

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: P675666

Luminaire Tested: **CCW-SA-1B-727-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675666
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-727-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

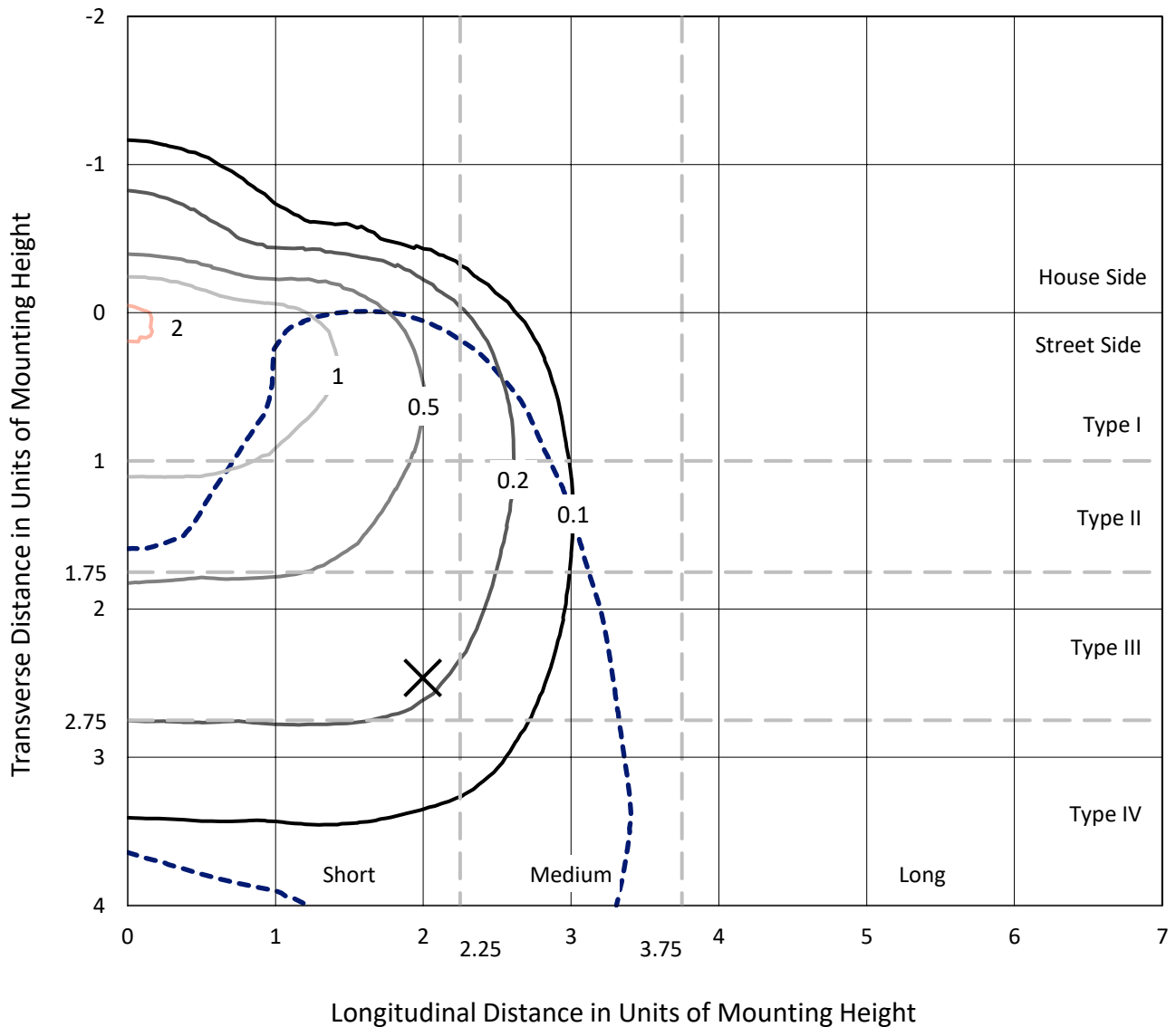
Lumens per Lamp: N/A
Luminaire Lumens: 2830.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): 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

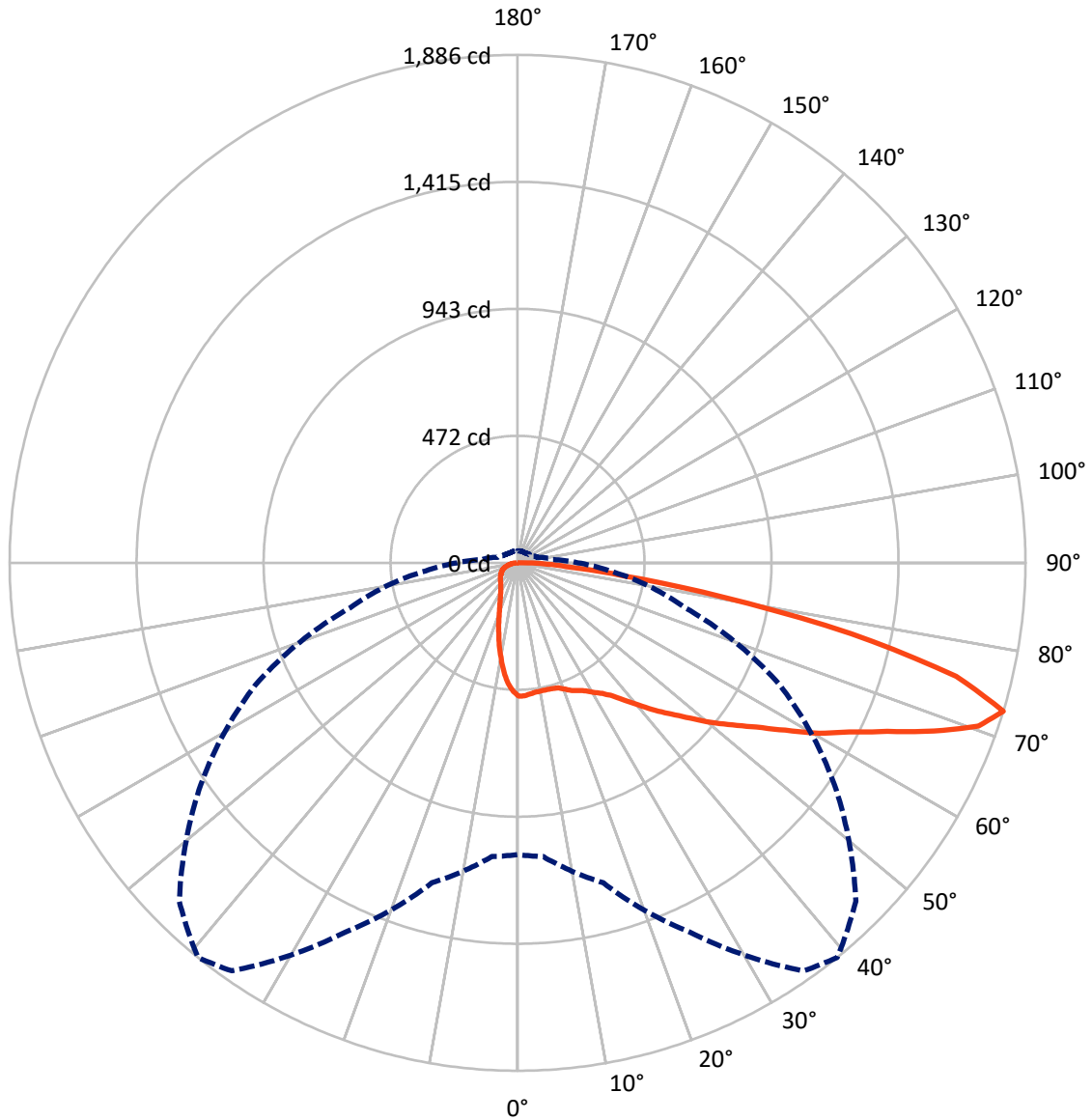
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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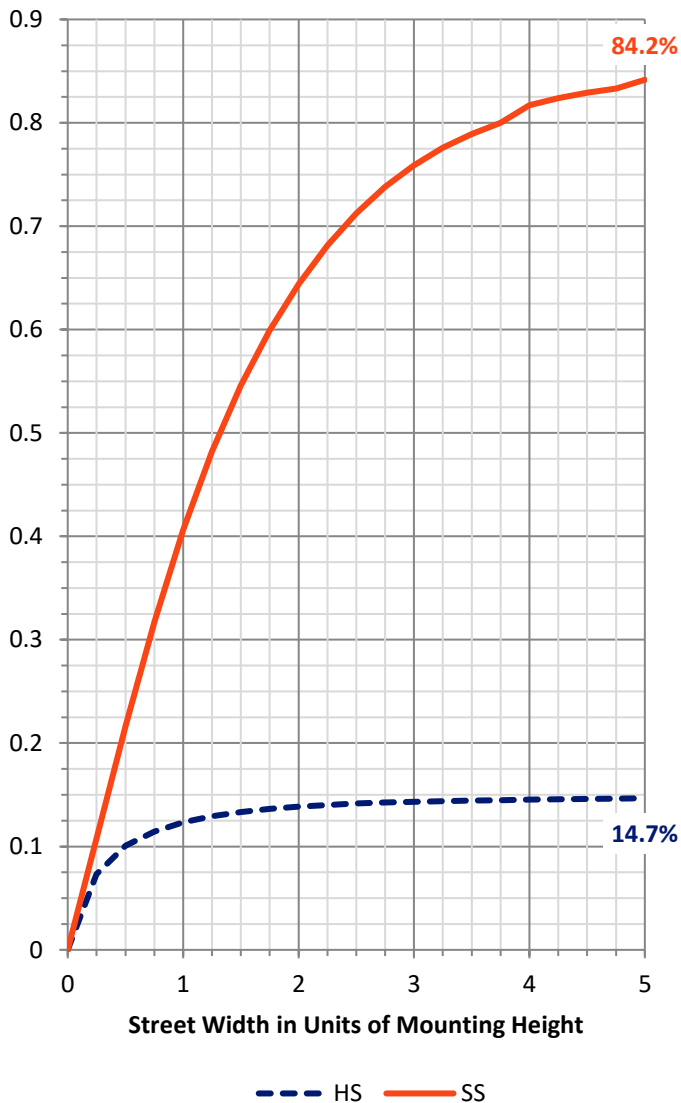
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.6	0.0	420.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2409.6	0.0	2409.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	2830.3	0.0	2830.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.5
10°-20°	111.7	3.9
20°-30°	170.2	6.0
30°-40°	249.0	8.8
40°-50°	381.2	13.5
50°-60°	559.1	19.8
60°-70°	713.1	25.2
70°-80°	515.2	18.2
80°-90°	86.9	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°	2830.3	100.0
0°-180°	2830.3	100.0

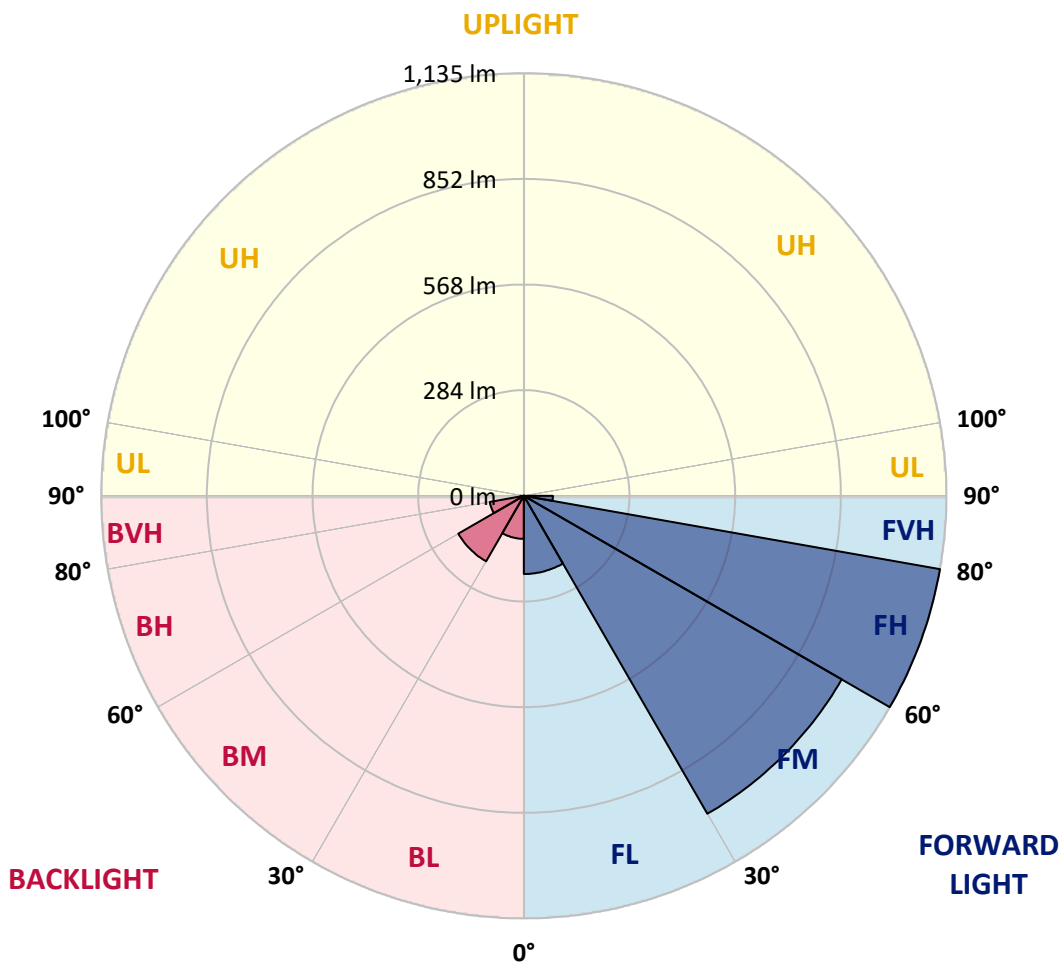


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.0	7.4			
FM (30°-60°)	986.1	34.8			
FH (60°-80°)	1135.3	40.1			G1/1800
FVH (80°-90°)	78.1	2.8			G1/100
BL (0°-30°)	115.7	4.1	B1/500		
BM (30°-60°)	203.2	7.2	B0/220		
BH (60°-80°)	92.9	3.3	B0/110		G0/110
BVH (80°-90°)	8.8	0.3			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4
2.5°	502.9	503.9	501.8	499.7	498.6	494.4	498.6	496.5	494.4	494.4	494.4
5°	496.5	497.5	497.5	495.4	496.5	489.0	488.0	489.0	485.9	483.7	482.7
7.5°	486.9	489.0	493.3	492.2	488.0	484.8	485.9	484.8	479.5	476.3	467.8
10°	479.5	481.6	483.7	485.9	484.8	483.7	482.7	478.4	477.3	469.9	461.4
12.5°	472.0	472.0	473.1	481.6	482.7	482.7	476.3	476.3	473.1	472.0	459.3
15°	464.6	467.8	476.3	478.4	482.7	484.8	481.6	481.6	476.3	468.8	459.3
17.5°	466.7	472.0	480.5	485.9	488.0	488.0	492.2	489.0	481.6	477.3	467.8
20°	477.3	478.4	489.0	498.6	500.7	500.7	496.5	493.3	488.0	480.5	467.8
22.5°	483.7	491.2	503.9	509.2	515.6	515.6	510.3	502.9	495.4	488.0	474.2
25°	511.4	512.4	517.7	526.3	529.4	525.2	519.9	511.4	501.8	494.4	481.6
27.5°	530.5	535.8	542.2	546.5	541.1	537.9	533.7	524.1	516.7	510.3	492.2
30°	565.6	559.2	563.5	565.6	556.0	558.1	546.5	537.9	529.4	529.4	509.2
32.5°	586.8	592.2	587.9	586.8	579.4	578.3	570.9	561.3	556.0	562.4	534.8
35°	624.1	620.9	620.9	619.8	611.3	606.0	606.0	589.0	594.3	608.1	574.1
37.5°	643.2	642.1	648.5	653.8	645.3	648.5	645.3	637.9	640.0	664.5	623.0
40°	662.3	669.8	682.5	684.7	690.0	694.2	692.1	691.0	699.5	738.9	688.9
42.5°	680.4	686.8	705.9	722.9	735.7	749.5	750.6	750.6	778.2	834.6	768.6
45°	703.8	709.1	735.7	769.7	791.0	800.5	809.0	818.6	855.8	922.8	853.7
47.5°	735.7	739.9	771.8	814.4	855.8	861.1	878.1	888.8	945.1	1013.2	940.9
50°	781.4	778.2	803.7	865.4	905.8	931.3	955.8	974.9	1030.2	1104.6	1008.9
52.5°	818.6	818.6	837.7	919.6	974.9	999.3	1024.9	1051.4	1115.2	1196.0	1064.2
55°	882.4	876.0	887.7	972.8	1052.5	1075.9	1124.8	1147.1	1208.8	1264.1	1111.0
57.5°	926.0	929.2	943.0	1042.9	1143.9	1172.6	1221.5	1237.5	1291.7	1335.3	1145.0
60°	983.4	972.8	1002.5	1120.5	1244.9	1285.3	1325.7	1335.3	1375.7	1381.0	1160.9
62.5°	1038.7	1036.6	1062.1	1198.2	1353.4	1382.1	1423.5	1434.2	1451.2	1417.2	1138.6
65°	1072.7	1086.5	1134.4	1283.2	1476.7	1508.6	1550.0	1528.8	1509.6	1385.3	1029.1
67.5°	1119.5	1125.9	1199.2	1375.7	1619.2	1667.0	1703.1	1619.2	1476.7	1254.5	866.5
70°	1130.1	1147.1	1242.8	1472.4	1765.9	1814.8	1816.9	1588.3	1356.6	1020.6	628.3
72.5°	1083.3	1095.0	1230.0	1512.8	1849.9	1886.0	1776.5	1436.3	1074.8	643.2	342.3
75°	911.1	944.1	1070.6	1388.5	1695.7	1681.9	1505.4	1096.1	645.3	284.9	144.6
77.5°	634.7	635.8	767.6	1010.0	1269.4	1266.2	1073.8	635.8	276.4	114.8	85.1
80°	281.7	301.9	381.7	544.3	770.8	770.8	626.2	315.8	138.2	74.4	58.5
82.5°	165.8	172.2	204.1	254.1	375.3	395.5	299.8	210.5	94.6	46.8	36.1
85°	122.3	132.9	152.0	153.1	177.5	180.7	165.8	182.9	64.9	25.5	29.8
87.5°	91.4	97.8	121.2	101.0	94.6	89.3	102.1	187.1	24.5	12.8	9.6
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°	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4	495.4
2.5°	490.1	490.1	488.0	483.7	483.7	475.2	477.3	479.5	474.2	474.2	475.2
5°	482.7	478.4	473.1	466.7	462.5	450.8	448.6	441.2	440.1	438.0	434.8
7.5°	467.8	461.4	451.8	442.3	428.4	417.8	405.1	394.4	390.2	387.0	385.9
10°	454.0	452.9	436.9	417.8	396.5	376.3	357.2	343.4	334.9	329.6	328.5
12.5°	454.0	445.5	423.1	396.5	365.7	335.9	311.5	292.4	280.7	272.2	269.0
15°	451.8	443.3	413.6	373.2	338.1	297.7	263.7	243.5	226.4	217.9	219.0
17.5°	454.0	441.2	399.7	356.1	307.2	263.7	223.3	198.8	181.8	175.4	174.4
20°	455.0	439.1	389.1	332.8	275.4	226.4	188.2	164.8	152.0	147.8	147.8
22.5°	452.9	432.7	373.2	305.1	247.7	195.6	163.7	143.5	135.0	129.7	131.8
25°	462.5	431.6	358.3	281.7	215.8	170.1	145.6	130.8	125.4	122.3	123.3
27.5°	464.6	431.6	346.6	255.2	188.2	151.0	131.8	122.3	118.0	115.9	114.8
30°	473.1	433.8	332.8	228.6	165.8	136.1	121.2	115.9	112.7	111.6	111.6
32.5°	496.5	440.1	317.9	206.2	146.7	123.3	113.8	109.5	107.4	106.3	107.4
35°	524.1	457.1	301.9	182.9	132.9	114.8	107.4	104.2	103.1	103.1	103.1
37.5°	566.6	482.7	288.1	163.7	121.2	106.3	101.0	99.9	98.9	99.9	99.9
40°	615.6	510.3	275.4	148.8	112.7	101.0	95.7	95.7	94.6	95.7	96.7
42.5°	671.9	544.3	262.6	134.0	105.3	96.7	92.5	91.4	90.4	92.5	93.6
45°	749.5	591.1	254.1	125.4	99.9	92.5	88.2	88.2	87.2	87.2	89.3
47.5°	814.4	635.8	254.1	116.9	96.7	89.3	85.1	85.1	82.9	84.0	84.0
50°	868.6	674.0	259.4	114.8	92.5	86.1	82.9	80.8	79.7	79.7	79.7
52.5°	904.7	697.4	263.7	112.7	90.4	81.9	79.7	78.7	76.5	75.5	76.5
55°	940.9	713.4	264.7	112.7	87.2	77.6	75.5	75.5	73.4	72.3	72.3
57.5°	954.7	707.0	249.8	110.6	85.1	74.4	72.3	71.2	70.2	69.1	69.1
60°	948.3	683.6	216.9	105.3	82.9	72.3	68.0	68.0	68.0	65.9	67.0
62.5°	904.7	603.9	174.4	96.7	79.7	68.0	63.8	65.9	65.9	64.9	64.9
65°	789.9	498.6	141.4	89.3	75.5	64.9	60.6	63.8	64.9	63.8	62.7
67.5°	631.5	383.8	116.9	80.8	70.2	59.5	56.3	59.5	60.6	59.5	59.5
70°	433.8	247.7	94.6	72.3	62.7	54.2	51.0	53.2	53.2	54.2	54.2
72.5°	224.3	134.0	77.6	61.7	54.2	48.9	45.7	45.7	44.7	44.7	44.7
75°	111.6	91.4	64.9	52.1	45.7	41.5	39.3	37.2	37.2	37.2	37.2
77.5°	77.6	70.2	53.2	41.5	37.2	34.0	34.0	30.8	30.8	30.8	30.8
80°	58.5	55.3	40.4	31.9	28.7	26.6	26.6	25.5	25.5	24.5	24.5
82.5°	41.5	44.7	30.8	23.4	21.3	20.2	20.2	19.1	19.1	17.0	17.0
85°	33.0	37.2	23.4	17.0	15.9	13.8	13.8	12.8	12.8	11.7	10.6
87.5°	9.6	20.2	9.6	6.4	6.4	6.4	6.4	5.3	5.3	4.3	4.3
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)