

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: P675300

Luminaire Tested: **CCW-SA-1B-827-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675300  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-827-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4W distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

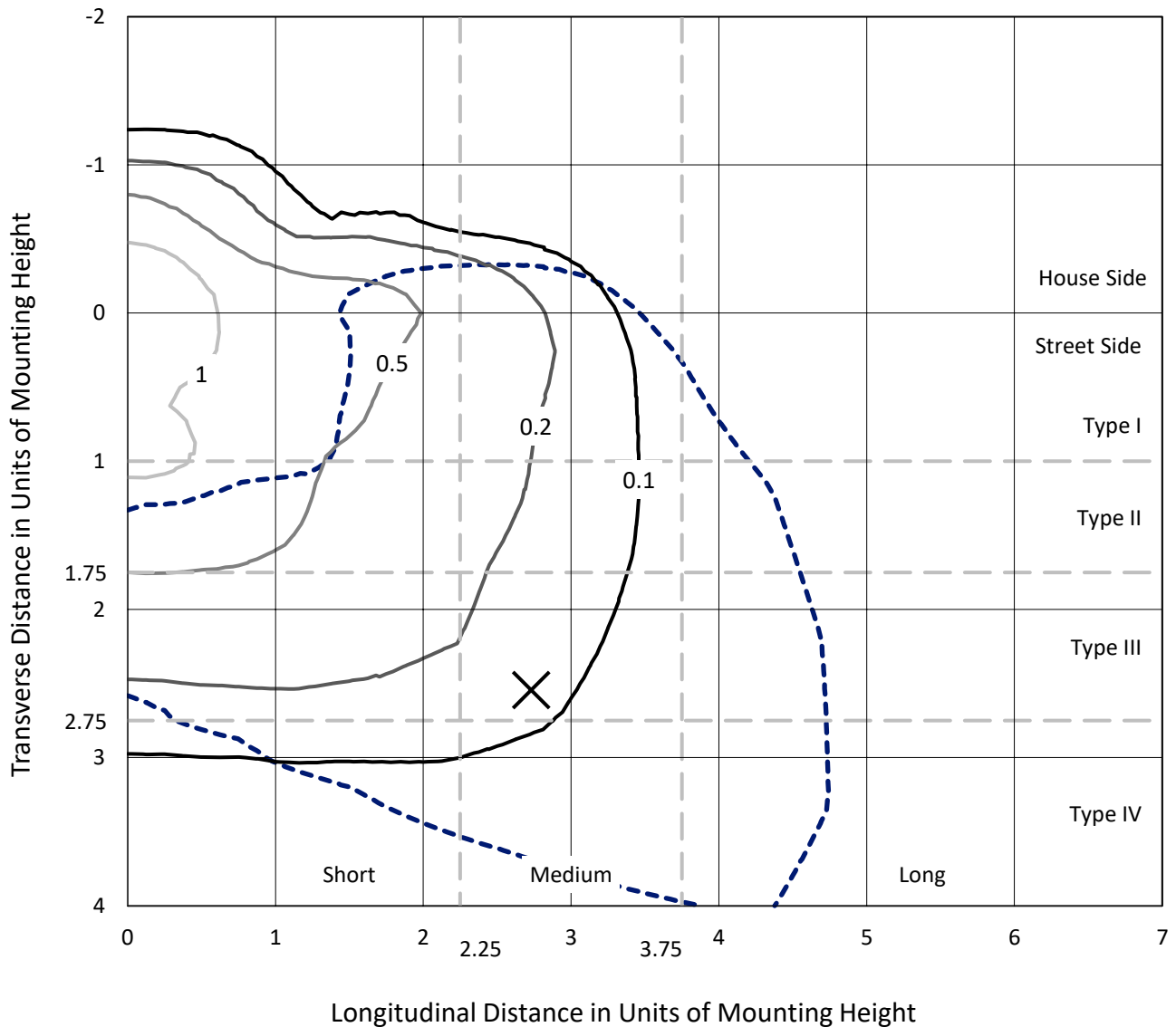
Lumens per Lamp: N/A  
Luminaire Lumens: 2561.1 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

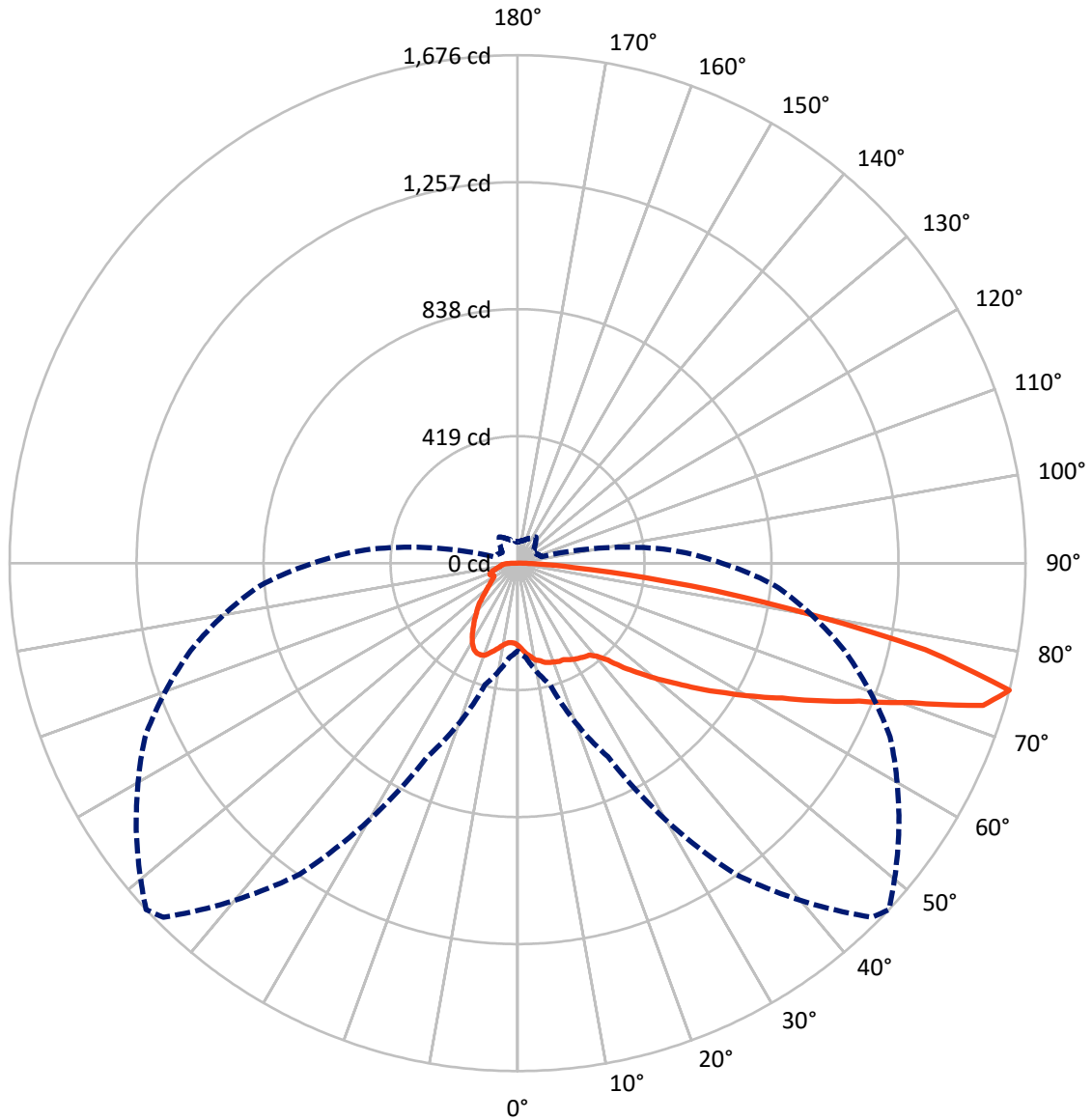
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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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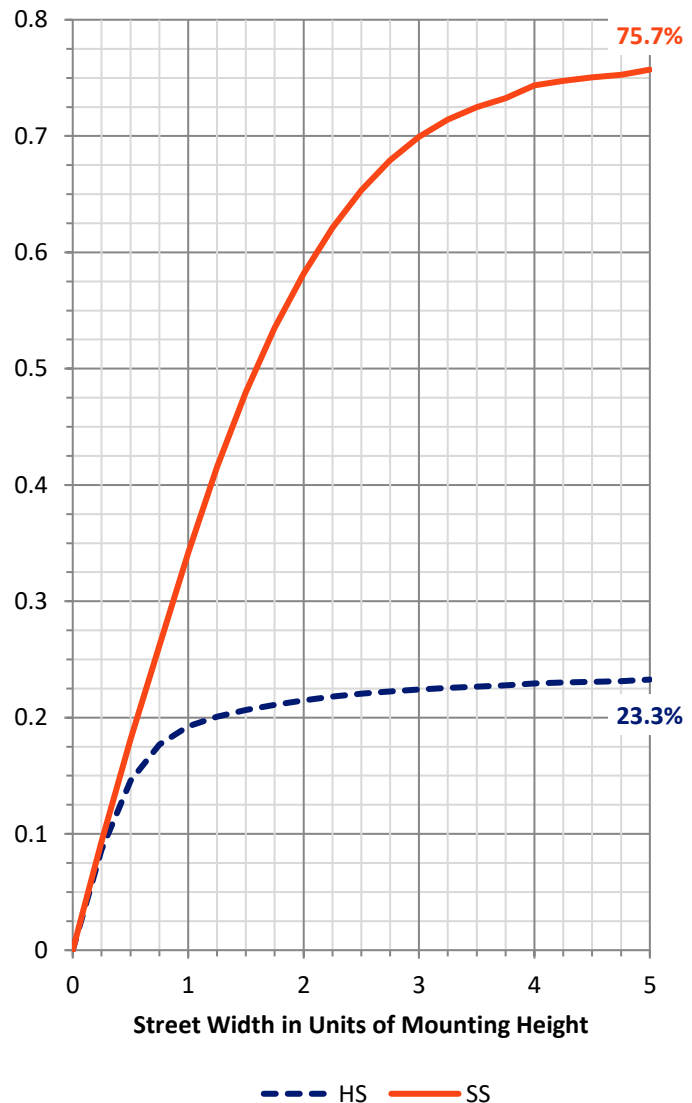
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	612.5	0.0	612.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	1948.6	0.0	1948.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2561.1	0.0	2561.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	1.1
10°-20°	91.3	3.6
20°-30°	156.4	6.1
30°-40°	218.8	8.5
40°-50°	305.1	11.9
50°-60°	456.0	17.8
60°-70°	657.4	25.7
70°-80°	559.6	21.8
80°-90°	89.1	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°	2561.1	100.0
0°-180°	2561.1	100.0



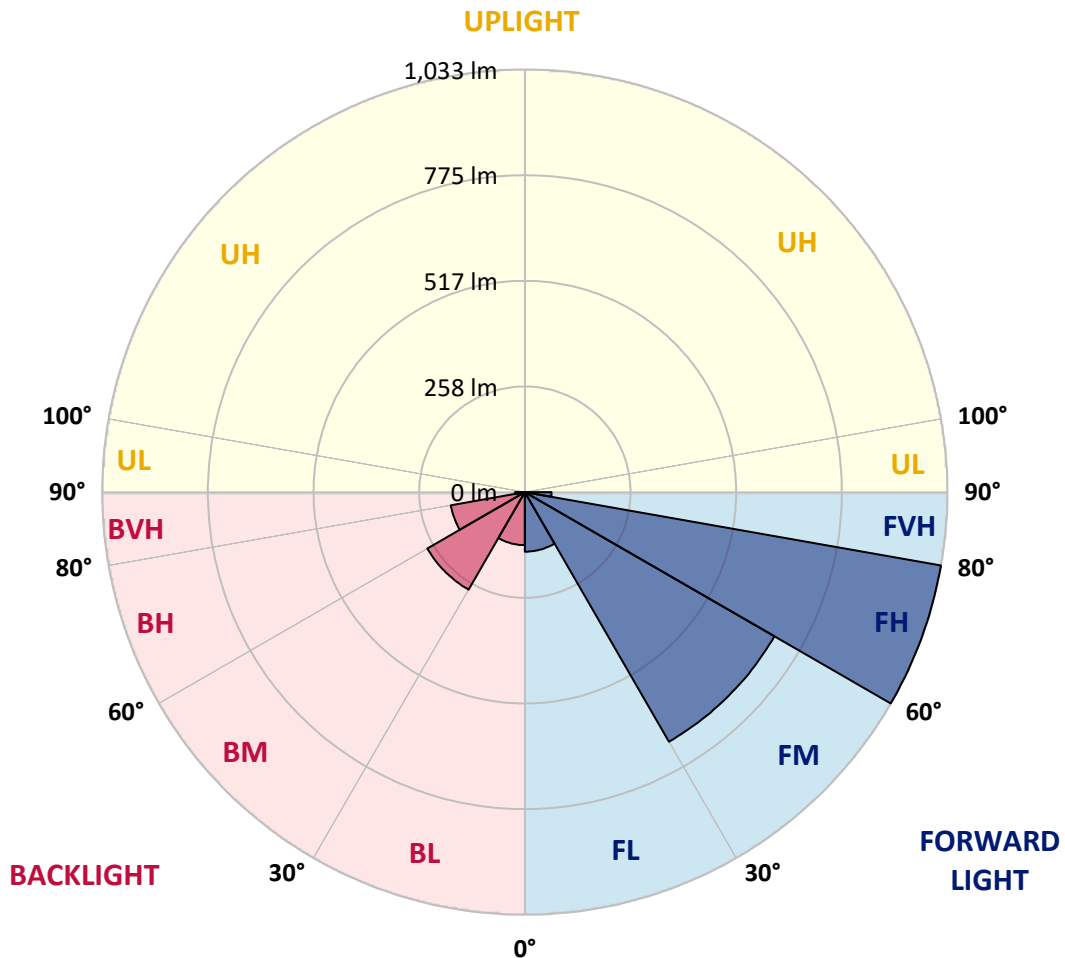
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.5	5.7			
FM (30°-60°)	704.6	27.5			
FH (60°-80°)	1033.3	40.3			G1/1800
FVH (80°-90°)	65.3	2.6			G1/100
BL (0°-30°)	129.6	5.1	B1/500		
BM (30°-60°)	275.3	10.7	B1/1000		
BH (60°-80°)	183.7	7.2	B1/500		G1/500
BVH (80°-90°)	23.8	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°	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9
2.5°	291.6	292.5	292.5	290.6	288.8	285.0	285.0	281.3	279.4	274.7	272.9
5°	318.7	315.9	313.1	312.1	307.5	300.9	300.0	296.2	286.0	281.3	274.7
7.5°	338.3	337.4	336.4	332.7	324.3	314.0	311.2	305.6	295.3	286.0	278.5
10°	354.2	357.9	354.2	345.8	337.4	326.1	325.2	314.9	305.6	294.4	285.0
12.5°	371.9	372.9	366.3	356.0	343.0	333.6	329.9	326.1	315.9	306.5	292.5
15°	384.1	382.2	377.5	363.5	348.6	339.2	340.2	335.5	324.3	317.7	302.8
17.5°	384.1	384.1	376.6	366.3	353.2	344.8	344.8	342.0	334.6	325.2	314.9
20°	376.6	376.6	371.9	366.3	351.4	349.5	347.6	345.8	345.8	337.4	322.4
22.5°	367.3	365.4	367.3	357.9	347.6	349.5	352.3	351.4	348.6	341.1	330.8
25°	357.9	358.8	360.7	354.2	344.8	353.2	352.3	357.0	355.1	349.5	341.1
27.5°	357.0	358.8	359.8	353.2	349.5	357.0	360.7	365.4	366.3	360.7	350.4
30°	371.0	370.1	369.1	360.7	357.9	364.5	368.2	374.7	380.3	368.2	359.8
32.5°	407.4	401.8	396.2	373.8	365.4	370.1	373.8	383.1	384.1	377.5	365.4
35°	465.4	461.6	443.0	403.7	380.3	375.7	379.4	385.9	387.8	383.1	373.8
37.5°	531.7	529.9	503.7	456.0	411.2	388.8	385.0	394.4	401.8	391.6	378.5
40°	597.1	589.7	571.0	524.3	450.4	408.4	403.7	408.4	411.2	403.7	395.3
42.5°	656.0	647.6	642.9	596.2	501.8	441.1	437.3	426.1	434.5	425.2	414.0
45°	705.5	703.7	701.8	661.6	560.7	494.4	491.5	462.6	471.9	464.4	448.6
47.5°	741.1	749.5	746.7	724.2	628.0	551.4	542.9	505.6	519.6	512.1	496.2
50°	783.1	787.8	785.0	770.0	690.6	616.8	600.9	562.6	578.5	577.5	569.1
52.5°	820.5	834.5	818.6	817.7	780.3	687.8	660.7	624.2	650.4	660.7	659.8
55°	864.4	875.6	871.0	869.1	860.7	756.9	732.6	688.7	732.6	747.6	760.7
57.5°	901.8	900.9	918.6	940.1	950.4	836.4	807.4	756.0	822.4	839.2	875.6
60°	918.6	934.5	964.4	1018.6	1047.6	921.4	891.5	850.4	913.0	926.1	993.4
62.5°	929.8	943.8	1001.8	1093.4	1110.2	1008.3	980.3	939.2	1012.1	1021.4	1121.4
65°	899.0	912.1	1027.0	1121.4	1181.2	1101.8	1095.2	1052.2	1111.1	1116.7	1256.0
67.5°	863.5	877.5	1005.5	1156.9	1275.6	1226.1	1215.8	1164.4	1209.2	1202.7	1358.8
70°	800.9	819.6	950.4	1187.7	1380.3	1399.9	1379.3	1306.4	1311.1	1249.4	1363.4
72.5°	610.2	622.4	743.9	1065.3	1428.9	1641.0	1605.5	1459.7	1406.4	1258.8	1203.6
75°	289.7	312.1	414.9	704.6	1252.2	1652.2	1675.6	1535.4	1356.0	1116.7	853.2
77.5°	84.1	84.1	126.2	299.0	785.0	1331.7	1375.6	1303.6	1118.6	827.0	448.6
80°	45.8	48.6	66.3	105.6	344.8	840.1	903.7	864.4	658.8	327.1	115.9
82.5°	26.2	27.1	43.9	63.5	157.0	457.0	494.4	448.6	250.4	99.1	54.2
85°	15.0	15.9	25.2	42.1	93.4	168.2	183.2	158.9	100.9	66.3	27.1
87.5°	7.5	7.5	12.1	19.6	47.7	47.7	46.7	57.0	60.7	40.2	12.1
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°	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9	271.9
2.5°	271.9	271.0	271.0	267.3	266.3	263.5	263.5	261.7	260.7	263.5	263.5
5°	272.9	268.2	267.3	263.5	264.5	262.6	266.3	264.5	263.5	263.5	262.6
7.5°	274.7	270.1	266.3	263.5	262.6	265.4	270.1	270.1	275.7	272.9	272.9
10°	279.4	276.6	271.9	270.1	270.1	272.9	278.5	282.2	286.9	286.9	284.1
12.5°	290.6	286.0	280.3	277.5	281.3	284.1	289.7	293.4	299.0	300.9	299.0
15°	299.0	294.4	292.5	290.6	293.4	297.2	301.8	305.6	312.1	314.0	313.1
17.5°	310.3	304.6	303.7	304.6	306.5	309.3	312.1	314.9	319.6	319.6	319.6
20°	315.9	314.0	313.1	315.9	319.6	323.3	321.5	319.6	318.7	320.5	319.6
22.5°	326.1	324.3	325.2	328.0	328.0	326.1	323.3	316.8	314.9	316.8	314.9
25°	335.5	333.6	333.6	331.7	330.8	324.3	318.7	313.1	306.5	309.3	308.4
27.5°	344.8	343.9	343.9	336.4	327.1	315.9	308.4	301.8	298.1	302.8	300.0
30°	356.0	357.0	352.3	334.6	312.1	300.0	291.6	290.6	289.7	292.5	291.6
32.5°	366.3	367.3	359.8	331.7	300.9	277.5	269.1	270.1	274.7	279.4	284.1
35°	371.9	376.6	367.3	322.4	278.5	252.3	243.0	251.4	259.8	266.3	271.0
37.5°	382.2	394.4	378.5	312.1	258.9	229.9	223.3	226.1	236.4	246.7	251.4
40°	397.2	411.2	381.3	292.5	232.7	207.5	203.7	204.7	208.4	214.9	219.6
42.5°	423.3	438.3	384.1	267.3	206.5	193.4	183.2	180.4	177.6	177.6	176.6
45°	461.6	475.7	380.3	235.5	180.4	171.0	163.5	157.0	149.5	137.4	139.2
47.5°	517.7	528.9	383.1	207.5	156.1	148.6	143.0	135.5	124.3	111.2	110.3
50°	602.8	585.9	379.4	178.5	138.3	131.8	127.1	116.8	103.7	94.4	93.4
52.5°	701.8	668.2	375.7	154.2	123.4	117.7	114.0	102.8	90.6	86.0	85.0
55°	821.4	772.8	381.3	132.7	112.1	107.5	103.7	93.4	84.1	80.4	79.4
57.5°	962.5	885.9	412.1	115.9	100.0	98.1	97.2	88.8	80.4	77.6	76.6
60°	1095.2	994.3	432.7	103.7	88.8	90.6	92.5	88.8	79.4	77.6	77.6
62.5°	1206.4	1084.0	400.0	93.4	83.2	88.8	97.2	94.4	90.6	92.5	90.6
65°	1304.6	1114.9	299.0	87.8	80.4	93.4	107.5	106.5	98.1	100.0	99.1
67.5°	1321.4	1077.5	195.3	83.2	78.5	102.8	120.6	109.3	92.5	92.5	89.7
70°	1251.3	977.5	130.8	78.5	77.6	102.8	123.4	102.8	86.9	86.9	83.2
72.5°	1027.0	781.2	100.9	73.8	71.0	91.6	116.8	97.2	81.3	79.4	72.9
75°	674.7	503.7	82.2	70.1	61.7	80.4	105.6	89.7	77.6	72.0	69.2
77.5°	330.8	226.1	69.2	61.7	53.3	70.1	96.3	85.0	72.9	67.3	65.4
80°	90.6	81.3	57.9	54.2	44.9	60.7	90.6	81.3	68.2	62.6	59.8
82.5°	51.4	50.5	46.7	43.9	37.4	60.7	91.6	81.3	64.5	63.5	54.2
85°	28.0	29.9	33.6	32.7	29.0	54.2	86.9	71.0	52.3	43.9	43.9
87.5°	11.2	14.0	16.8	18.7	19.6	40.2	65.4	54.2	40.2	33.6	33.6
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)