

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: P674868

Luminaire Tested: **CCW-SA-1B-827-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674868
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-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T2 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

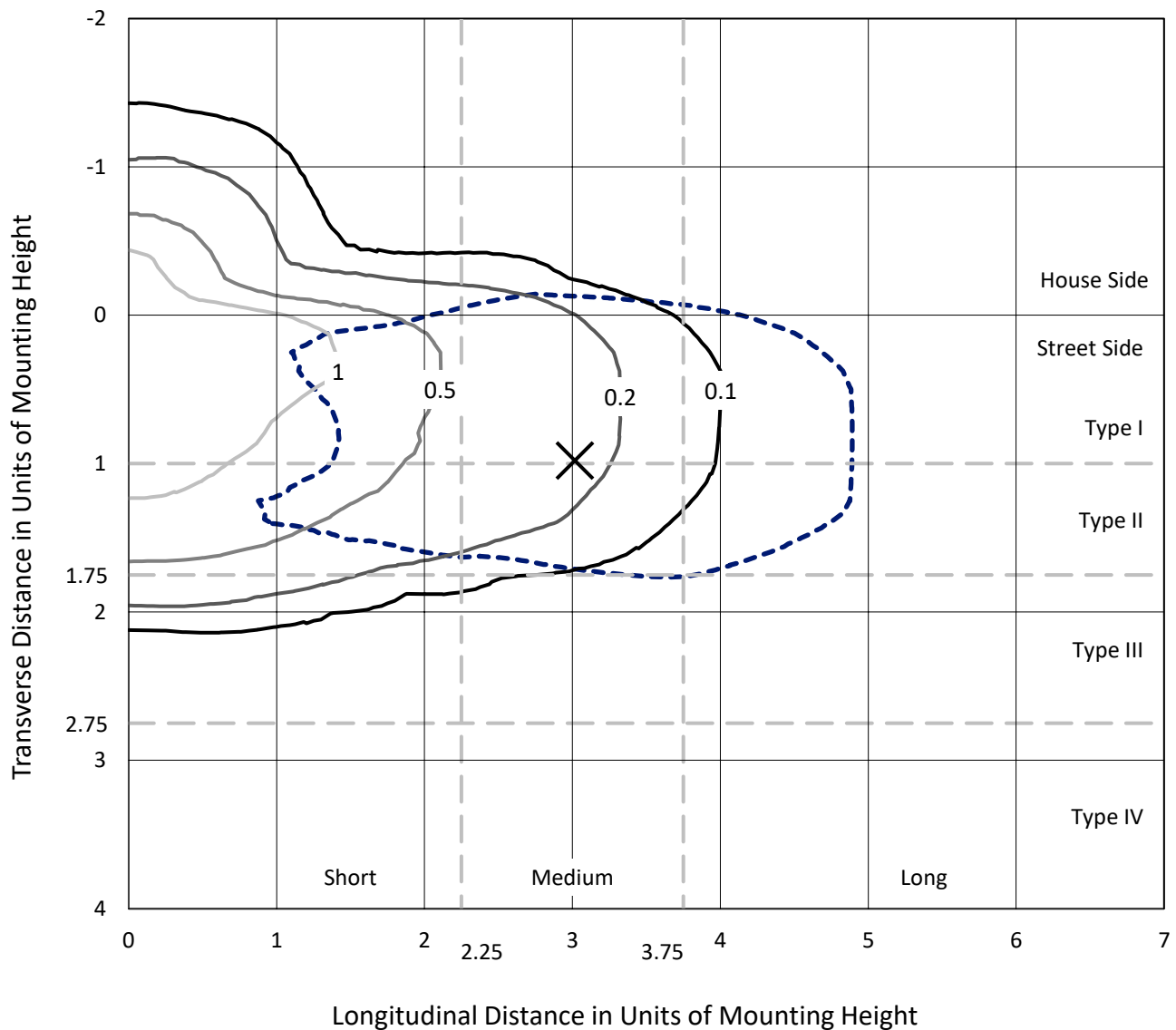
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

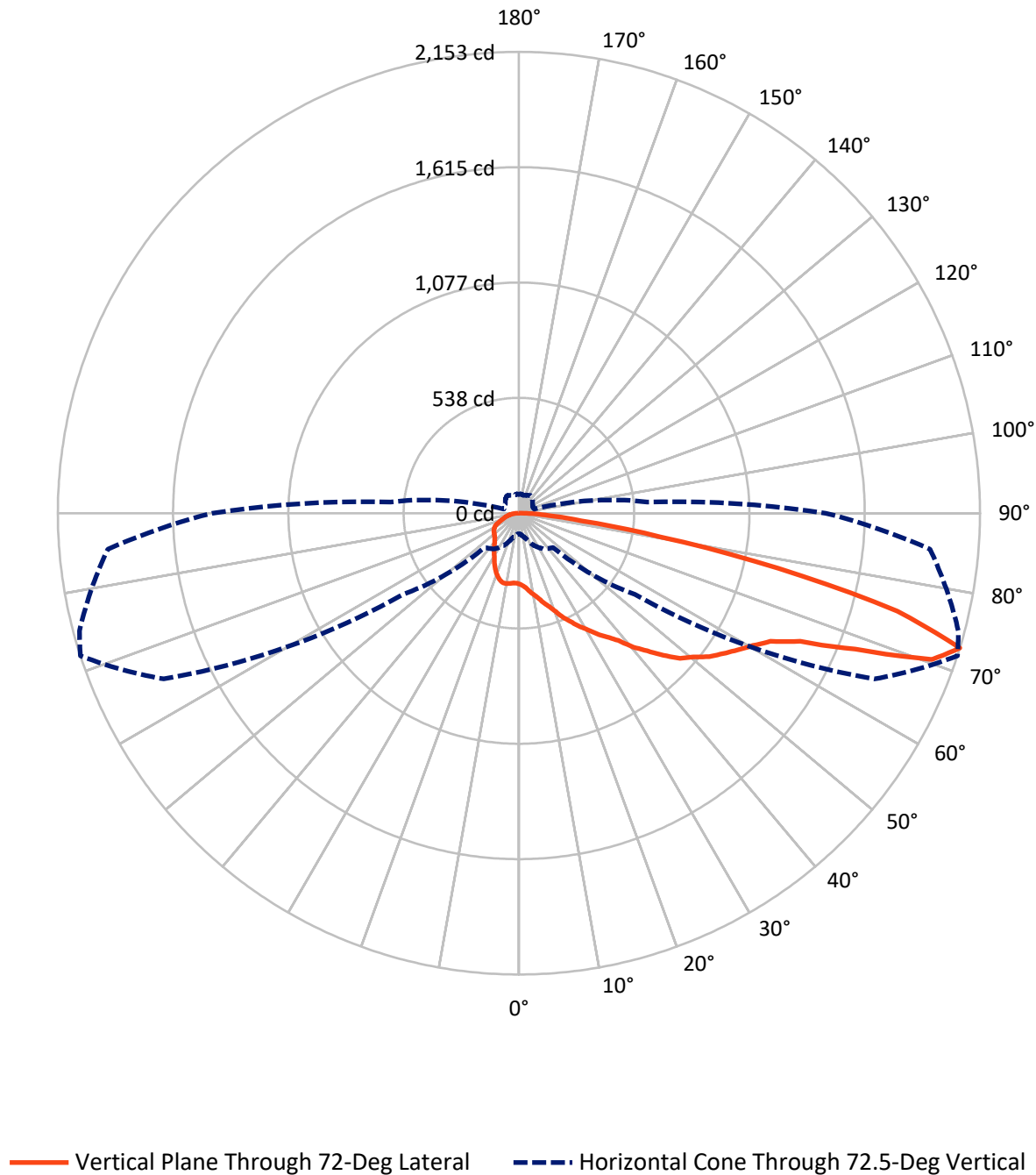
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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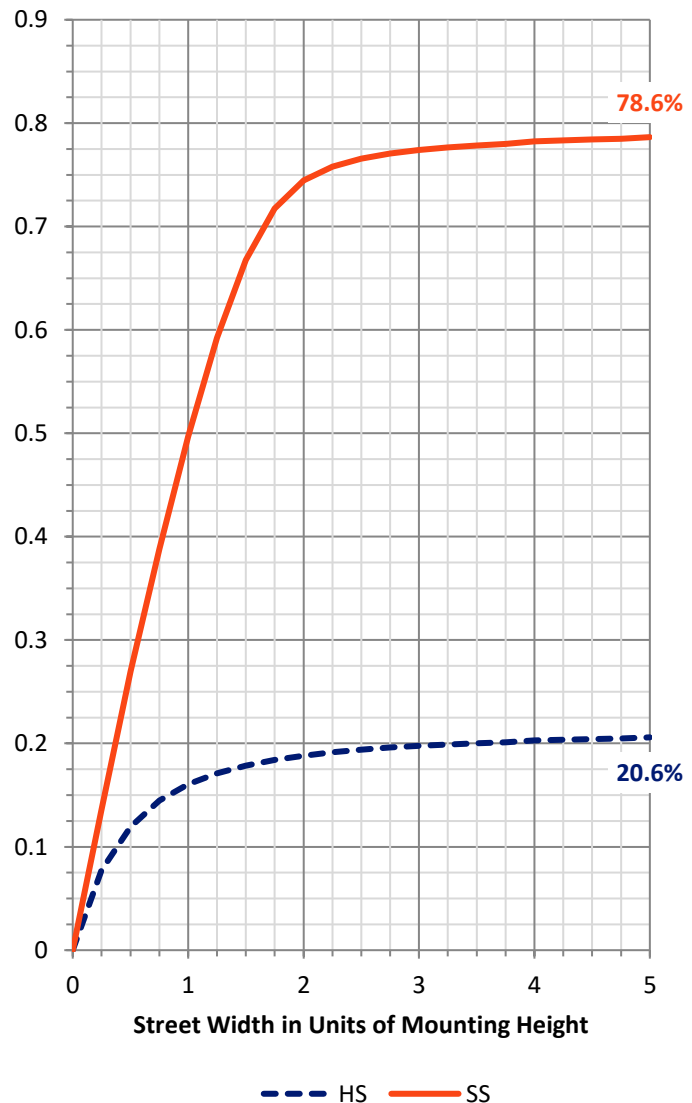
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.0	0.0	533.0
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	1999.5	0.0	1999.5
	% Fixture	79.0	0.0	79.0
Total	Lumens	2532.4	0.0	2532.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.3
10°-20°	101.6	4.0
20°-30°	175.8	6.9
30°-40°	259.7	10.3
40°-50°	386.3	15.3
50°-60°	529.6	20.9
60°-70°	574.4	22.7
70°-80°	405.0	16.0
80°-90°	67.3	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°	2532.4	100.0
0°-180°	2532.4	100.0

Coefficient of Utilization



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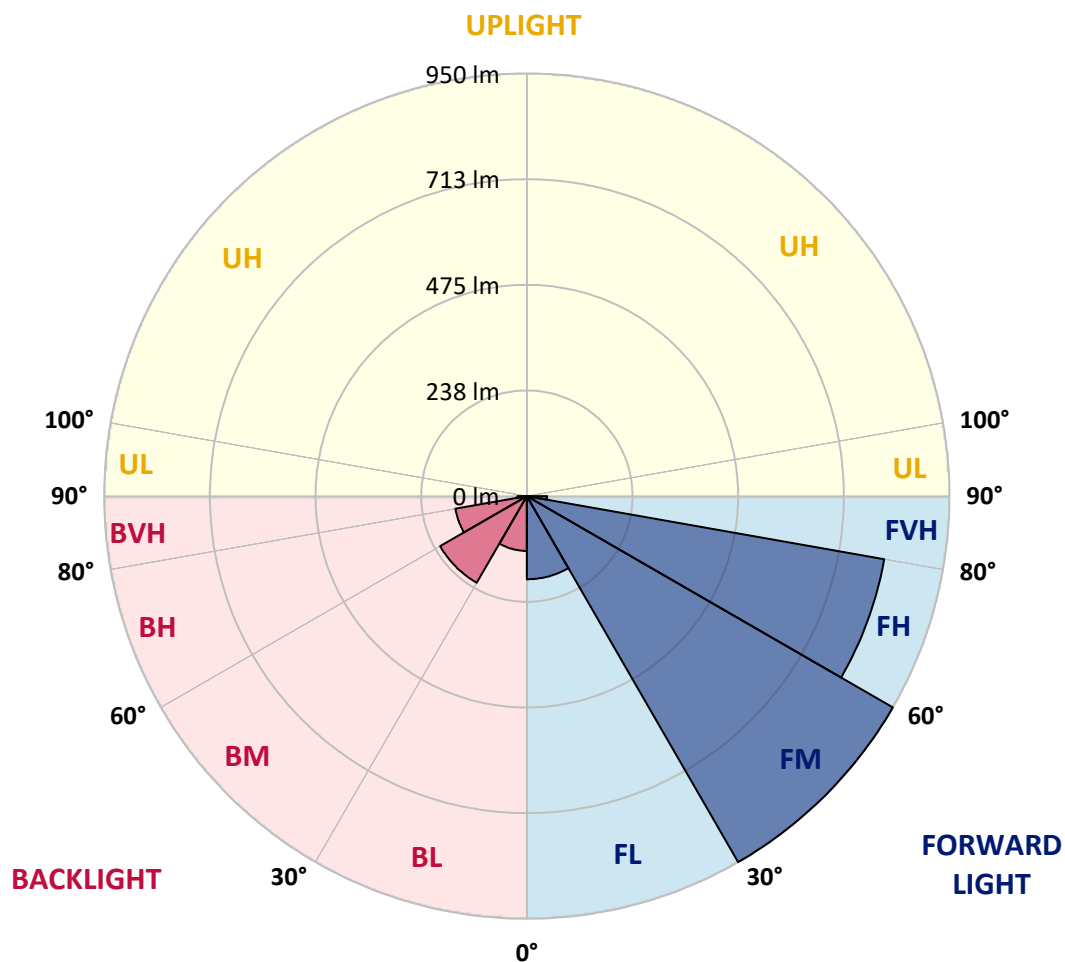
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.0	7.4			
FM	(30°-60°)	950.5	37.5			
FH	(60°-80°)	816.1	32.2			G1/1800
FVH	(80°-90°)	45.9	1.8			G1/100
BL	(0°-30°)	123.2	4.9	B1/500		
BM	(30°-60°)	225.1	8.9	B1/1000		
BH	(60°-80°)	163.3	6.4	B1/500		G1/500
BVH	(80°-90°)	21.4	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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	357.0	357.0	354.2	353.2	353.2	345.8	346.7	342.0	338.3	338.3	334.5
5°	375.7	373.8	373.8	373.8	369.1	366.3	365.4	357.0	350.4	351.4	340.1
7.5°	380.3	381.3	382.2	386.9	384.1	385.9	384.1	374.7	370.1	365.4	355.1
10°	383.1	385.0	385.0	391.5	391.5	396.2	399.0	395.3	386.9	382.2	365.4
12.5°	389.7	386.9	390.6	395.3	400.0	408.4	416.8	413.0	407.4	401.8	383.1
15°	389.7	390.6	393.4	400.9	408.4	416.8	431.7	437.3	434.5	424.3	404.6
17.5°	378.5	375.7	388.7	402.8	416.8	427.1	446.7	459.8	457.9	454.2	424.3
20°	379.4	382.2	386.9	399.0	421.4	440.1	464.4	485.9	490.6	488.7	450.4
22.5°	396.2	397.2	401.8	407.4	425.2	449.5	485.9	520.5	528.9	524.2	479.4
25°	413.0	420.5	420.5	424.3	430.8	456.0	499.9	548.5	560.7	561.6	509.3
27.5°	440.1	442.0	447.6	449.5	455.1	470.0	515.8	569.1	597.1	593.4	536.4
30°	471.9	472.8	476.6	474.7	475.6	494.3	530.8	592.5	630.8	631.7	565.4
32.5°	509.3	516.8	518.6	506.5	508.4	513.0	554.1	620.5	672.8	666.3	590.6
35°	564.4	567.2	561.6	556.0	542.0	539.2	578.4	648.5	709.3	716.7	628.0
37.5°	632.6	640.1	632.6	602.7	587.8	576.6	608.3	679.4	753.2	778.4	665.3
40°	696.2	695.2	687.8	660.7	634.5	626.1	651.3	722.3	821.4	845.7	719.5
42.5°	747.6	744.8	740.1	719.5	695.2	681.2	700.9	767.2	878.4	925.1	782.2
45°	792.4	788.7	789.6	766.3	742.9	750.4	750.4	818.6	945.7	1003.6	854.1
47.5°	834.5	836.4	833.5	815.8	798.0	817.7	807.4	877.5	1012.0	1076.5	914.8
50°	883.1	886.8	877.5	866.3	850.4	870.0	856.9	932.6	1055.0	1142.9	987.7
52.5°	928.9	932.6	941.0	927.0	911.1	927.0	897.1	984.0	1112.0	1207.3	1043.8
55°	940.1	938.2	984.9	999.9	1008.3	960.6	932.6	1027.9	1156.9	1248.5	1107.3
57.5°	888.7	893.4	956.9	999.9	1089.6	1048.5	972.8	1079.3	1203.6	1302.7	1166.2
60°	760.7	763.5	842.9	944.8	1075.6	1130.7	1081.2	1145.7	1255.0	1348.4	1232.6
62.5°	508.4	529.8	628.9	788.7	976.5	1153.1	1254.1	1257.8	1317.6	1406.4	1323.2
65°	268.2	278.5	356.0	485.0	740.1	1075.6	1416.7	1480.2	1442.8	1512.9	1454.0
67.5°	175.7	179.4	221.5	294.4	427.1	785.0	1435.3	1866.1	1694.2	1715.7	1663.4
70°	130.8	132.7	163.5	217.7	264.5	419.6	1176.5	2046.5	2045.6	1988.6	1911.9
72.5°	96.3	99.1	120.5	166.3	203.7	226.1	661.6	1830.6	2153.0	2124.1	1926.9
75°	75.7	77.6	88.8	129.0	164.5	148.6	335.5	1355.9	1826.0	1965.2	1763.3
77.5°	61.7	63.5	70.1	93.4	131.8	114.9	160.7	874.7	1238.2	1414.8	1349.4
80°	51.4	51.4	56.1	66.3	101.9	86.9	95.3	491.5	667.2	736.4	612.1
82.5°	43.9	43.0	46.7	48.6	75.7	62.6	61.7	222.4	293.4	311.2	229.9
85°	28.0	29.0	43.9	42.1	49.5	43.0	34.6	105.6	138.3	141.1	86.0
87.5°	11.2	11.2	18.7	23.4	28.0	26.2	16.8	47.7	60.7	60.7	24.3
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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	333.6	329.9	327.1	325.2	320.5	315.9	316.8	315.9	312.1	310.2	310.2
5°	337.3	333.6	328.9	321.5	316.8	311.2	313.0	309.3	305.6	308.4	303.7
7.5°	346.7	340.1	333.6	322.4	314.9	306.5	302.8	300.9	298.1	296.2	296.2
10°	359.8	350.4	338.3	321.5	309.3	296.2	294.4	290.6	287.8	287.8	286.9
12.5°	372.9	362.6	342.0	314.9	294.4	285.0	284.1	285.0	286.9	287.8	288.8
15°	389.7	372.9	341.1	302.8	282.2	278.5	283.1	286.9	290.6	294.4	293.4
17.5°	405.6	385.9	332.7	287.8	271.9	272.9	281.3	288.8	296.2	300.0	300.9
20°	427.1	398.1	320.5	270.1	261.7	270.1	281.3	290.6	299.0	303.7	304.6
22.5°	451.4	412.1	304.6	254.2	253.2	261.7	272.9	286.9	296.2	304.6	303.7
25°	472.8	421.4	284.1	241.1	243.0	248.6	261.7	276.6	285.9	295.3	292.5
27.5°	486.9	423.3	262.6	231.7	231.7	237.4	249.5	258.8	267.3	274.7	275.7
30°	502.7	419.6	238.3	219.6	219.6	227.1	231.7	237.4	242.0	243.9	245.8
32.5°	521.4	411.2	223.3	210.3	210.3	215.9	218.7	216.8	215.9	211.2	214.0
35°	539.2	399.0	206.5	198.1	201.8	204.6	203.7	198.1	192.5	184.1	181.3
37.5°	560.7	386.9	191.6	185.0	191.6	192.5	192.5	186.0	178.5	168.2	168.2
40°	593.4	377.5	179.4	176.6	183.2	182.2	177.5	172.9	175.7	170.1	170.1
42.5°	628.0	373.8	168.2	169.1	171.9	172.9	168.2	162.6	173.8	167.3	168.2
45°	671.0	376.6	160.7	159.8	166.3	165.4	162.6	157.9	161.7	144.8	140.2
47.5°	711.1	382.2	157.0	153.3	160.7	162.6	158.9	148.6	143.0	132.7	130.8
50°	747.6	394.3	153.3	145.8	153.3	157.0	150.5	139.2	132.7	126.2	126.2
52.5°	782.2	412.1	151.4	137.4	143.9	148.6	144.8	133.6	126.2	123.4	120.5
55°	817.7	428.0	148.6	131.8	133.6	143.0	142.0	127.1	119.6	119.6	118.7
57.5°	868.1	449.5	144.8	122.4	126.2	136.4	136.4	124.3	115.9	116.8	117.7
60°	919.5	474.7	141.1	113.1	115.9	129.9	131.8	120.5	113.1	114.0	113.1
62.5°	1001.8	521.4	133.6	101.9	107.5	121.5	126.2	115.9	109.3	111.2	111.2
65°	1126.0	601.8	117.7	92.5	99.1	114.0	120.5	111.2	103.7	109.3	107.5
67.5°	1326.0	712.1	99.1	85.0	93.4	106.5	114.0	105.6	99.1	107.5	104.7
70°	1505.4	766.3	85.0	78.5	85.0	98.1	106.5	100.0	93.4	101.9	98.1
72.5°	1432.5	600.9	73.8	71.0	77.6	88.8	99.1	92.5	86.0	90.6	86.9
75°	1236.3	478.4	64.5	63.5	69.2	80.4	90.6	86.0	79.4	81.3	79.4
77.5°	937.3	395.3	55.1	54.2	58.9	72.0	81.3	77.6	71.0	70.1	70.1
80°	418.6	194.4	45.8	45.8	48.6	61.7	69.2	67.3	60.7	59.8	58.9
82.5°	137.4	73.8	37.4	35.5	39.2	51.4	61.7	59.8	53.3	51.4	49.5
85°	55.1	35.5	27.1	27.1	30.8	43.0	55.1	51.4	43.0	38.3	38.3
87.5°	18.7	15.0	14.0	14.0	19.6	29.0	41.1	34.6	30.8	27.1	28.0
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)