

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: P674900

Luminaire Tested: **CCW-SA-1A-840-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674900
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-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T2 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

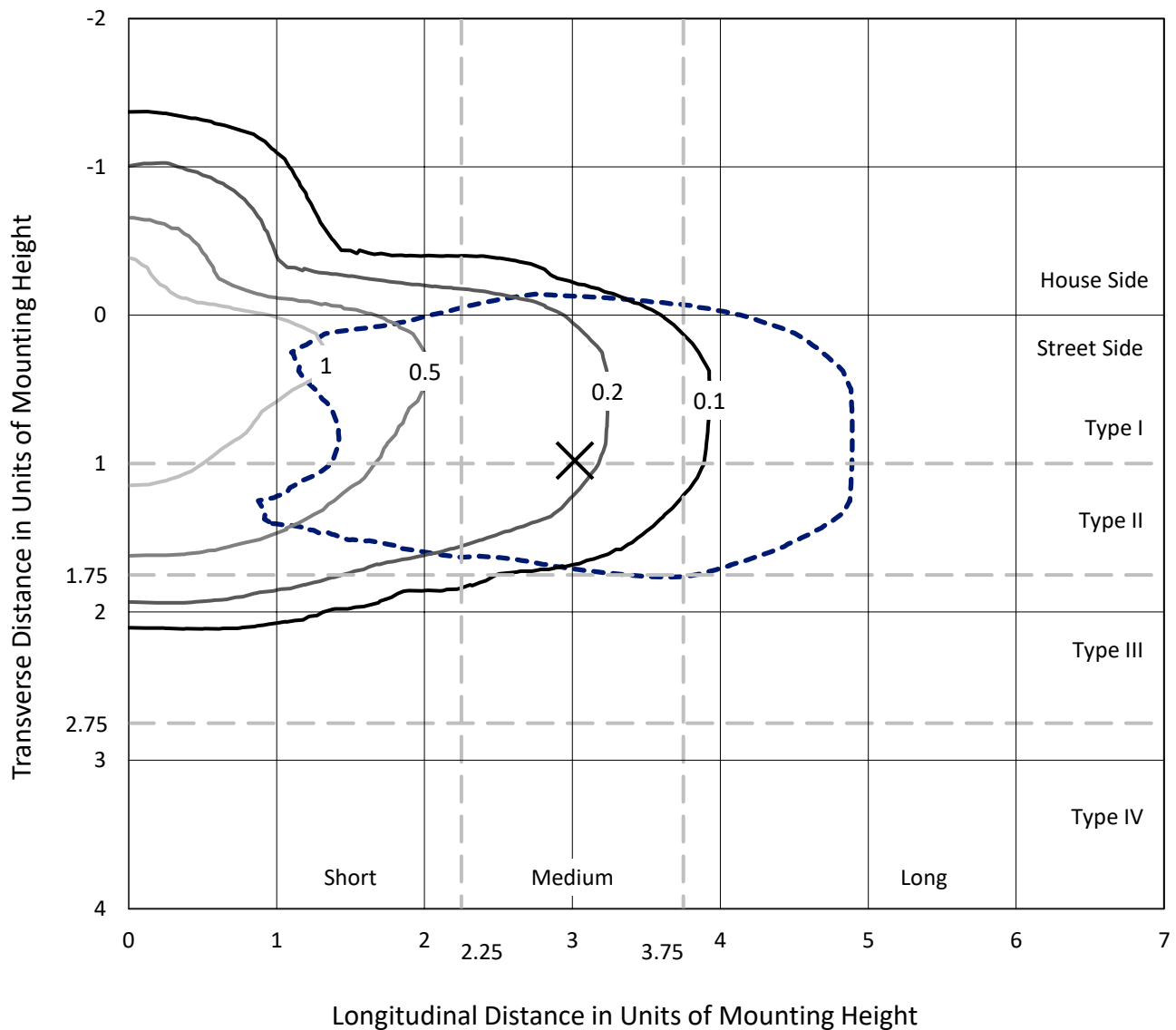
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

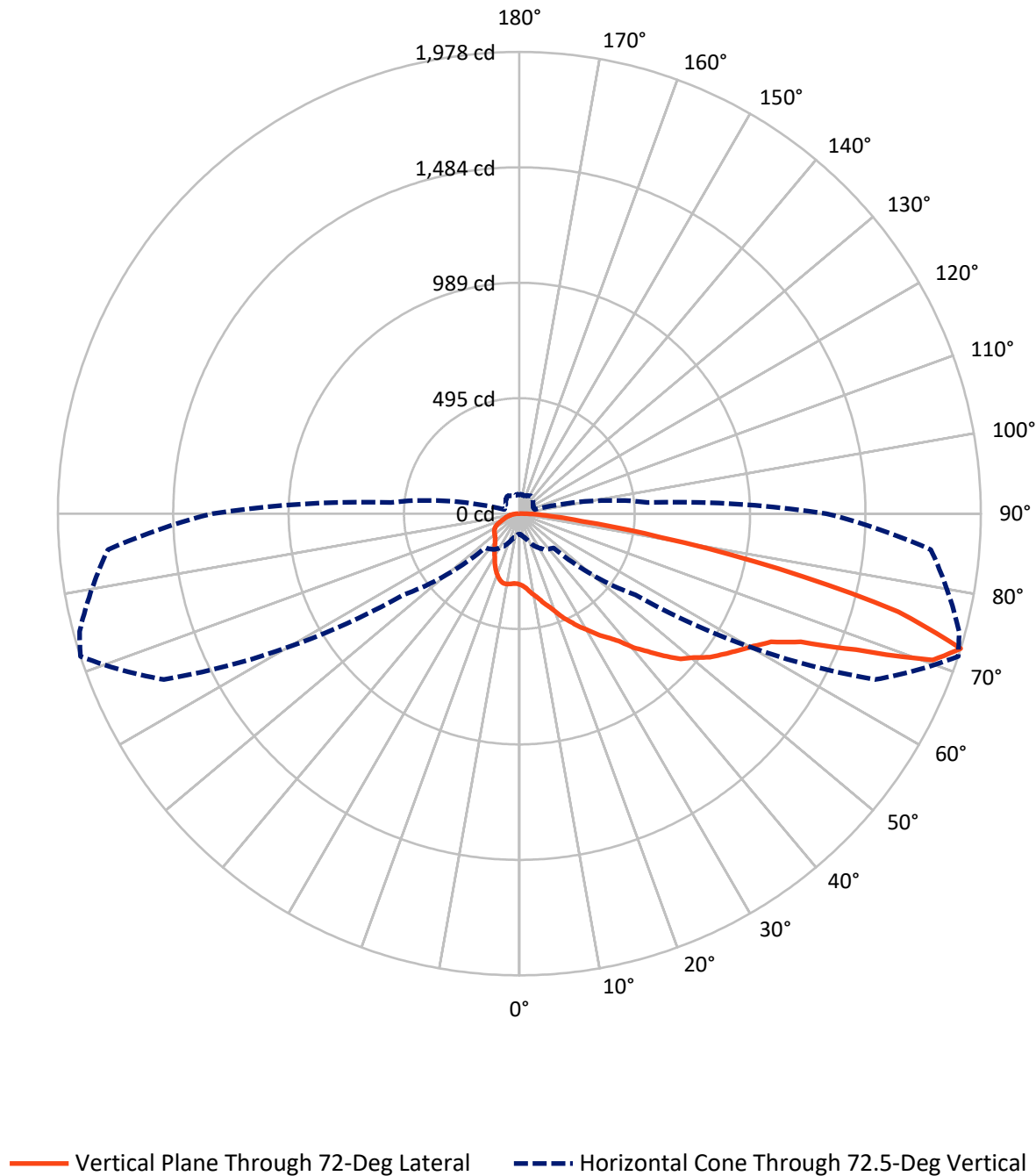
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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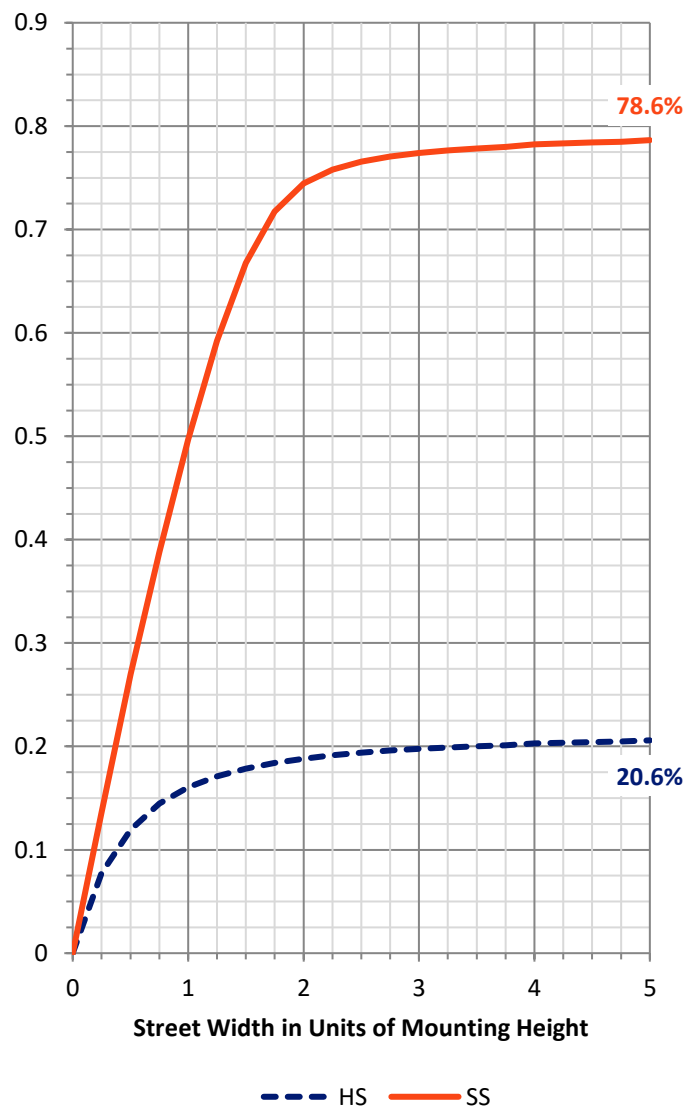
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.7	0.0	489.7
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	1837.1	0.0	1837.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	2326.7	0.0	2326.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	1.3
10°-20°	93.4	4.0
20°-30°	161.6	6.9
30°-40°	238.7	10.3
40°-50°	354.9	15.3
50°-60°	486.5	20.9
60°-70°	527.8	22.7
70°-80°	372.1	16.0
80°-90°	61.8	2.7
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°	2326.7	100.0
0°-180°	2326.7	100.0

Coefficient of Utilization



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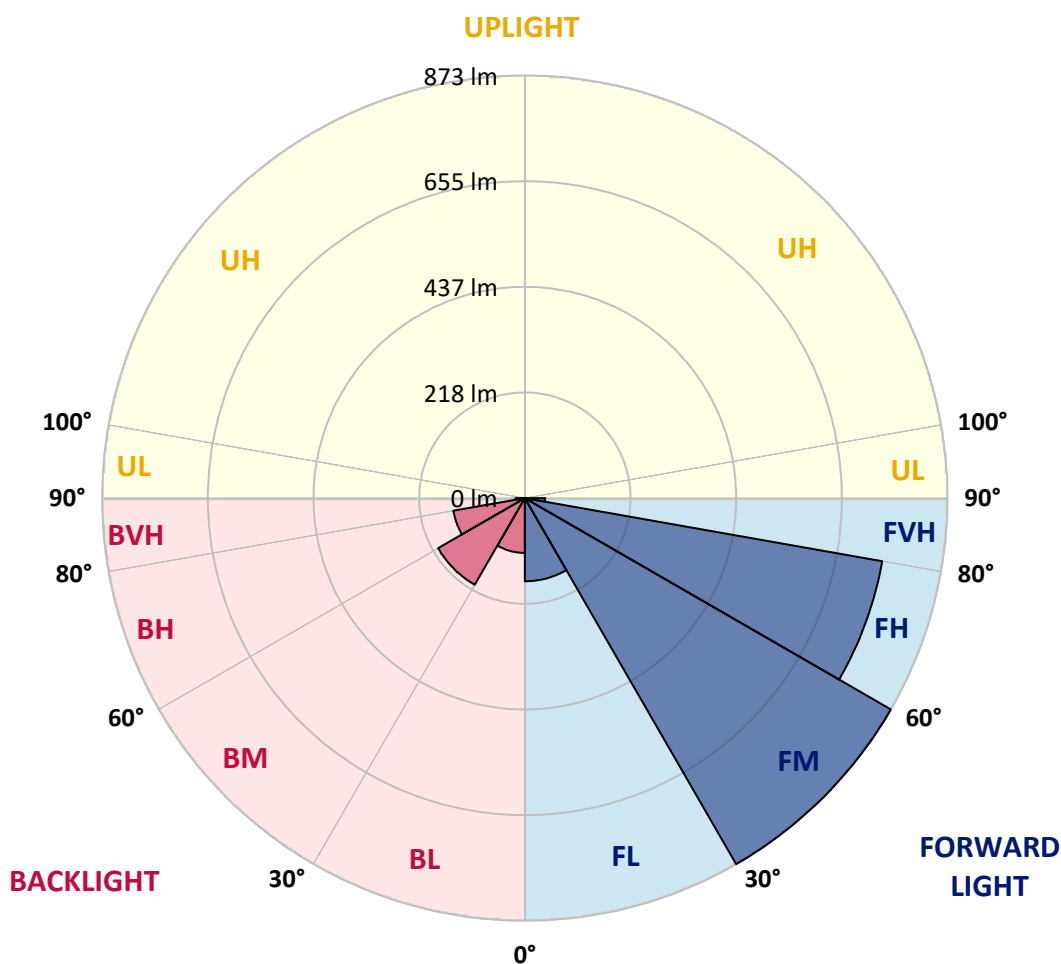
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.8	7.4			
FM	(30°-60°)	873.3	37.5			
FH	(60°-80°)	749.8	32.2			G1/1800
FVH	(80°-90°)	42.1	1.8			G1/100
BL	(0°-30°)	113.2	4.9	B1/500		
BM	(30°-60°)	206.8	8.9	B0/220		
BH	(60°-80°)	150.0	6.4	B1/500		G1/500
BVH	(80°-90°)	19.7	0.8			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9
2.5°	328.0	328.0	325.4	324.5	324.5	317.7	318.5	314.2	310.8	310.8	307.4
5°	345.1	343.4	343.4	343.4	339.1	336.6	335.7	328.0	322.0	322.8	312.5
7.5°	349.4	350.3	351.2	355.5	352.9	354.6	352.9	344.3	340.0	335.7	326.3
10°	352.0	353.7	353.7	359.7	359.7	364.0	366.6	363.2	355.5	351.2	335.7
12.5°	358.0	355.5	358.9	363.2	367.5	375.2	382.9	379.5	374.3	369.2	352.0
15°	358.0	358.9	361.5	368.3	375.2	382.9	396.7	401.8	399.2	389.8	371.8
17.5°	347.7	345.1	357.2	370.0	382.9	392.4	410.4	422.4	420.7	417.3	389.8
20°	348.6	351.2	355.5	366.6	387.2	404.4	426.7	446.5	450.8	449.0	413.8
22.5°	364.0	364.9	369.2	374.3	390.7	413.0	446.5	478.2	486.0	481.7	440.5
25°	379.5	386.4	386.4	389.8	395.8	419.0	459.3	504.0	515.1	516.0	467.9
27.5°	404.4	406.1	411.3	413.0	418.1	431.9	473.9	522.9	548.6	545.2	492.8
30°	433.6	434.4	437.9	436.2	437.0	454.2	487.7	544.3	579.5	580.4	519.4
32.5°	467.9	474.8	476.5	465.3	467.1	471.4	509.1	570.1	618.2	612.2	542.6
35°	518.6	521.2	516.0	510.9	498.0	495.4	531.5	595.9	651.7	658.5	577.0
37.5°	581.3	588.1	581.3	553.8	540.0	529.7	558.9	624.2	692.0	715.2	611.3
40°	639.6	638.8	631.9	607.0	583.0	575.2	598.4	663.7	754.7	777.0	661.1
42.5°	686.9	684.3	680.0	661.1	638.8	625.9	643.9	704.9	807.1	850.0	718.6
45°	728.1	724.6	725.5	704.0	682.6	689.4	689.4	752.1	868.9	922.1	784.7
47.5°	766.7	768.4	765.9	749.5	733.2	751.3	741.8	806.2	929.8	989.1	840.5
50°	811.4	814.8	806.2	795.9	781.3	799.3	787.3	856.9	969.3	1050.0	907.5
52.5°	853.4	856.9	864.6	851.7	837.1	851.7	824.2	904.1	1021.7	1109.3	959.0
55°	863.7	862.0	904.9	918.7	926.4	882.6	856.9	944.4	1062.9	1147.1	1017.4
57.5°	816.5	820.8	879.2	918.7	1001.1	963.3	893.8	991.7	1105.8	1196.9	1071.5
60°	698.9	701.5	774.4	868.0	988.2	1038.9	993.4	1052.6	1153.1	1238.9	1132.5
62.5°	467.1	486.8	577.8	724.6	897.2	1059.5	1152.2	1155.6	1210.6	1292.2	1215.7
65°	246.4	255.9	327.1	445.6	680.0	988.2	1301.6	1360.0	1325.6	1390.0	1335.9
67.5°	161.4	164.8	203.5	270.5	392.4	721.2	1318.8	1714.6	1556.6	1576.3	1528.3
70°	120.2	121.9	150.3	200.0	243.0	385.5	1080.9	1880.3	1879.4	1827.1	1756.6
72.5°	88.4	91.0	110.8	152.8	187.2	207.8	607.9	1682.0	1978.2	1951.5	1770.4
75°	69.5	71.3	81.6	118.5	151.1	136.5	308.2	1245.8	1677.7	1805.6	1620.1
77.5°	56.7	58.4	64.4	85.9	121.1	105.6	147.7	803.6	1137.6	1299.9	1239.8
80°	47.2	47.2	51.5	61.0	93.6	79.8	87.6	451.6	613.0	676.6	562.4
82.5°	40.4	39.5	42.9	44.6	69.5	57.5	56.7	204.3	269.6	285.9	211.2
85°	25.8	26.6	40.4	38.6	45.5	39.5	31.8	97.0	127.1	129.6	79.0
87.5°	10.3	10.3	17.2	21.5	25.8	24.0	15.5	43.8	55.8	55.8	22.3
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°	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9
2.5°	306.5	303.1	300.5	298.8	294.5	290.2	291.1	290.2	286.8	285.0	285.0
5°	309.9	306.5	302.2	295.4	291.1	285.9	287.6	284.2	280.8	283.3	279.0
7.5°	318.5	312.5	306.5	296.2	289.3	281.6	278.2	276.5	273.9	272.2	272.2
10°	330.6	322.0	310.8	295.4	284.2	272.2	270.5	267.0	264.4	264.4	263.6
12.5°	342.6	333.1	314.2	289.3	270.5	261.9	261.0	261.9	263.6	264.4	265.3
15°	358.0	342.6	313.4	278.2	259.3	255.9	260.1	263.6	267.0	270.5	269.6
17.5°	372.6	354.6	305.7	264.4	249.8	250.7	258.4	265.3	272.2	275.6	276.5
20°	392.4	365.8	294.5	248.1	240.4	248.1	258.4	267.0	274.7	279.0	279.9
22.5°	414.7	378.6	279.9	233.5	232.7	240.4	250.7	263.6	272.2	279.9	279.0
25°	434.4	387.2	261.0	221.5	223.2	228.4	240.4	254.1	262.7	271.3	268.7
27.5°	447.3	388.9	241.3	212.9	212.9	218.1	229.2	237.8	245.6	252.4	253.3
30°	461.9	385.5	218.9	201.8	201.8	208.6	212.9	218.1	222.4	224.1	225.8
32.5°	479.1	377.8	205.2	193.2	193.2	198.3	200.9	199.2	198.3	194.0	196.6
35°	495.4	366.6	189.7	182.0	185.5	188.0	187.2	182.0	176.9	169.1	166.6
37.5°	515.1	355.5	176.0	170.0	176.0	176.9	176.9	170.9	164.0	154.5	154.5
40°	545.2	346.9	164.8	162.3	168.3	167.4	163.1	158.8	161.4	156.3	156.3
42.5°	577.0	343.4	154.5	155.4	158.0	158.8	154.5	149.4	159.7	153.7	154.5
45°	616.5	346.0	147.7	146.8	152.8	152.0	149.4	145.1	148.5	133.1	128.8
47.5°	653.4	351.2	144.2	140.8	147.7	149.4	146.0	136.5	131.4	121.9	120.2
50°	686.9	362.3	140.8	133.9	140.8	144.2	138.2	127.9	121.9	115.9	115.9
52.5°	718.6	378.6	139.1	126.2	132.2	136.5	133.1	122.8	115.9	113.3	110.8
55°	751.3	393.2	136.5	121.1	122.8	131.4	130.5	116.8	109.9	109.9	109.0
57.5°	797.6	413.0	133.1	112.5	115.9	125.4	125.4	114.2	106.5	107.3	108.2
60°	844.8	436.2	129.6	103.9	106.5	119.3	121.1	110.8	103.9	104.7	103.9
62.5°	920.4	479.1	122.8	93.6	98.7	111.6	115.9	106.5	100.5	102.2	102.2
65°	1034.6	552.9	108.2	85.0	91.0	104.7	110.8	102.2	95.3	100.5	98.7
67.5°	1218.3	654.2	91.0	78.1	85.9	97.9	104.7	97.0	91.0	98.7	96.2
70°	1383.2	704.0	78.1	72.1	78.1	90.2	97.9	91.9	85.9	93.6	90.2
72.5°	1316.2	552.1	67.8	65.3	71.3	81.6	91.0	85.0	79.0	83.3	79.8
75°	1135.9	439.6	59.2	58.4	63.5	73.8	83.3	79.0	73.0	74.7	73.0
77.5°	861.2	363.2	50.7	49.8	54.1	66.1	74.7	71.3	65.3	64.4	64.4
80°	384.6	178.6	42.1	42.1	44.6	56.7	63.5	61.8	55.8	54.9	54.1
82.5°	126.2	67.8	34.3	32.6	36.1	47.2	56.7	54.9	48.9	47.2	45.5
85°	50.7	32.6	24.9	24.9	28.3	39.5	50.7	47.2	39.5	35.2	35.2
87.5°	17.2	13.7	12.9	12.9	18.0	26.6	37.8	31.8	28.3	24.9	25.8
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)