

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: P675754

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675754
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

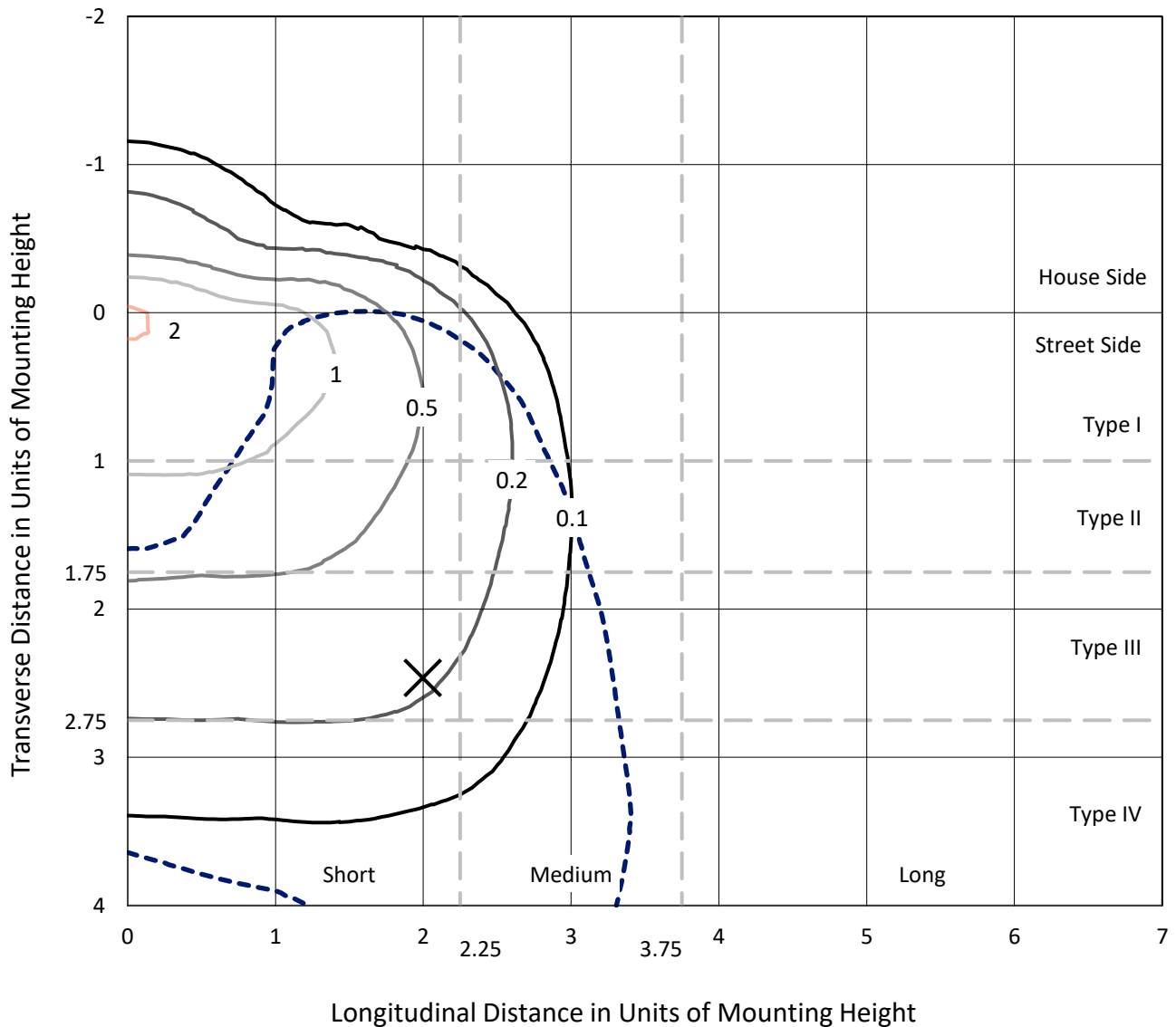
Lumens per Lamp: N/A
Luminaire Lumens: 2788.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

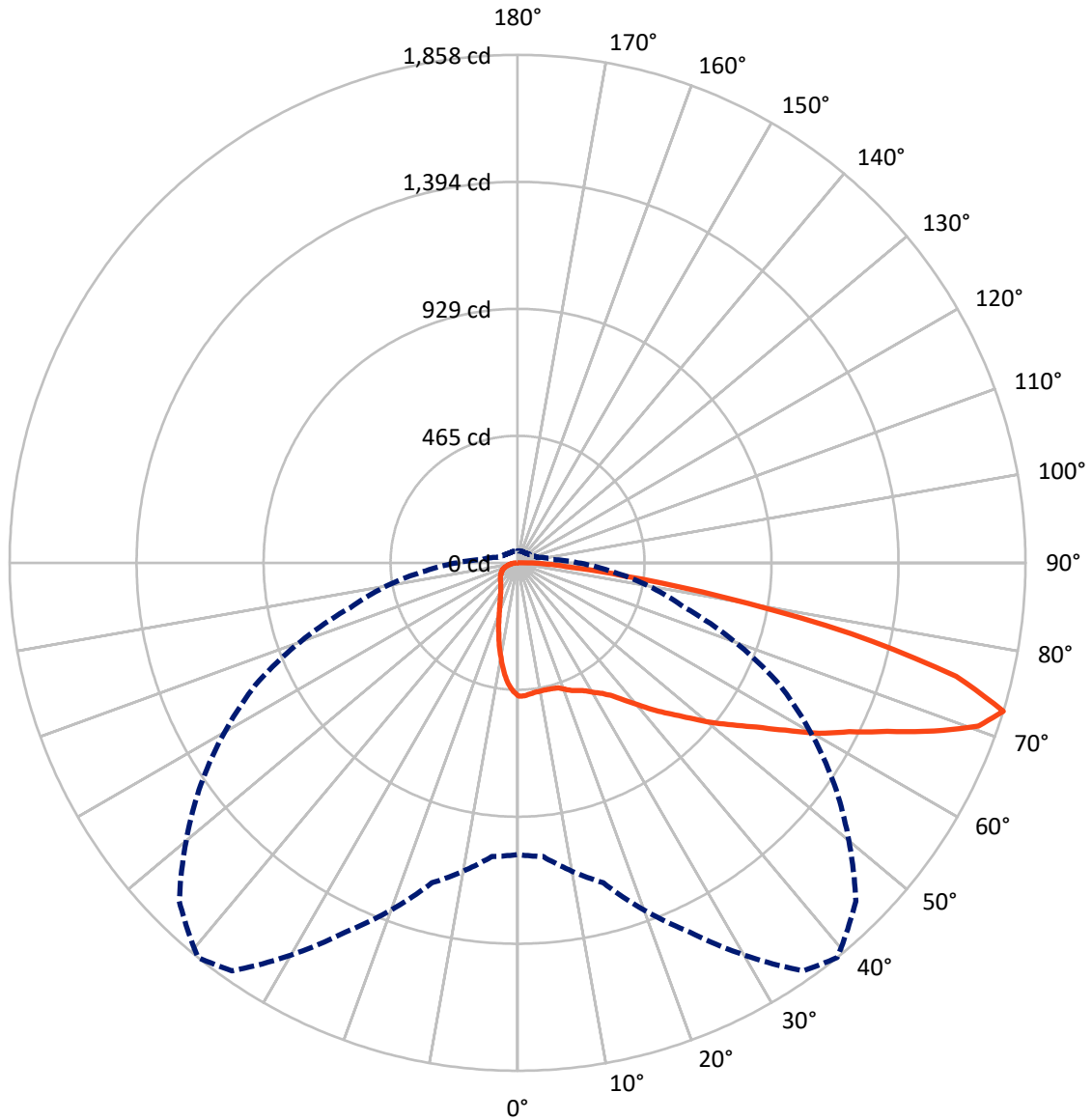
× Max cd
 - - - 1/2 Max cd



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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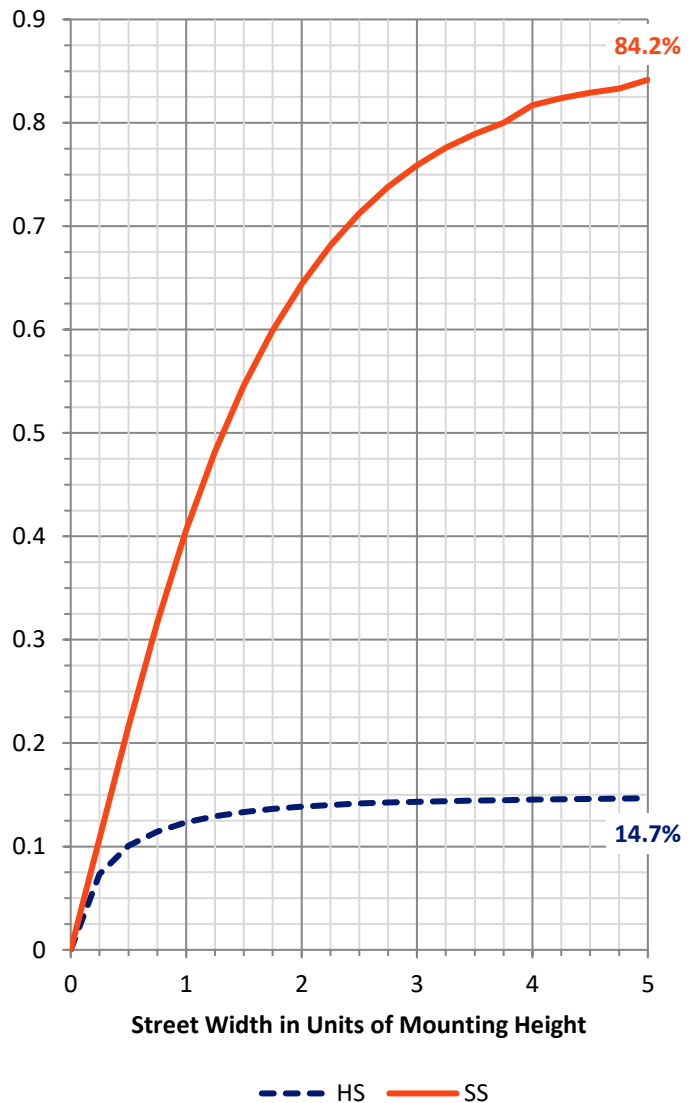
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.4	0.0	414.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2374.2	0.0	2374.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	2788.6	0.0	2788.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.5
10°-20°	110.1	3.9
20°-30°	167.7	6.0
30°-40°	245.3	8.8
40°-50°	375.6	13.5
50°-60°	550.9	19.8
60°-70°	702.6	25.2
70°-80°	507.6	18.2
80°-90°	85.6	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°	2788.6	100.0
0°-180°	2788.6	100.0

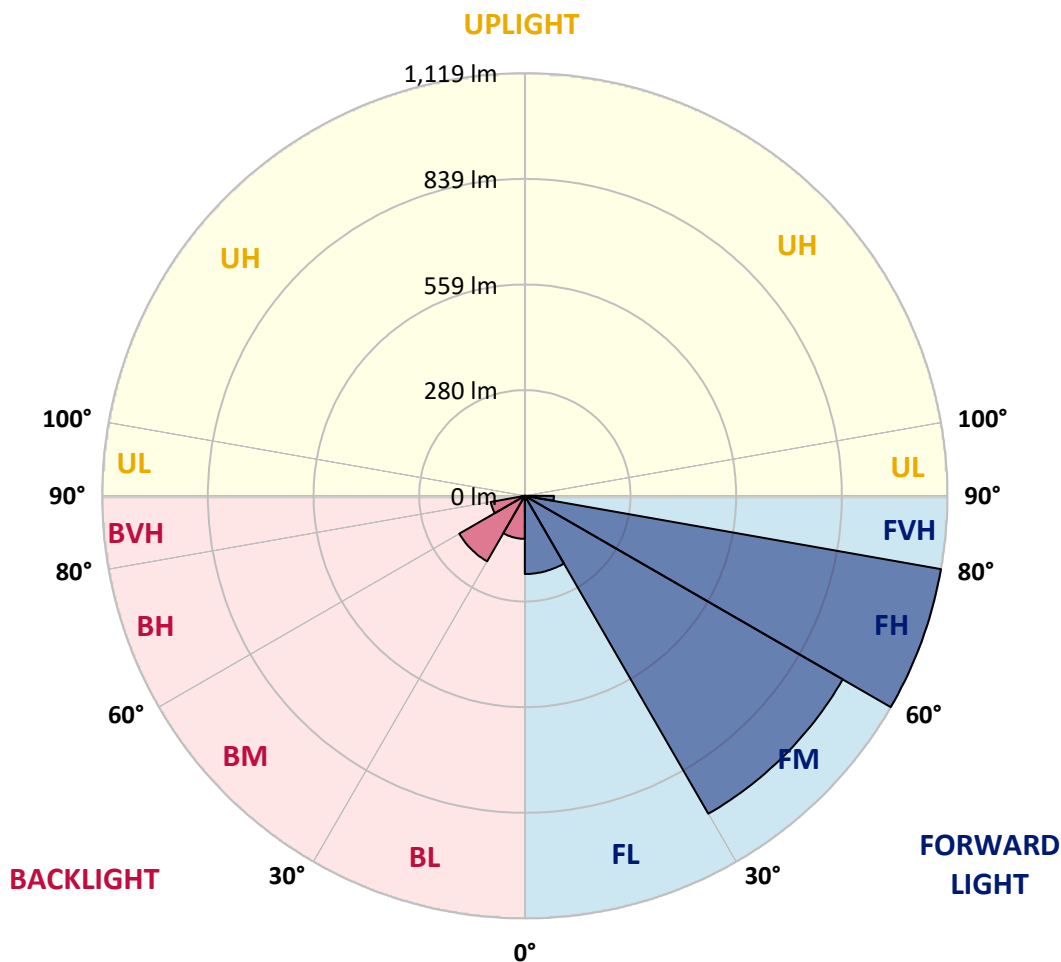


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.0	7.4			
FM (30°-60°)	971.6	34.8			
FH (60°-80°)	1118.6	40.1			G1/1800
FVH (80°-90°)	77.0	2.8			G1/100
BL (0°-30°)	114.0	4.1	B1/500		
BM (30°-60°)	200.2	7.2	B0/220		
BH (60°-80°)	91.6	3.3	B0/110		G0/110
BVH (80°-90°)	8.7	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°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	495.5	496.5	494.4	492.3	491.3	487.1	491.3	489.2	487.1	487.1	487.1
5°	489.2	490.2	490.2	488.1	489.2	481.8	480.8	481.8	478.7	476.6	475.6
7.5°	479.8	481.8	486.0	485.0	480.8	477.7	478.7	477.7	472.4	469.3	460.9
10°	472.4	474.5	476.6	478.7	477.7	476.6	475.6	471.4	470.3	463.0	454.6
12.5°	465.1	465.1	466.1	474.5	475.6	475.6	469.3	469.3	466.1	465.1	452.5
15°	457.8	460.9	469.3	471.4	475.6	477.7	474.5	474.5	469.3	461.9	452.5
17.5°	459.9	465.1	473.5	478.7	480.8	480.8	485.0	481.8	474.5	470.3	460.9
20°	470.3	471.4	481.8	491.3	493.4	493.4	489.2	486.0	480.8	473.5	460.9
22.5°	476.6	483.9	496.5	501.8	508.0	508.0	502.8	495.5	488.1	480.8	467.2
25°	503.8	504.9	510.1	518.5	521.7	517.5	512.2	503.8	494.4	487.1	474.5
27.5°	522.7	527.9	534.2	538.4	533.2	530.0	525.8	516.4	509.1	502.8	485.0
30°	557.3	551.0	555.2	557.3	547.8	549.9	538.4	530.0	521.7	521.7	501.8
32.5°	578.2	583.5	579.3	578.2	570.9	569.8	562.5	553.1	547.8	554.1	526.9
35°	614.9	611.7	611.7	610.7	602.3	597.1	597.1	580.3	585.6	599.2	565.6
37.5°	633.7	632.7	639.0	644.2	635.8	639.0	635.8	628.5	630.6	654.7	613.8
40°	652.6	659.9	672.5	674.6	679.8	684.0	681.9	680.9	689.3	728.0	678.8
42.5°	670.4	676.7	695.5	712.3	724.9	738.5	739.5	739.5	766.8	822.3	757.3
45°	693.4	698.7	724.9	758.4	779.3	788.8	797.1	806.6	843.2	909.2	841.1
47.5°	724.9	729.1	760.5	802.4	843.2	848.5	865.2	875.7	931.2	998.3	927.0
50°	769.9	766.8	791.9	852.7	892.5	917.6	941.7	960.6	1015.0	1088.3	994.1
52.5°	806.6	806.6	825.4	906.1	960.6	984.6	1009.8	1036.0	1098.8	1178.4	1048.5
55°	869.4	863.1	874.7	958.5	1037.0	1060.1	1108.3	1130.2	1191.0	1245.5	1094.6
57.5°	912.4	915.5	929.1	1027.6	1127.1	1155.4	1203.6	1219.3	1272.7	1315.7	1128.2
60°	968.9	958.5	987.8	1104.1	1226.6	1266.4	1306.2	1315.7	1355.5	1360.7	1143.9
62.5°	1023.4	1021.3	1046.4	1180.5	1333.5	1361.7	1402.6	1413.1	1429.8	1396.3	1121.9
65°	1056.9	1070.5	1117.7	1264.3	1455.0	1486.4	1527.2	1506.3	1487.4	1364.9	1014.0
67.5°	1103.0	1109.3	1181.6	1355.5	1595.3	1642.5	1678.1	1595.3	1455.0	1236.0	853.7
70°	1113.5	1130.2	1224.5	1450.8	1739.9	1788.1	1790.2	1565.0	1336.6	1005.6	619.1
72.5°	1067.4	1078.9	1212.0	1490.6	1822.6	1858.3	1750.4	1415.2	1059.0	633.7	337.3
75°	897.7	930.2	1054.8	1368.0	1670.8	1657.1	1483.3	1080.0	635.8	280.7	142.5
77.5°	625.4	626.4	756.3	995.1	1250.7	1247.6	1058.0	626.4	272.3	113.1	83.8
80°	277.6	297.5	376.1	536.3	759.4	759.4	617.0	311.1	136.2	73.3	57.6
82.5°	163.4	169.7	201.1	250.4	369.8	389.7	295.4	207.4	93.2	46.1	35.6
85°	120.5	130.9	149.8	150.8	174.9	178.1	163.4	180.2	63.9	25.1	29.3
87.5°	90.1	96.4	119.4	99.5	93.2	88.0	100.6	184.4	24.1	12.6	9.4
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°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	482.9	482.9	480.8	476.6	476.6	468.2	470.3	472.4	467.2	467.2	468.2
5°	475.6	471.4	466.1	459.9	455.7	444.1	442.0	434.7	433.7	431.6	428.4
7.5°	460.9	454.6	445.2	435.8	422.1	411.7	399.1	388.6	384.4	381.3	380.2
10°	447.3	446.2	430.5	411.7	390.7	370.8	352.0	338.3	330.0	324.7	323.7
12.5°	447.3	438.9	416.9	390.7	360.3	331.0	306.9	288.1	276.5	268.2	265.0
15°	445.2	436.8	407.5	367.7	333.1	293.3	259.8	239.9	223.1	214.7	215.8
17.5°	447.3	434.7	393.9	350.9	302.7	259.8	220.0	195.9	179.1	172.8	171.8
20°	448.3	432.6	383.4	327.9	271.3	223.1	185.4	162.4	149.8	145.6	145.6
22.5°	446.2	426.3	367.7	300.6	244.1	192.7	161.3	141.4	133.0	127.8	129.9
25°	455.7	425.3	353.0	277.6	212.6	167.6	143.5	128.8	123.6	120.5	121.5
27.5°	457.8	425.3	341.5	251.4	185.4	148.7	129.9	120.5	116.3	114.2	113.1
30°	466.1	427.4	327.9	225.2	163.4	134.1	119.4	114.2	111.0	110.0	110.0
32.5°	489.2	433.7	313.2	203.2	144.6	121.5	112.1	107.9	105.8	104.7	105.8
35°	516.4	450.4	297.5	180.2	130.9	113.1	105.8	102.7	101.6	101.6	101.6
37.5°	558.3	475.6	283.9	161.3	119.4	104.7	99.5	98.5	97.4	98.5	98.5
40°	606.5	502.8	271.3	146.6	111.0	99.5	94.3	94.3	93.2	94.3	95.3
42.5°	662.0	536.3	258.7	132.0	103.7	95.3	91.1	90.1	89.0	91.1	92.2
45°	738.5	582.4	250.4	123.6	98.5	91.1	86.9	86.9	85.9	85.9	88.0
47.5°	802.4	626.4	250.4	115.2	95.3	88.0	83.8	83.8	81.7	82.8	82.8
50°	855.8	664.1	255.6	113.1	91.1	84.8	81.7	79.6	78.6	78.6	78.6
52.5°	891.4	687.2	259.8	111.0	89.0	80.7	78.6	77.5	75.4	74.4	75.4
55°	927.0	702.9	260.8	111.0	85.9	76.5	74.4	74.4	72.3	71.2	71.2
57.5°	940.7	696.6	246.2	108.9	83.8	73.3	71.2	70.2	69.1	68.1	68.1
60°	934.4	673.5	213.7	103.7	81.7	71.2	67.0	67.0	67.0	64.9	66.0
62.5°	891.4	595.0	171.8	95.3	78.6	67.0	62.8	64.9	64.9	63.9	63.9
65°	778.3	491.3	139.3	88.0	74.4	63.9	59.7	62.8	63.9	62.8	61.8
67.5°	622.2	378.1	115.2	79.6	69.1	58.7	55.5	58.7	59.7	58.7	58.7
70°	427.4	244.1	93.2	71.2	61.8	53.4	50.3	52.4	52.4	53.4	53.4
72.5°	221.0	132.0	76.5	60.8	53.4	48.2	45.0	45.0	44.0	44.0	44.0
75°	110.0	90.1	63.9	51.3	45.0	40.9	38.8	36.7	36.7	36.7	36.7
77.5°	76.5	69.1	52.4	40.9	36.7	33.5	33.5	30.4	30.4	30.4	30.4
80°	57.6	54.5	39.8	31.4	28.3	26.2	26.2	25.1	25.1	24.1	24.1
82.5°	40.9	44.0	30.4	23.0	20.9	19.9	19.9	18.9	18.9	16.8	16.8
85°	32.5	36.7	23.0	16.8	15.7	13.6	13.6	12.6	12.6	11.5	10.5
87.5°	9.4	19.9	9.4	6.3	6.3	6.3	6.3	5.2	5.2	4.2	4.2
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)