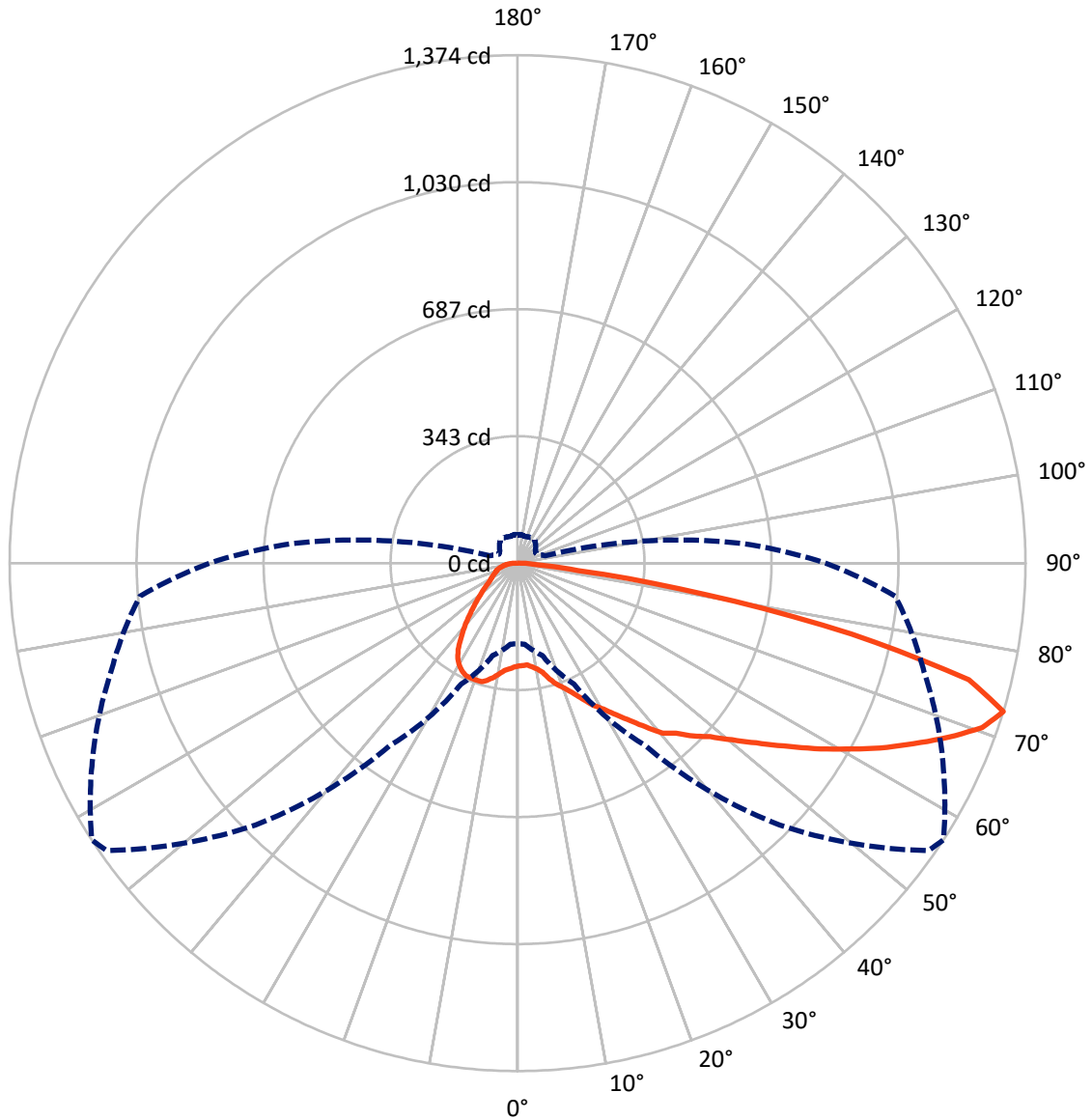
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type 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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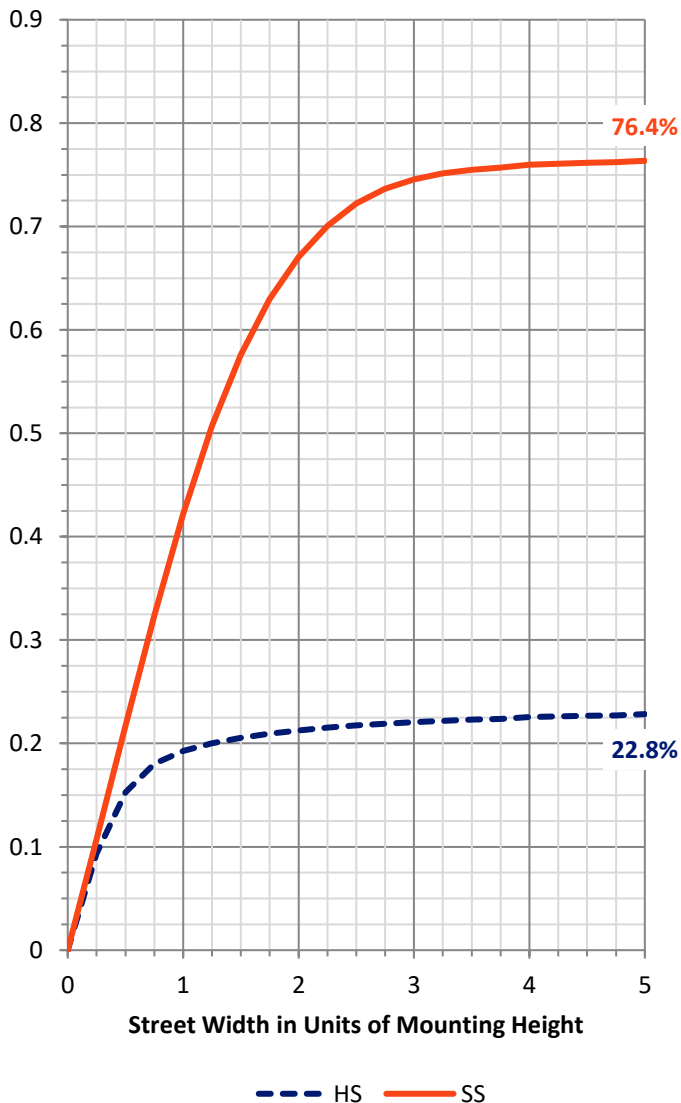
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	550.4	0.0	550.4
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	1806.4	0.0	1806.4
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2356.8	0.0	2356.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	1.2
10°-20°	93.1	3.9
20°-30°	170.1	7.2
30°-40°	249.6	10.6
40°-50°	343.6	14.6
50°-60°	471.2	20.0
60°-70°	568.0	24.1
70°-80°	378.4	16.1
80°-90°	55.1	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°	2356.8	100.0
0°-180°	2356.8	100.0



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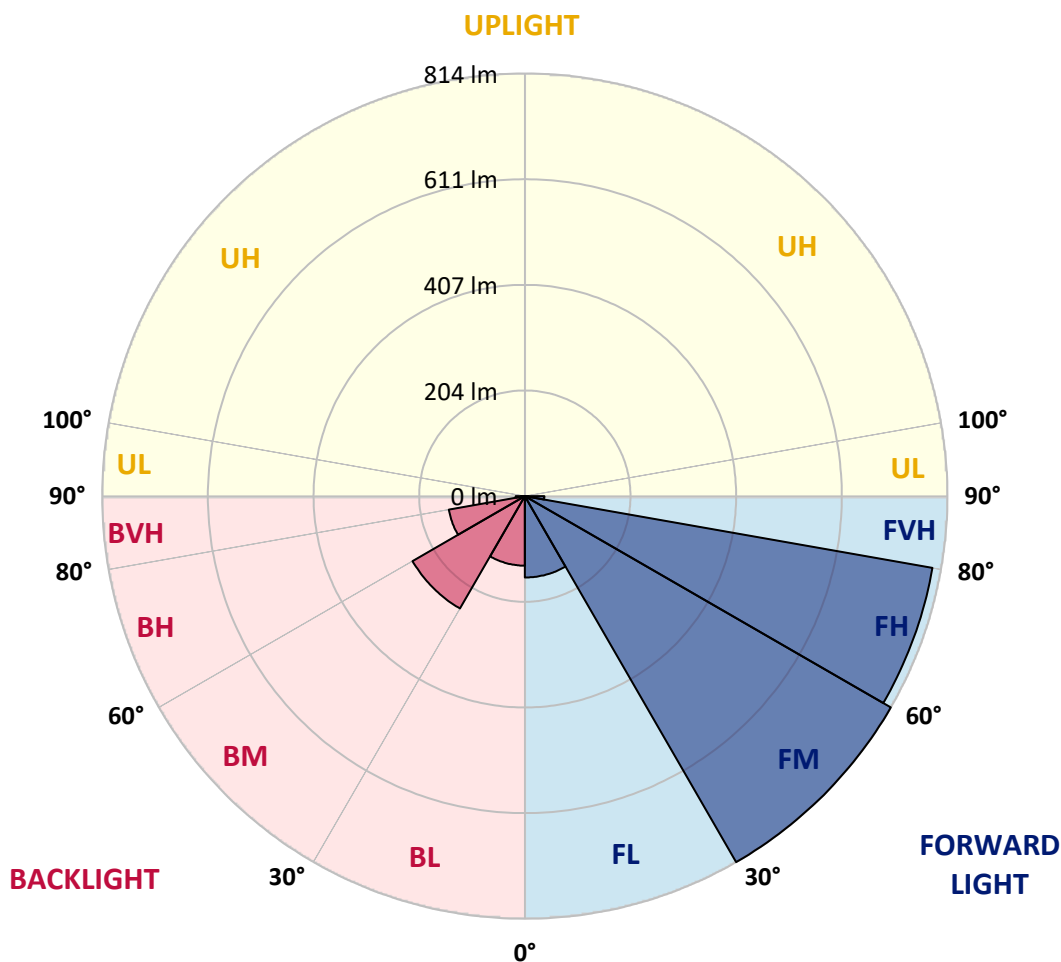
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.8	6.7			
FM (30°-60°)	814.5	34.6			
FH (60°-80°)	797.6	33.8			G1/1800
FVH (80°-90°)	37.5	1.6			G1/100
BL (0°-30°)	134.0	5.7	B1/500		
BM (30°-60°)	250.0	10.6	B1/1000		
BH (60°-80°)	148.8	6.3	B1/500		G1/500
BVH (80°-90°)	17.6	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°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	273.0	273.9	275.6	274.7	274.7	272.2	276.5	277.3	275.6	276.5	278.2
5°	273.0	274.7	277.3	275.6	276.5	275.6	273.9	276.5	276.5	277.3	279.9
7.5°	287.6	286.8	286.8	284.2	283.3	282.5	283.3	283.3	281.6	282.5	282.5
10°	303.9	303.9	302.2	302.2	300.5	296.2	291.9	291.1	288.5	289.3	289.3
12.5°	321.1	322.8	324.5	319.4	317.7	310.8	308.2	303.1	303.1	301.4	300.5
15°	342.6	340.0	341.7	340.0	335.7	328.8	324.5	325.4	319.4	317.7	315.1
17.5°	361.5	362.3	359.7	358.0	350.3	345.1	346.0	345.1	337.4	334.8	330.5
20°	383.8	382.9	382.9	377.8	370.9	364.0	361.5	360.6	362.3	357.2	346.9
22.5°	407.0	403.5	403.5	399.2	389.8	385.5	383.8	380.3	382.1	377.8	362.3
25°	425.8	425.8	431.9	423.3	418.1	409.5	406.1	407.0	407.8	399.2	381.2
27.5°	450.7	446.5	452.5	448.2	445.6	436.2	431.9	434.4	432.7	423.3	398.4
30°	482.5	483.4	479.9	473.9	470.5	463.6	461.0	458.5	461.0	449.0	417.3
32.5°	522.0	524.6	516.0	509.1	503.1	496.3	491.1	488.5	491.1	473.1	431.9
35°	567.5	570.1	563.2	555.5	548.6	531.5	527.2	522.9	513.4	484.2	445.6
37.5°	609.6	606.1	604.4	604.4	591.6	566.7	564.1	561.5	543.5	506.6	464.5
40°	637.9	642.2	640.5	638.8	637.1	613.9	608.7	604.4	574.4	540.0	491.1
42.5°	669.7	667.1	674.0	676.5	670.5	663.7	643.1	628.5	601.9	574.4	530.6
45°	707.5	705.7	708.3	717.8	709.2	711.8	677.4	667.1	633.6	617.3	580.4
47.5°	740.9	745.2	758.1	760.7	753.8	765.8	717.8	701.4	680.0	667.1	631.9
50°	755.5	760.7	789.9	807.9	808.8	827.7	758.1	751.2	722.1	727.2	696.3
52.5°	743.5	759.8	795.0	842.3	871.4	890.3	811.3	807.9	781.3	797.6	766.7
55°	754.7	770.1	793.3	859.4	933.3	937.6	885.2	872.3	845.7	868.0	839.7
57.5°	759.8	751.2	795.0	878.3	978.8	989.9	955.6	946.1	925.5	947.0	930.7
60°	719.5	729.8	771.0	873.2	981.3	1045.7	1034.6	1020.8	1001.9	1021.7	1012.2
62.5°	674.0	680.8	725.5	842.3	995.9	1086.1	1111.0	1100.7	1074.1	1091.2	1107.5
65°	616.4	617.3	667.1	787.3	967.6	1109.3	1178.0	1177.1	1158.2	1153.9	1179.7
67.5°	546.0	552.9	592.4	728.9	929.0	1135.0	1244.1	1256.9	1219.2	1185.7	1195.1
70°	419.0	425.8	463.6	597.6	850.0	1127.3	1325.6	1332.5	1258.7	1173.7	1149.6
72.5°	218.1	219.8	258.4	360.6	602.7	1001.1	1355.7	1373.7	1269.0	1138.5	1025.1
75°	72.1	72.1	88.4	137.4	284.2	640.5	1227.7	1260.4	1218.3	1050.9	838.8
77.5°	42.9	43.8	52.4	68.7	113.3	255.9	865.4	923.0	996.8	893.8	613.0
80°	30.9	31.8	39.5	47.2	67.8	82.4	434.4	514.3	612.2	575.2	327.1
82.5°	23.2	23.2	30.9	35.2	46.4	48.9	121.1	165.7	264.4	206.1	90.1
85°	24.0	24.0	24.0	24.9	31.8	28.3	50.7	54.1	77.3	67.8	24.9
87.5°	8.6	9.4	24.0	16.3	16.3	12.0	19.7	21.5	27.5	28.3	9.4
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°	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2	278.2
2.5°	279.0	279.0	279.9	279.9	281.6	283.3	285.9	284.2	284.2	285.0	284.2
5°	278.2	279.0	281.6	285.9	287.6	288.5	293.6	293.6	293.6	295.3	295.3
7.5°	281.6	283.3	287.6	291.9	292.8	295.3	302.2	303.9	308.2	309.9	310.8
10°	290.2	292.8	296.2	301.4	304.8	308.2	313.4	319.4	318.5	323.7	324.5
12.5°	303.1	302.2	308.2	313.4	316.8	322.0	323.7	323.7	323.7	323.7	325.4
15°	313.4	315.1	320.2	323.7	328.0	327.1	323.7	320.2	321.1	320.2	320.2
17.5°	328.8	328.8	333.1	334.0	335.7	327.1	322.0	322.0	324.5	324.5	322.8
20°	344.3	343.4	345.1	344.3	333.1	322.8	322.0	322.8	323.7	322.8	322.0
22.5°	358.9	357.2	354.6	351.2	331.4	322.0	320.2	316.0	311.7	311.7	309.1
25°	371.8	370.0	363.2	352.9	330.5	316.8	308.2	297.9	292.8	290.2	293.6
27.5°	383.8	380.3	370.9	352.9	322.8	303.1	286.8	273.9	269.6	266.2	269.6
30°	400.1	394.1	381.2	350.3	310.8	281.6	259.3	243.8	239.5	234.4	236.1
32.5°	414.7	400.9	389.8	342.6	295.3	257.6	231.8	216.4	208.6	204.3	207.8
35°	430.1	416.4	393.2	330.5	271.3	228.4	202.6	188.0	182.0	176.0	176.0
37.5°	445.6	437.9	398.4	308.2	242.1	200.9	177.7	166.6	156.3	145.1	145.1
40°	478.2	467.9	404.4	282.5	212.9	174.3	158.0	143.4	133.1	117.6	116.8
42.5°	512.6	490.2	404.4	251.6	187.2	155.4	139.9	124.5	105.6	96.2	97.0
45°	556.3	530.6	393.2	224.1	161.4	139.9	122.8	103.0	94.4	88.4	88.4
47.5°	611.3	570.9	379.5	194.0	140.8	126.2	104.7	92.7	86.7	81.6	80.7
50°	676.5	607.9	362.3	168.3	123.6	113.3	95.3	85.9	80.7	77.3	77.3
52.5°	745.2	662.0	350.3	145.1	109.9	96.2	88.4	82.4	78.1	75.6	74.7
55°	814.8	716.0	341.7	120.2	97.0	88.4	86.7	81.6	79.8	77.3	75.6
57.5°	892.9	760.7	340.0	103.0	86.7	85.0	88.4	84.1	81.6	79.0	76.4
60°	977.0	820.8	324.5	89.3	81.6	83.3	85.9	81.6	79.8	77.3	75.6
62.5°	1060.3	865.4	282.5	79.0	76.4	78.1	81.6	78.1	75.6	76.4	77.3
65°	1094.7	868.9	218.9	71.3	70.4	71.3	76.4	75.6	73.0	78.1	78.1
67.5°	1060.3	838.0	154.5	64.4	64.4	68.7	77.3	79.0	76.4	83.3	82.4
70°	982.2	761.5	104.7	60.1	61.8	73.0	79.8	78.1	74.7	83.3	81.6
72.5°	833.7	609.6	76.4	55.8	58.4	69.5	79.0	77.3	74.7	78.1	74.7
75°	625.9	433.6	60.1	50.7	51.5	62.7	81.6	77.3	70.4	68.7	66.1
77.5°	418.1	267.9	46.4	44.6	44.6	54.9	78.1	72.1	63.5	61.0	60.1
80°	199.2	107.3	36.9	37.8	38.6	47.2	71.3	64.4	57.5	54.1	54.1
82.5°	63.5	40.4	30.9	30.9	30.9	38.6	59.2	54.1	49.8	47.2	42.9
85°	22.3	22.3	26.6	27.5	24.9	28.3	48.9	46.4	41.2	34.3	33.5
87.5°	8.6	12.9	18.0	21.5	15.5	19.7	35.2	32.6	30.0	22.3	21.5
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)