

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: P675753

Luminaire Tested: **CCW-SA-1A-835-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675753
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

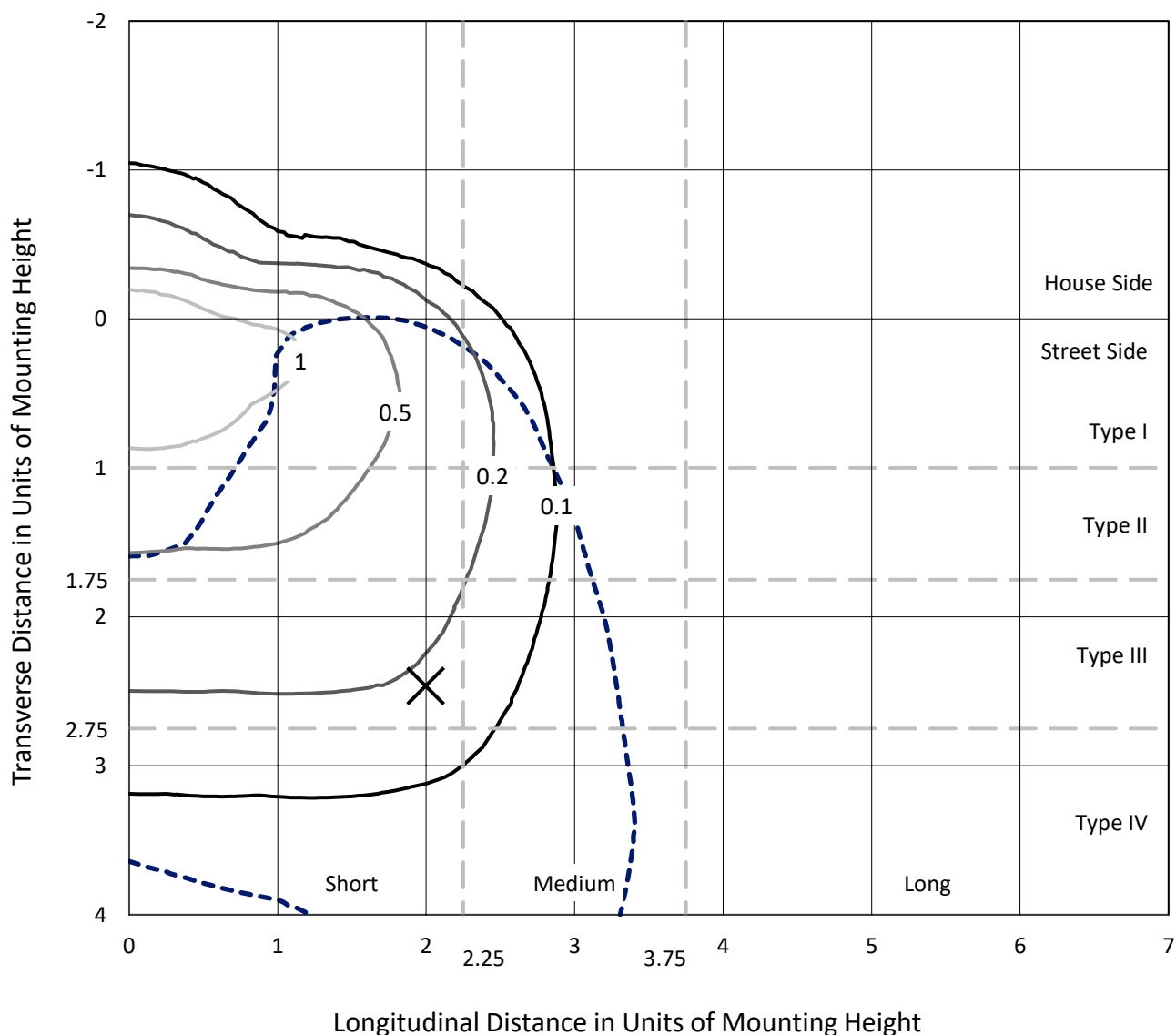
Lumens per Lamp: N/A
Luminaire Lumens: 2209.1 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

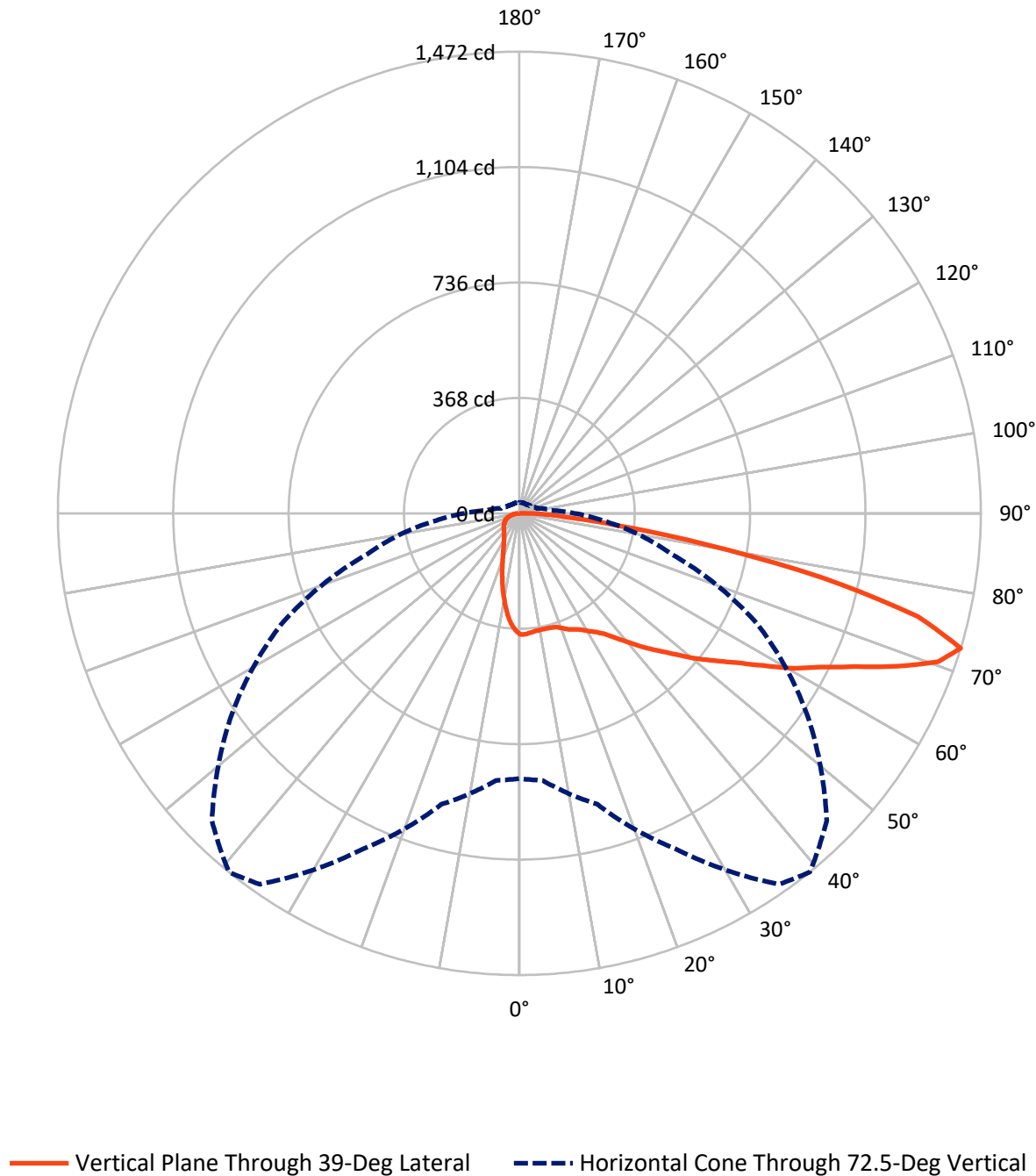
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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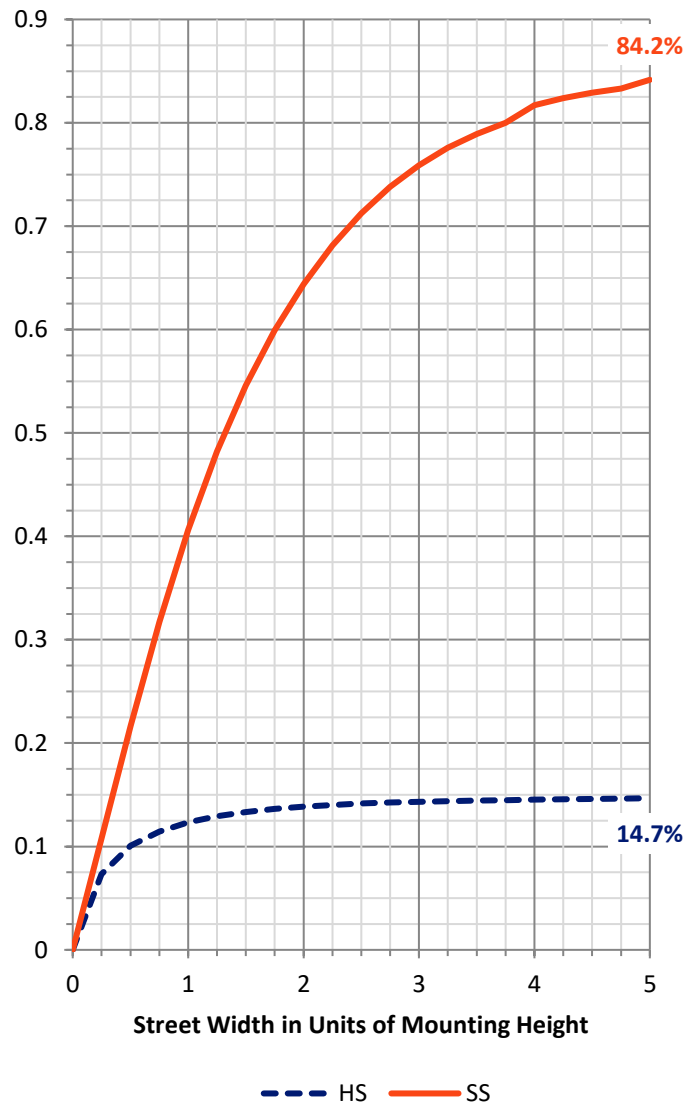
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.3	0.0	328.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1880.7	0.0	1880.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	2209.1	0.0	2209.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	1.5
10°-20°	87.2	3.9
20°-30°	132.9	6.0
30°-40°	194.4	8.8
40°-50°	297.6	13.5
50°-60°	436.4	19.8
60°-70°	556.6	25.2
70°-80°	402.1	18.2
80°-90°	67.8	3.1
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°	2209.1	100.0
0°-180°	2209.1	100.0

Coefficient of Utilization



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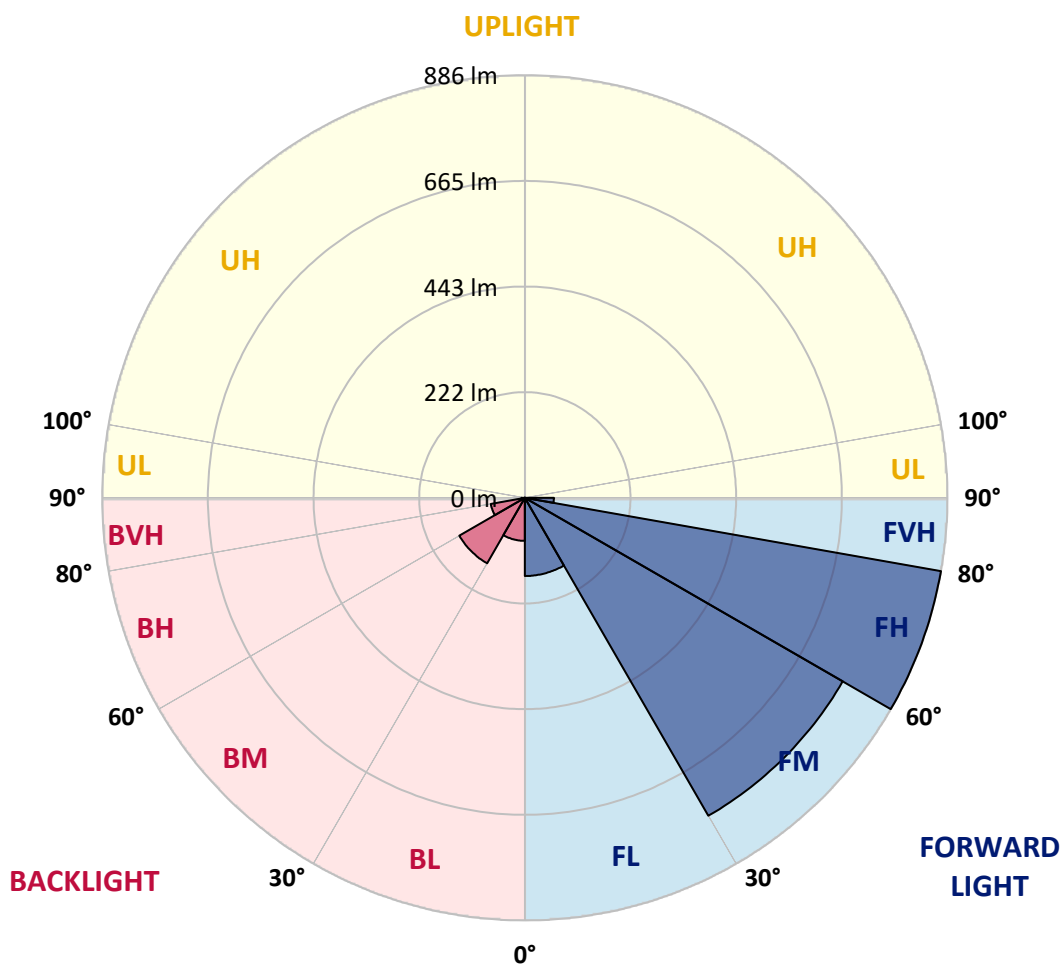
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.9	7.4			
FM	(30°-60°)	769.7	34.8			
FH	(60°-80°)	886.1	40.1			G1/1800
FVH	(80°-90°)	61.0	2.8			G1/100
BL	(0°-30°)	90.3	4.1	B0/110		
BM	(30°-60°)	158.6	7.2	B0/220		
BH	(60°-80°)	72.5	3.3	B0/110		G0/110
BVH	(80°-90°)	6.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7
2.5°	392.5	393.3	391.7	390.0	389.2	385.9	389.2	387.5	385.9	385.9	385.9
5°	387.5	388.3	388.3	386.7	387.5	381.7	380.9	381.7	379.2	377.6	376.7
7.5°	380.0	381.7	385.0	384.2	380.9	378.4	379.2	378.4	374.2	371.7	365.1
10°	374.2	375.9	377.6	379.2	378.4	377.6	376.7	373.4	372.6	366.8	360.1
12.5°	368.4	368.4	369.3	375.9	376.7	376.7	371.7	371.7	369.3	368.4	358.5
15°	362.6	365.1	371.7	373.4	376.7	378.4	375.9	375.9	371.7	365.9	358.5
17.5°	364.3	368.4	375.1	379.2	380.9	380.9	384.2	381.7	375.9	372.6	365.1
20°	372.6	373.4	381.7	389.2	390.8	390.8	387.5	385.0	380.9	375.1	365.1
22.5°	377.6	383.4	393.3	397.5	402.4	402.4	398.3	392.5	386.7	380.9	370.1
25°	399.1	400.0	404.1	410.7	413.2	409.9	405.8	399.1	391.7	385.9	375.9
27.5°	414.1	418.2	423.2	426.5	422.4	419.9	416.6	409.1	403.3	398.3	384.2
30°	441.4	436.5	439.8	441.4	434.0	435.6	426.5	419.9	413.2	413.2	397.5
32.5°	458.0	462.2	458.9	458.0	452.2	451.4	445.6	438.1	434.0	439.0	417.4
35°	487.1	484.6	484.6	483.8	477.1	473.0	473.0	459.7	463.9	474.6	448.1
37.5°	502.0	501.2	506.2	510.3	503.7	506.2	503.7	497.9	499.5	518.6	486.3
40°	517.0	522.8	532.7	534.4	538.5	541.9	540.2	539.4	546.0	576.7	537.7
42.5°	531.1	536.0	551.0	564.3	574.2	585.0	585.8	585.8	607.4	651.4	599.9
45°	549.3	553.5	574.2	600.8	617.4	624.8	631.5	638.9	668.0	720.3	666.3
47.5°	574.2	577.5	602.4	635.6	668.0	672.1	685.4	693.7	737.7	790.8	734.4
50°	609.9	607.4	627.3	675.4	707.0	726.9	746.0	760.9	804.1	862.1	787.5
52.5°	638.9	638.9	653.9	717.8	760.9	780.0	799.9	820.7	870.4	933.5	830.6
55°	688.7	683.7	692.9	759.3	821.5	839.7	877.9	895.3	943.5	986.6	867.1
57.5°	722.7	725.2	736.0	814.0	892.9	915.3	953.4	965.9	1008.2	1042.2	893.7
60°	767.6	759.3	782.5	874.6	971.7	1003.2	1034.7	1042.2	1073.7	1077.9	906.1
62.5°	810.7	809.0	829.0	935.2	1056.3	1078.7	1111.1	1119.4	1132.7	1106.1	888.7
65°	837.3	848.0	885.4	1001.6	1152.6	1177.5	1209.8	1193.2	1178.3	1081.2	803.2
67.5°	873.8	878.7	936.0	1073.7	1263.8	1301.1	1329.3	1263.8	1152.6	979.1	676.3
70°	882.1	895.3	970.0	1149.3	1378.3	1416.4	1418.1	1239.7	1058.8	796.6	490.4
72.5°	845.6	854.7	960.1	1180.8	1443.8	1472.0	1386.6	1121.0	838.9	502.0	267.2
75°	711.1	736.9	835.6	1083.7	1323.5	1312.7	1175.0	855.5	503.7	222.4	112.9
77.5°	495.4	496.2	599.1	788.3	990.8	988.3	838.1	496.2	215.7	89.6	66.4
80°	219.9	235.7	297.9	424.9	601.6	601.6	488.7	246.4	107.9	58.1	45.6
82.5°	129.4	134.4	159.3	198.3	292.9	308.7	234.0	164.3	73.9	36.5	28.2
85°	95.4	103.7	118.7	119.5	138.6	141.1	129.4	142.7	50.6	19.9	23.2
87.5°	71.4	76.3	94.6	78.8	73.9	69.7	79.7	146.0	19.1	10.0	7.5
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°	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7	386.7
2.5°	382.5	382.5	380.9	377.6	377.6	370.9	372.6	374.2	370.1	370.1	370.9
5°	376.7	373.4	369.3	364.3	361.0	351.8	350.2	344.4	343.5	341.9	339.4
7.5°	365.1	360.1	352.7	345.2	334.4	326.1	316.1	307.9	304.5	302.0	301.2
10°	354.3	353.5	341.0	326.1	309.5	293.7	278.8	268.0	261.4	257.2	256.4
12.5°	354.3	347.7	330.3	309.5	285.4	262.2	243.1	228.2	219.1	212.4	209.9
15°	352.7	346.0	322.8	291.3	263.9	232.3	205.8	190.0	176.7	170.1	170.9
17.5°	354.3	344.4	312.0	278.0	239.8	205.8	174.3	155.2	141.9	136.9	136.1
20°	355.1	342.7	303.7	259.7	214.9	176.7	146.9	128.6	118.7	115.3	115.3
22.5°	353.5	337.7	291.3	238.1	193.3	152.7	127.8	112.0	105.4	101.2	102.9
25°	361.0	336.9	279.6	219.9	168.4	132.8	113.7	102.1	97.9	95.4	96.3
27.5°	362.6	336.9	270.5	199.1	146.9	117.8	102.9	95.4	92.1	90.4	89.6
30°	369.3	338.6	259.7	178.4	129.4	106.2	94.6	90.4	88.0	87.1	87.1
32.5°	387.5	343.5	248.1	161.0	114.5	96.3	88.8	85.5	83.8	83.0	83.8
35°	409.1	356.8	235.7	142.7	103.7	89.6	83.8	81.3	80.5	80.5	80.5
37.5°	442.3	376.7	224.9	127.8	94.6	83.0	78.8	78.0	77.2	78.0	78.0
40°	480.4	398.3	214.9	116.2	88.0	78.8	74.7	74.7	73.9	74.7	75.5
42.5°	524.4	424.9	205.0	104.6	82.1	75.5	72.2	71.4	70.5	72.2	73.0
45°	585.0	461.4	198.3	97.9	78.0	72.2	68.9	68.9	68.0	68.0	69.7
47.5°	635.6	496.2	198.3	91.3	75.5	69.7	66.4	66.4	64.7	65.6	65.6
50°	677.9	526.1	202.5	89.6	72.2	67.2	64.7	63.1	62.2	62.2	62.2
52.5°	706.1	544.3	205.8	88.0	70.5	63.9	62.2	61.4	59.7	58.9	59.7
55°	734.4	556.8	206.6	88.0	68.0	60.6	58.9	58.9	57.3	56.4	56.4
57.5°	745.1	551.8	195.0	86.3	66.4	58.1	56.4	55.6	54.8	53.9	53.9
60°	740.2	533.6	169.3	82.1	64.7	56.4	53.1	53.1	53.1	51.4	52.3
62.5°	706.1	471.3	136.1	75.5	62.2	53.1	49.8	51.4	51.4	50.6	50.6
65°	616.5	389.2	110.4	69.7	58.9	50.6	47.3	49.8	50.6	49.8	49.0
67.5°	492.9	299.6	91.3	63.1	54.8	46.5	44.0	46.5	47.3	46.5	46.5
70°	338.6	193.3	73.9	56.4	49.0	42.3	39.8	41.5	41.5	42.3	42.3
72.5°	175.1	104.6	60.6	48.1	42.3	38.2	35.7	35.7	34.9	34.9	34.9
75°	87.1	71.4	50.6	40.7	35.7	32.4	30.7	29.0	29.0	29.0	29.0
77.5°	60.6	54.8	41.5	32.4	29.0	26.6	26.6	24.1	24.1	24.1	24.1
80°	45.6	43.1	31.5	24.9	22.4	20.7	20.7	19.9	19.9	19.1	19.1
82.5°	32.4	34.9	24.1	18.3	16.6	15.8	15.8	14.9	14.9	13.3	13.3
85°	25.7	29.0	18.3	13.3	12.4	10.8	10.8	10.0	10.0	9.1	8.3
87.5°	7.5	15.8	7.5	5.0	5.0	5.0	5.0	4.1	4.1	3.3	3.3
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)