

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: P677105

Luminaire Tested: **CCW-SA-1A-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677105
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

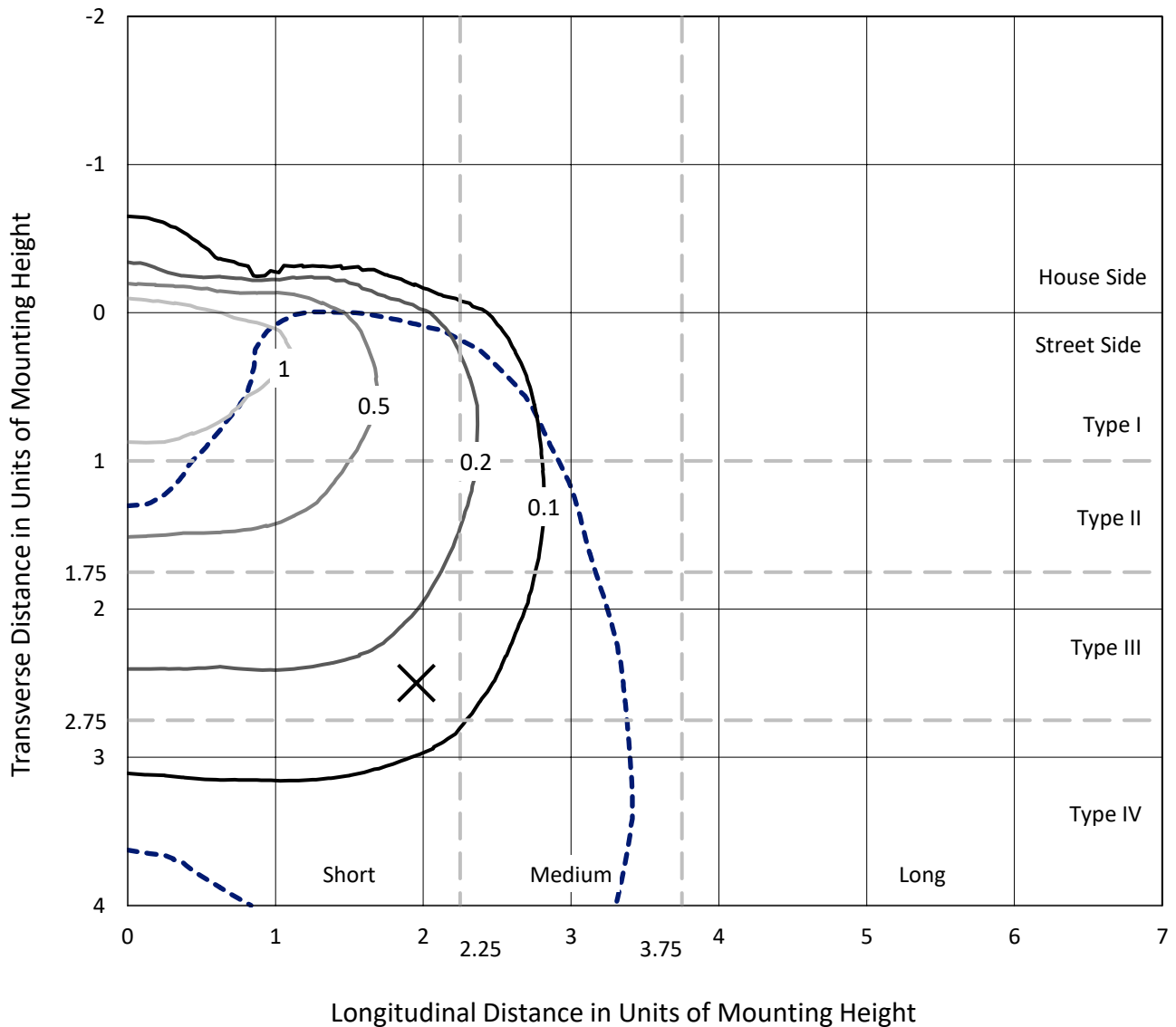
Lumens per Lamp: N/A
Luminaire Lumens: 1889.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (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

REPORT NUMBER: P677105
 CATALOG NUMBER: CCW-SA-1A-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

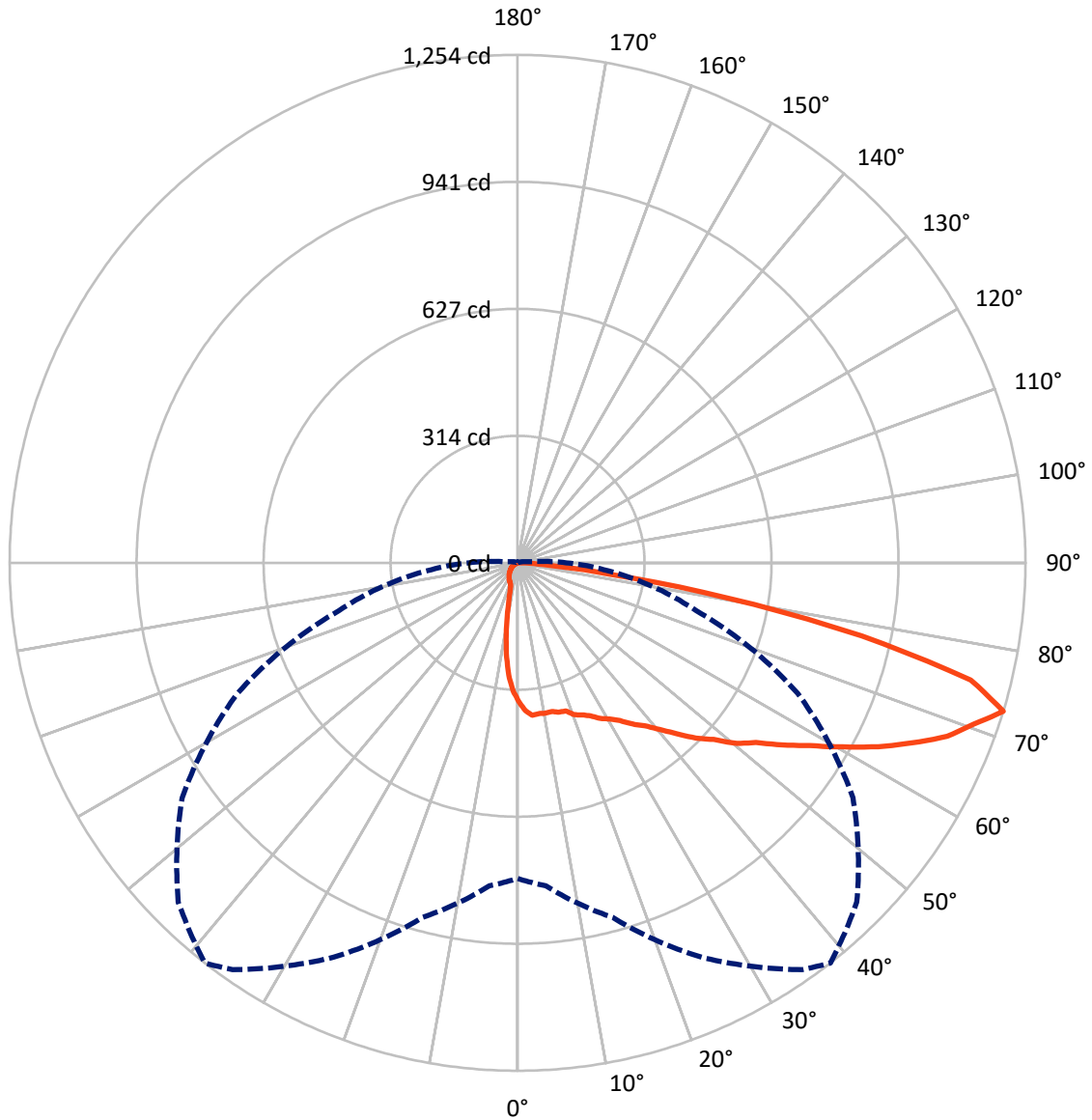
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P677105
CATALOG NUMBER: CCW-SA-1A-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677105
 CATALOG NUMBER: CCW-SA-1A-727-U-SL4-HSS

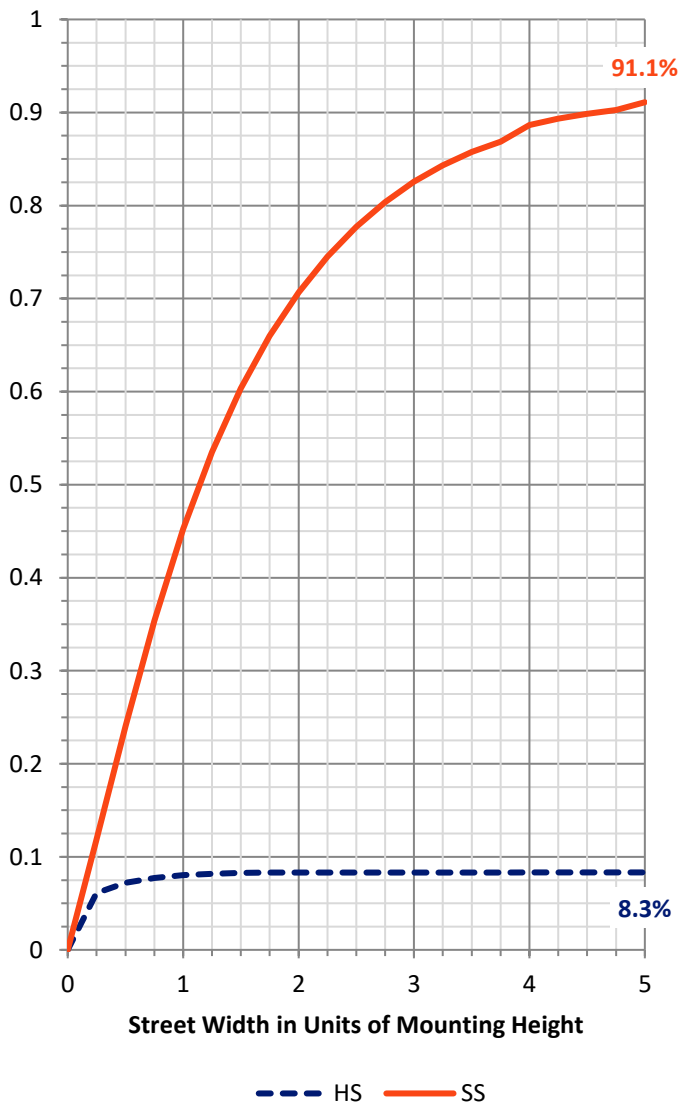
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	158.3	0.0	158.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	1731.6	0.0	1731.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	1889.9	0.0	1889.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	1.6
10°-20°	73.2	3.9
20°-30°	117.4	6.2
30°-40°	177.3	9.4
40°-50°	269.8	14.3
50°-60°	379.8	20.1
60°-70°	464.0	24.6
70°-80°	336.9	17.8
80°-90°	41.5	2.2
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°	1889.9	100.0
0°-180°	1889.9	100.0

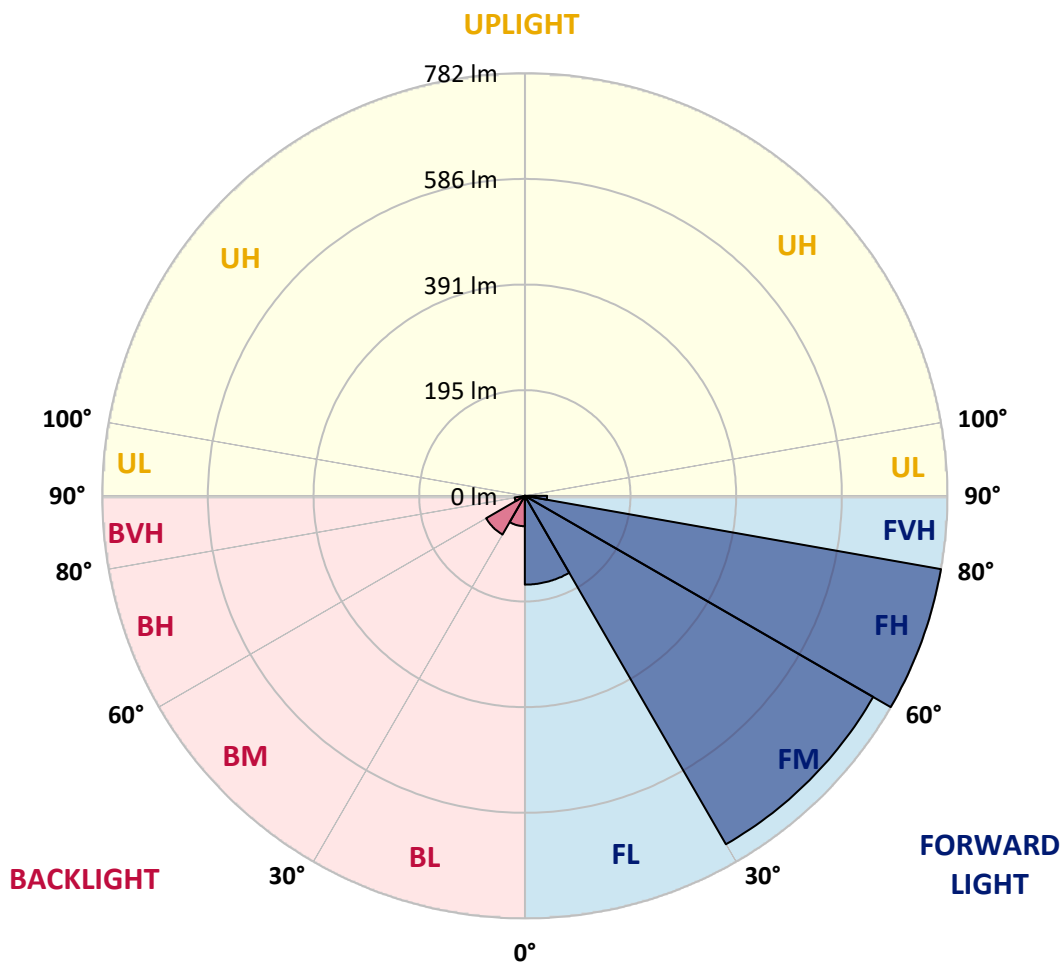


REPORT NUMBER: P677105
 CATALOG NUMBER: CCW-SA-1A-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	164.4	8.7			
FM (30°-60°)	744.2	39.4			
FH (60°-80°)	781.7	41.4			G1/1800
FVH (80°-90°)	41.3	2.2			G1/100
BL (0°-30°)	56.2	3.0	B0/110		
BM (30°-60°)	82.7	4.4	B0/220		
BH (60°-80°)	19.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			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





REPORT NUMBER: P677105

CATALOG NUMBER: CCW-SA-1A-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8
2.5°	375.5	375.5	379.0	375.5	374.1	365.7	366.2	361.7	357.3	351.1	345.3
5°	379.9	383.0	385.2	382.1	377.2	378.1	381.2	372.8	360.8	353.3	340.4
7.5°	378.1	384.8	383.0	381.2	378.1	375.9	371.5	367.9	362.2	355.1	340.0
10°	376.8	379.0	379.4	378.1	371.5	377.7	372.8	367.0	359.9	351.5	332.9
12.5°	371.9	371.9	375.9	372.8	373.7	376.8	374.6	373.2	365.7	358.6	342.2
15°	366.6	368.4	374.6	379.4	383.9	382.6	381.2	377.2	370.6	362.6	345.3
17.5°	367.9	368.8	378.6	387.4	385.2	384.3	391.4	383.0	376.3	367.5	348.0
20°	372.8	375.5	386.5	398.1	400.3	400.3	397.6	392.7	383.4	371.5	352.9
22.5°	377.7	378.6	396.7	411.4	413.6	407.8	410.0	395.9	387.0	380.3	357.7
25°	396.3	394.5	414.0	425.6	424.2	418.5	416.2	403.8	400.3	388.3	368.4
27.5°	421.6	414.0	433.1	440.2	433.1	434.9	428.7	415.4	407.8	400.7	373.2
30°	437.1	441.5	451.7	458.8	446.8	447.3	444.2	429.5	418.0	419.8	389.6
32.5°	461.0	464.1	471.7	474.8	465.4	464.6	461.5	449.9	441.5	439.7	411.8
35°	486.7	492.5	492.9	493.8	485.4	488.9	484.5	468.1	472.5	475.6	438.4
37.5°	512.0	506.7	515.5	519.5	510.2	510.2	511.5	500.5	508.4	517.8	476.1
40°	521.7	524.0	539.5	536.4	547.5	540.8	545.7	543.0	549.7	570.9	529.3
42.5°	531.9	534.6	555.4	561.2	574.5	576.7	583.8	584.2	603.8	638.8	580.3
45°	551.4	547.0	575.4	589.6	611.3	617.5	625.9	633.0	663.6	704.8	638.3
47.5°	569.2	563.0	595.3	623.7	650.3	651.6	674.7	682.2	718.6	765.5	696.0
50°	594.0	596.2	610.0	658.7	685.8	701.3	717.2	742.1	782.4	832.5	737.6
52.5°	619.7	617.5	640.5	688.4	731.0	736.7	772.6	800.6	844.5	882.1	756.2
55°	651.2	653.8	662.7	725.7	779.7	793.5	833.8	863.1	910.9	903.4	762.4
57.5°	682.7	680.0	699.9	767.3	840.9	851.1	904.7	922.0	954.4	917.6	746.9
60°	713.7	718.6	727.0	814.3	907.8	922.9	965.5	974.3	981.4	924.2	735.0
62.5°	749.1	737.6	763.8	864.0	968.1	999.6	1033.3	998.3	992.1	912.3	707.5
65°	766.9	770.4	804.6	920.7	1048.4	1071.4	1075.8	1030.6	998.7	885.7	681.8
67.5°	794.4	799.2	842.7	978.8	1130.8	1143.7	1127.7	1059.9	993.0	851.1	589.1
70°	797.9	809.9	893.7	1039.5	1182.7	1193.8	1181.3	1079.4	946.4	715.0	436.2
72.5°	779.3	800.6	906.1	1074.1	1226.1	1254.0	1184.5	1010.7	762.9	456.1	223.4
75°	588.7	606.4	829.4	1022.7	1149.0	1155.6	1039.9	771.3	434.4	155.6	57.2
77.5°	305.0	335.6	553.7	781.5	875.5	868.4	723.9	454.4	149.4	40.8	23.1
80°	175.1	182.6	242.0	438.8	550.6	523.5	400.3	195.9	65.6	20.4	15.1
82.5°	86.4	97.1	130.3	196.4	275.3	226.5	150.3	117.5	36.8	11.1	13.3
85°	18.6	19.5	66.5	94.0	111.7	73.6	51.4	98.9	13.3	6.6	12.9
87.5°	13.3	12.9	18.6	42.1	31.0	19.1	30.6	51.9	3.1	3.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677105
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8	341.8
2.5°	341.8	337.8	333.3	324.9	322.7	321.4	313.8	313.4	312.1	309.0	307.6
5°	332.5	325.8	317.4	308.5	301.4	288.6	273.1	265.1	255.3	255.8	252.7
7.5°	331.1	318.7	306.8	288.1	265.5	241.6	217.7	202.1	191.1	184.4	185.7
10°	324.9	315.6	296.1	261.5	225.2	188.8	158.3	135.2	121.9	111.7	114.8
12.5°	327.6	309.4	281.9	235.8	184.0	139.2	101.1	78.9	69.2	65.6	66.5
15°	325.8	309.4	273.5	207.9	144.5	94.4	65.6	58.5	56.7	56.7	55.9
17.5°	331.1	313.0	259.3	180.4	103.7	62.9	56.3	55.0	53.6	53.6	53.6
20°	338.7	314.7	249.6	149.8	73.1	55.4	52.8	51.9	51.4	51.4	51.0
22.5°	339.1	313.0	231.4	116.1	56.3	52.3	50.1	49.6	49.6	48.8	48.8
25°	341.8	314.7	211.9	87.3	52.3	49.2	47.4	47.0	47.4	47.0	46.5
27.5°	348.4	317.8	192.4	63.8	49.2	46.5	45.2	44.8	44.8	44.8	43.9
30°	356.8	317.8	170.7	52.8	46.5	43.9	42.6	42.1	41.7	41.7	41.7
32.5°	374.6	328.0	144.1	47.0	43.0	40.8	39.5	39.5	39.0	39.0	38.6
35°	396.7	335.1	117.0	43.4	39.9	37.7	36.3	36.3	35.9	35.9	35.5
37.5°	424.2	352.9	89.5	40.8	36.8	34.6	33.2	33.2	33.2	32.8	32.8
40°	463.2	371.0	66.5	37.2	33.7	31.5	30.6	30.1	29.7	29.7	28.8
42.5°	504.9	399.0	49.6	34.6	31.0	29.3	27.9	26.6	26.6	25.3	25.3
45°	550.1	423.3	40.3	31.5	28.4	26.2	24.8	23.9	22.6	21.7	21.7
47.5°	594.4	438.4	35.5	27.9	25.7	23.9	22.6	20.8	19.1	18.6	18.2
50°	630.3	442.8	31.5	25.3	23.5	21.7	19.9	17.7	16.0	15.1	14.6
52.5°	630.3	418.5	28.4	22.6	21.3	19.5	17.3	14.6	12.4	11.5	11.1
55°	630.3	379.9	25.3	20.8	19.1	17.7	14.6	12.0	9.8	8.4	8.0
57.5°	621.0	333.3	22.6	18.6	16.8	15.1	12.4	9.3	7.1	5.8	5.8
60°	595.3	284.6	19.5	16.4	14.6	12.4	9.8	6.6	4.4	3.1	3.1
62.5°	562.5	226.5	16.8	13.7	12.0	10.2	7.5	4.4	1.8	0.9	0.9
65°	505.3	167.1	14.6	11.5	9.3	7.5	4.9	1.8	0.0	0.0	0.0
67.5°	417.1	111.7	11.5	9.3	8.0	5.3	3.1	0.4	0.0	0.0	0.0
70°	293.5	63.4	8.9	6.6	5.8	3.5	0.9	0.0	0.0	0.0	0.0
72.5°	120.6	27.9	6.2	4.9	4.0	1.8	0.0	0.0	0.0	0.0	0.0
75°	32.8	12.4	4.0	2.7	2.2	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	19.1	8.4	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.1	4.0	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)