

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: P674901

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

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674901
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-840-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T2 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2937.2 lumens
Efficiency: N/A
Efficacy: 122.4 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): 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

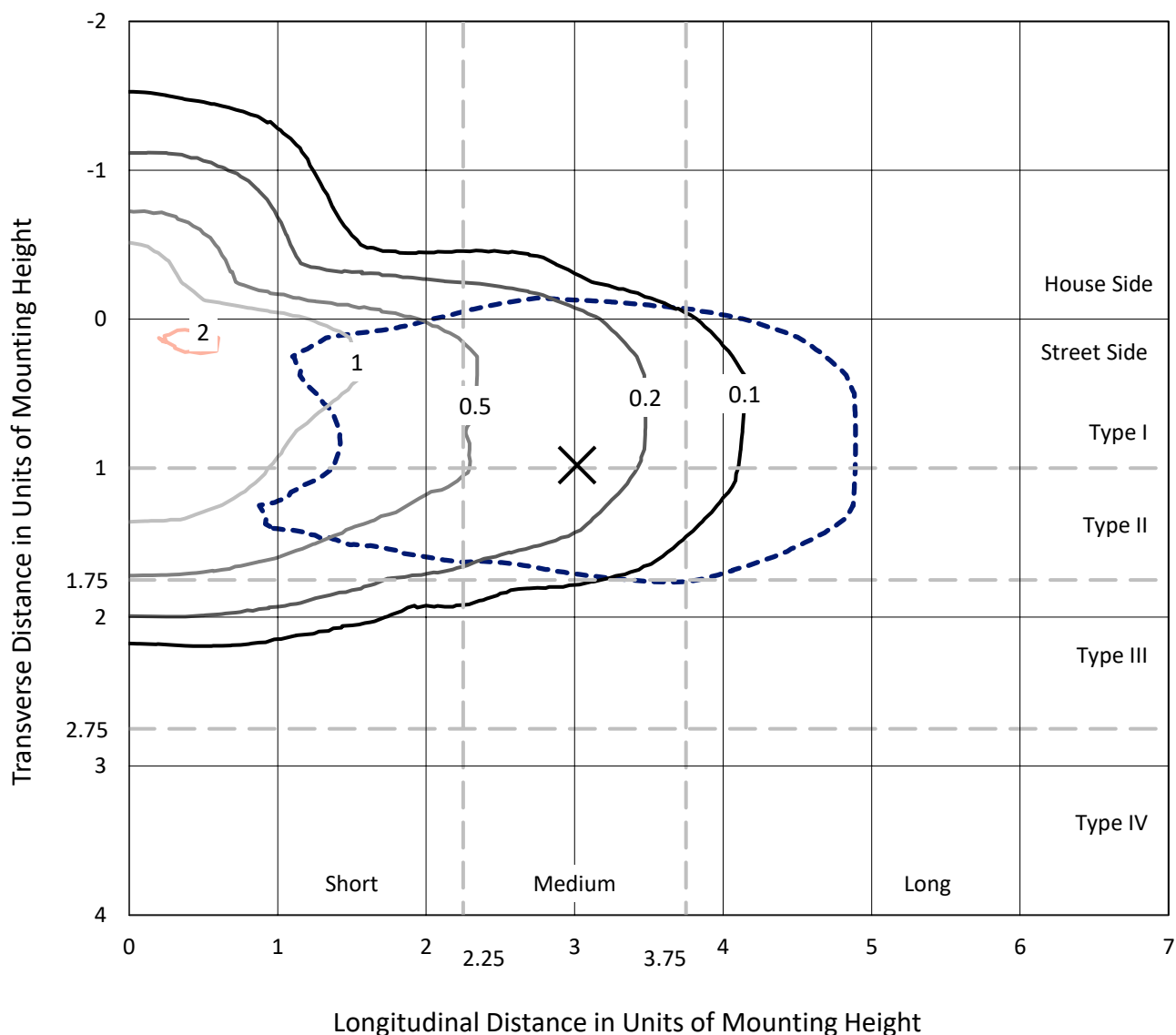
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

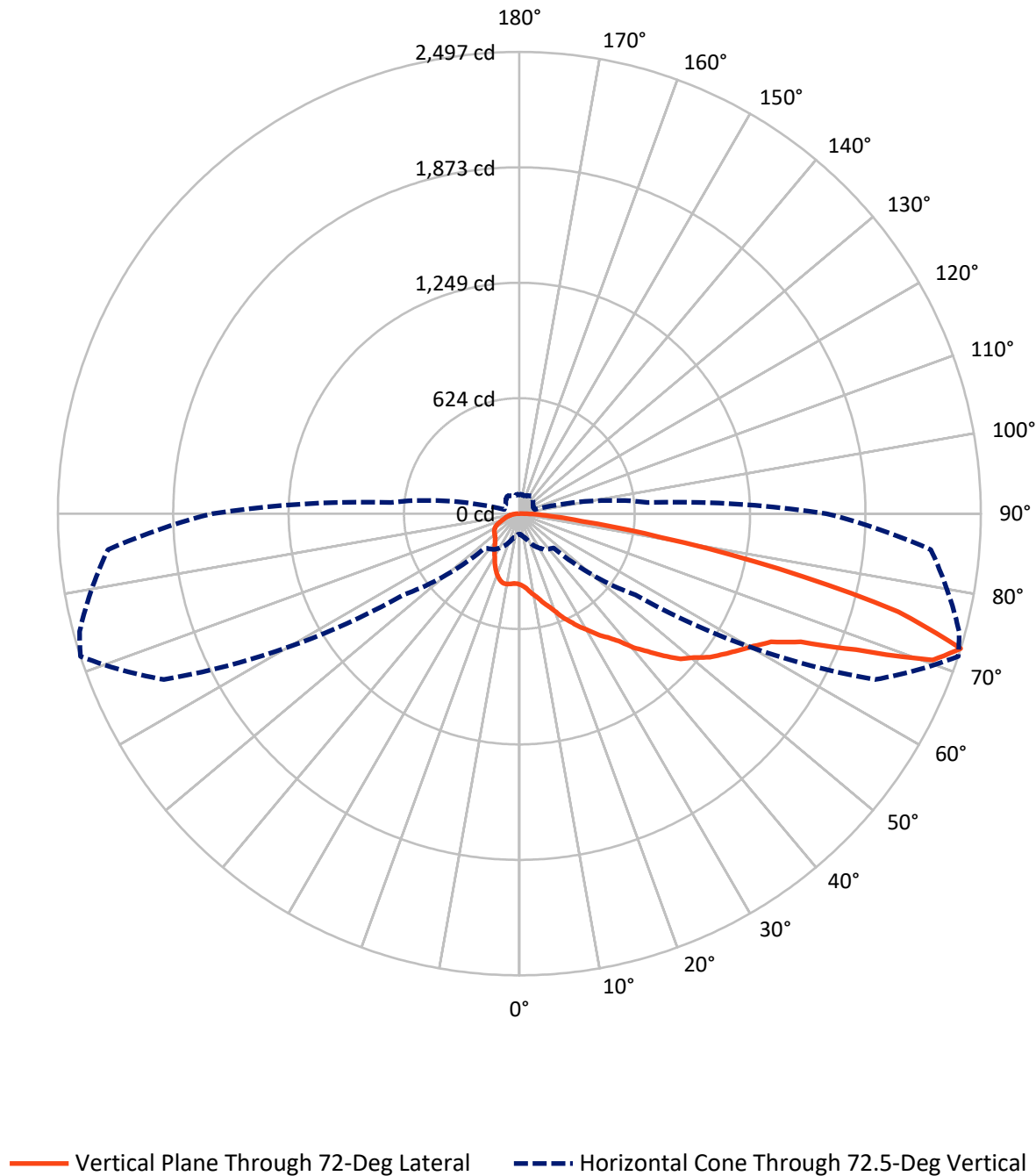
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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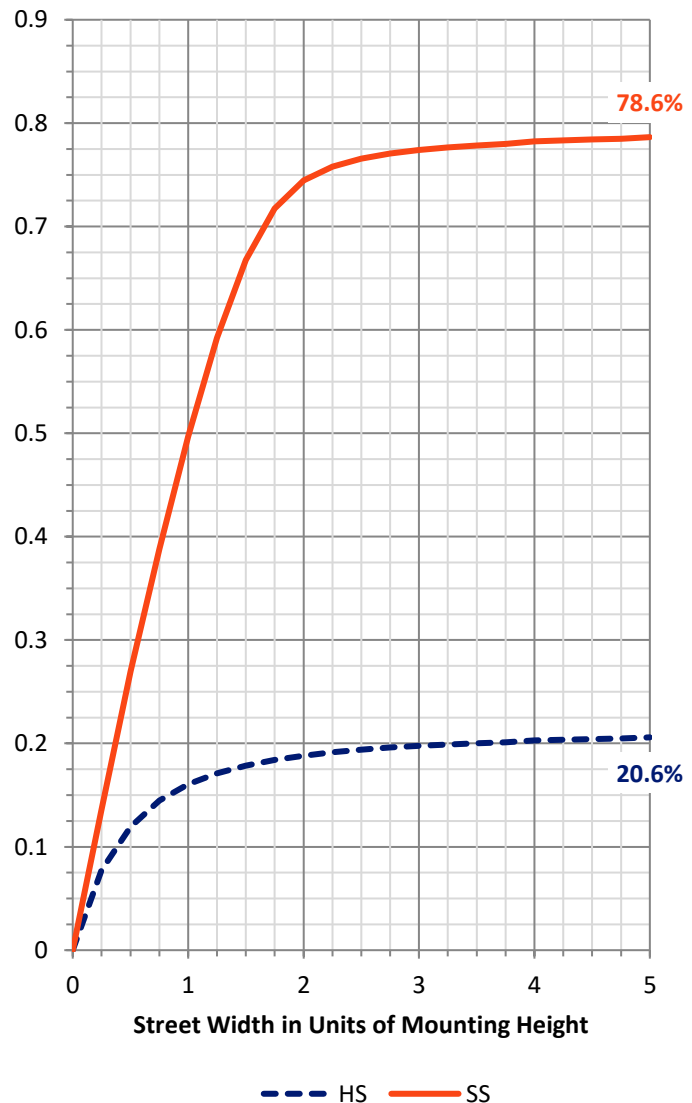
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.1	0.0	618.1
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	2319.1	0.0	2319.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	2937.2	0.0	2937.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	1.3
10°-20°	117.9	4.0
20°-30°	204.0	6.9
30°-40°	301.3	10.3
40°-50°	448.0	15.3
50°-60°	614.2	20.9
60°-70°	666.2	22.7
70°-80°	469.7	16.0
80°-90°	78.0	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°	2937.2	100.0
0°-180°	2937.2	100.0

Coefficient of Utilization



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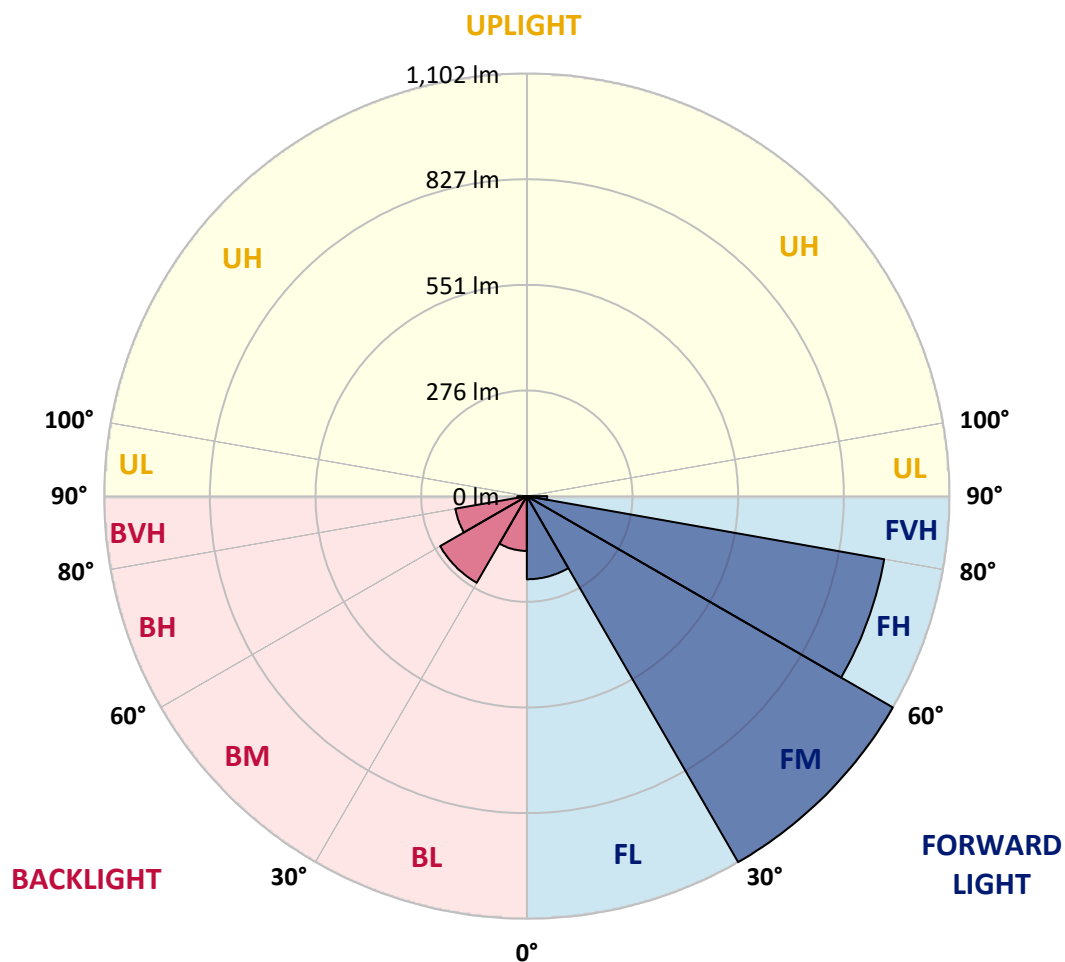
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.9	7.4			
FM	(30°-60°)	1102.4	37.5			
FH	(60°-80°)	946.6	32.2			G1/1800
FVH	(80°-90°)	53.2	1.8			G1/100
BL	(0°-30°)	142.9	4.9	B1/500		
BM	(30°-60°)	261.1	8.9	B1/1000		
BH	(60°-80°)	189.3	6.4	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7
2.5°	414.0	414.0	410.8	409.7	409.7	401.0	402.1	396.7	392.4	392.4	388.0
5°	435.7	433.5	433.5	433.5	428.1	424.9	423.8	414.0	406.4	407.5	394.5
7.5°	441.1	442.2	443.3	448.7	445.5	447.6	445.5	434.6	429.2	423.8	411.9
10°	444.4	446.5	446.5	454.1	454.1	459.5	462.8	458.5	448.7	443.3	423.8
12.5°	452.0	448.7	453.0	458.5	463.9	473.6	483.4	479.1	472.6	466.1	444.4
15°	452.0	453.0	456.3	465.0	473.6	483.4	500.7	507.2	504.0	492.1	469.3
17.5°	439.0	435.7	450.9	467.1	483.4	495.3	518.1	533.2	531.1	526.7	492.1
20°	440.0	443.3	448.7	462.8	488.8	510.5	538.7	563.6	569.0	566.8	522.4
22.5°	459.5	460.6	466.1	472.6	493.1	521.3	563.6	603.7	613.5	608.0	556.0
25°	479.1	487.7	487.7	492.1	499.7	528.9	579.9	636.2	650.3	651.4	590.7
27.5°	510.5	512.7	519.2	521.3	527.8	545.2	598.3	660.1	692.6	688.2	622.1
30°	547.3	548.4	552.8	550.6	551.7	573.4	615.6	687.2	731.6	732.7	655.7
32.5°	590.7	599.4	601.5	587.4	589.6	595.0	642.7	719.7	780.4	772.8	685.0
35°	654.6	657.9	651.4	644.9	628.6	625.4	670.9	752.2	822.6	831.3	728.3
37.5°	733.8	742.4	733.8	699.1	681.7	668.7	705.6	788.0	873.6	902.8	771.7
40°	807.5	806.4	797.7	766.3	735.9	726.2	755.4	837.8	952.7	980.9	834.6
42.5°	867.1	863.8	858.4	834.6	806.4	790.1	812.9	889.8	1018.8	1073.0	907.2
45°	919.1	914.8	915.8	888.7	861.7	870.3	870.3	949.4	1096.8	1164.0	990.6
47.5°	967.9	970.0	966.8	946.2	925.6	948.4	936.4	1017.7	1173.8	1248.6	1061.1
50°	1024.2	1028.6	1017.7	1004.7	986.3	1009.1	993.9	1081.7	1223.7	1325.5	1145.6
52.5°	1077.3	1081.7	1091.4	1075.2	1056.7	1075.2	1040.5	1141.3	1289.8	1400.3	1210.6
55°	1090.3	1088.2	1142.4	1159.7	1169.5	1114.2	1081.7	1192.2	1341.8	1448.0	1284.4
57.5°	1030.7	1036.2	1109.9	1159.7	1263.8	1216.1	1128.3	1251.8	1396.0	1510.9	1352.6
60°	882.2	885.5	977.6	1095.8	1247.5	1311.4	1254.0	1328.8	1455.6	1564.0	1429.6
62.5°	589.6	614.5	729.4	914.8	1132.6	1337.5	1454.5	1458.8	1528.2	1631.2	1534.7
65°	311.1	323.0	412.9	562.5	858.4	1247.5	1643.1	1716.8	1673.4	1754.7	1686.5
67.5°	203.8	208.1	256.9	341.4	495.3	910.4	1664.8	2164.4	1965.0	1989.9	1929.2
70°	151.7	153.9	189.7	252.5	306.7	486.6	1364.6	2373.6	2372.5	2306.4	2217.5
72.5°	111.6	114.9	139.8	192.9	236.3	262.3	767.4	2123.2	2497.2	2463.6	2234.9
75°	87.8	90.0	103.0	149.6	190.8	172.3	389.1	1572.7	2117.8	2279.3	2045.2
77.5°	71.5	73.7	81.3	108.4	152.8	133.3	186.4	1014.5	1436.1	1640.9	1565.1
80°	59.6	59.6	65.0	77.0	118.1	100.8	110.6	570.1	773.9	854.1	709.9
82.5°	50.9	49.9	54.2	56.4	87.8	72.6	71.5	258.0	340.3	360.9	266.6
85°	32.5	33.6	50.9	48.8	57.4	49.9	40.1	122.5	160.4	163.7	99.7
87.5°	13.0	13.0	21.7	27.1	32.5	30.3	19.5	55.3	70.4	70.4	28.2
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°	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7	383.7
2.5°	386.9	382.6	379.3	377.2	371.8	366.3	367.4	366.3	362.0	359.8	359.8
5°	391.3	386.9	381.5	372.8	367.4	360.9	363.1	358.8	354.4	357.7	352.2
7.5°	402.1	394.5	386.9	373.9	365.3	355.5	351.2	349.0	345.7	343.6	343.6
10°	417.3	406.4	392.4	372.8	358.8	343.6	341.4	337.1	333.8	333.8	332.7
12.5°	432.5	420.5	396.7	365.3	341.4	330.6	329.5	330.6	332.7	333.8	334.9
15°	452.0	432.5	395.6	351.2	327.3	323.0	328.4	332.7	337.1	341.4	340.3
17.5°	470.4	447.6	385.8	333.8	315.4	316.5	326.2	334.9	343.6	347.9	349.0
20°	495.3	461.7	371.8	313.2	303.5	313.2	326.2	337.1	346.8	352.2	353.3
22.5°	523.5	478.0	353.3	294.8	293.7	303.5	316.5	332.7	343.6	353.3	352.2
25°	548.4	488.8	329.5	279.6	281.8	288.3	303.5	320.8	331.7	342.5	339.2
27.5°	564.7	491.0	304.6	268.8	268.8	275.3	289.4	300.2	310.0	318.6	319.7
30°	583.1	486.6	276.4	254.7	254.7	263.4	268.8	275.3	280.7	282.9	285.0
32.5°	604.8	476.9	259.0	243.9	243.9	250.4	253.6	251.5	250.4	244.9	248.2
35°	625.4	462.8	239.5	229.8	234.1	237.4	236.3	229.8	223.3	213.5	210.3
37.5°	650.3	448.7	222.2	214.6	222.2	223.3	223.3	215.7	207.0	195.1	195.1
40°	688.2	437.9	208.1	204.8	212.4	211.3	205.9	200.5	203.8	197.3	197.3
42.5°	728.3	433.5	195.1	196.2	199.4	200.5	195.1	188.6	201.6	194.0	195.1
45°	778.2	436.8	186.4	185.3	192.9	191.8	188.6	183.2	187.5	168.0	162.6
47.5°	824.8	443.3	182.1	177.7	186.4	188.6	184.3	172.3	165.8	153.9	151.7
50°	867.1	457.4	177.7	169.1	177.7	182.1	174.5	161.5	153.9	146.3	146.3
52.5°	907.2	478.0	175.6	159.3	166.9	172.3	168.0	155.0	146.3	143.1	139.8
55°	948.4	496.4	172.3	152.8	155.0	165.8	164.7	147.4	138.7	138.7	137.6
57.5°	1006.9	521.3	168.0	142.0	146.3	158.2	158.2	144.2	134.4	135.5	136.6
60°	1066.5	550.6	163.7	131.1	134.4	150.7	152.8	139.8	131.1	132.2	131.1
62.5°	1161.9	604.8	155.0	118.1	124.6	140.9	146.3	134.4	126.8	129.0	129.0
65°	1306.0	698.0	136.6	107.3	114.9	132.2	139.8	129.0	120.3	126.8	124.6
67.5°	1538.0	825.9	114.9	98.6	108.4	123.6	132.2	122.5	114.9	124.6	121.4
70°	1746.1	888.7	98.6	91.0	98.6	113.8	123.6	116.0	108.4	118.1	113.8
72.5°	1661.5	696.9	85.6	82.4	90.0	103.0	114.9	107.3	99.7	105.1	100.8
75°	1433.9	554.9	74.8	73.7	80.2	93.2	105.1	99.7	92.1	94.3	92.1
77.5°	1087.1	458.5	63.9	62.9	68.3	83.5	94.3	90.0	82.4	81.3	81.3
80°	485.6	225.4	53.1	53.1	56.4	71.5	80.2	78.0	70.4	69.4	68.3
82.5°	159.3	85.6	43.4	41.2	45.5	59.6	71.5	69.4	61.8	59.6	57.4
85°	63.9	41.2	31.4	31.4	35.8	49.9	63.9	59.6	49.9	44.4	44.4
87.5°	21.7	17.3	16.3	16.3	22.8	33.6	47.7	40.1	35.8	31.4	32.5
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)