

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: P673939

Luminaire Tested: **CCP-SA-1B-722-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673939
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-722-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL4 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

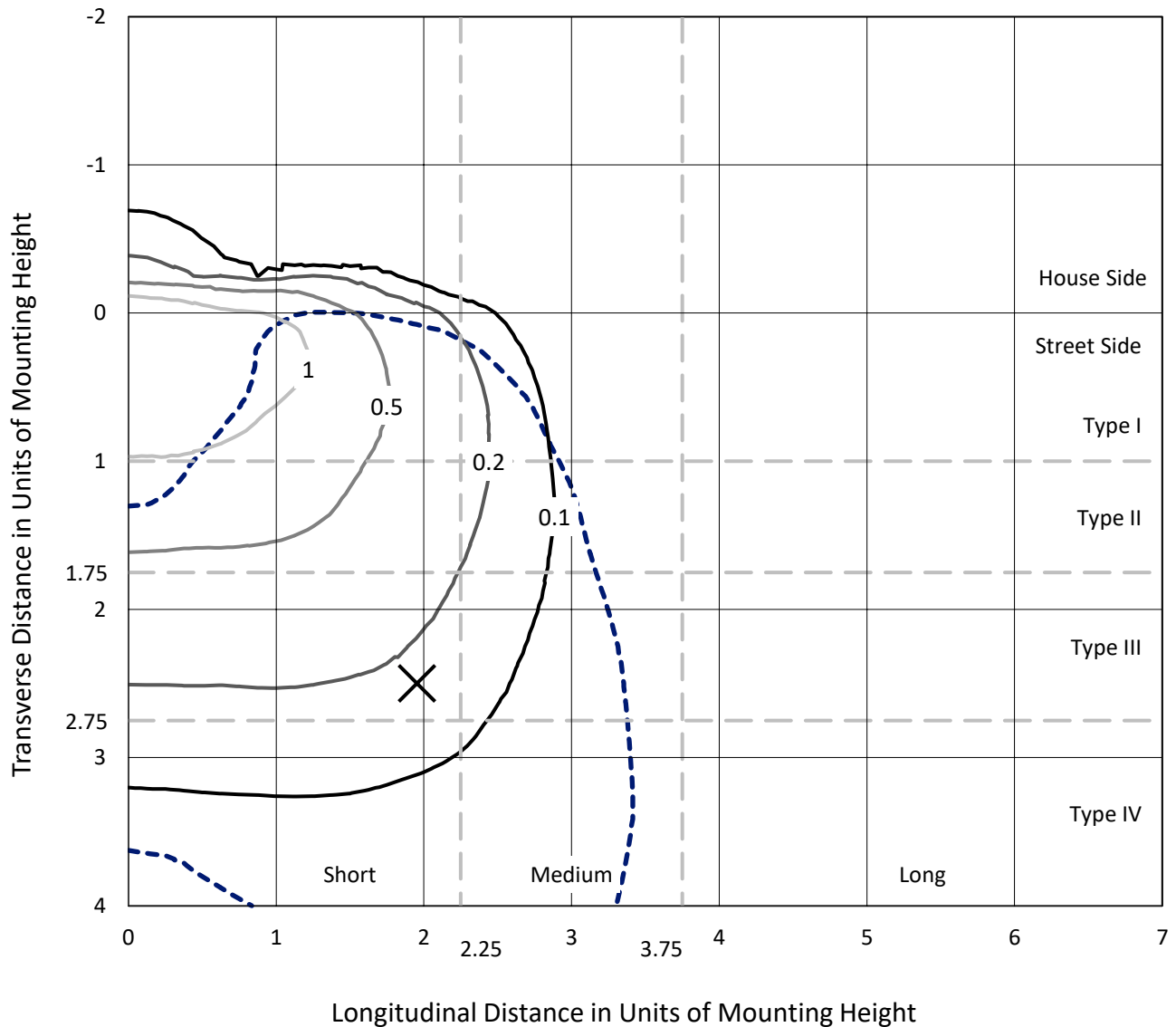
Lumens per Lamp: N/A
Luminaire Lumens: 2101.4 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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

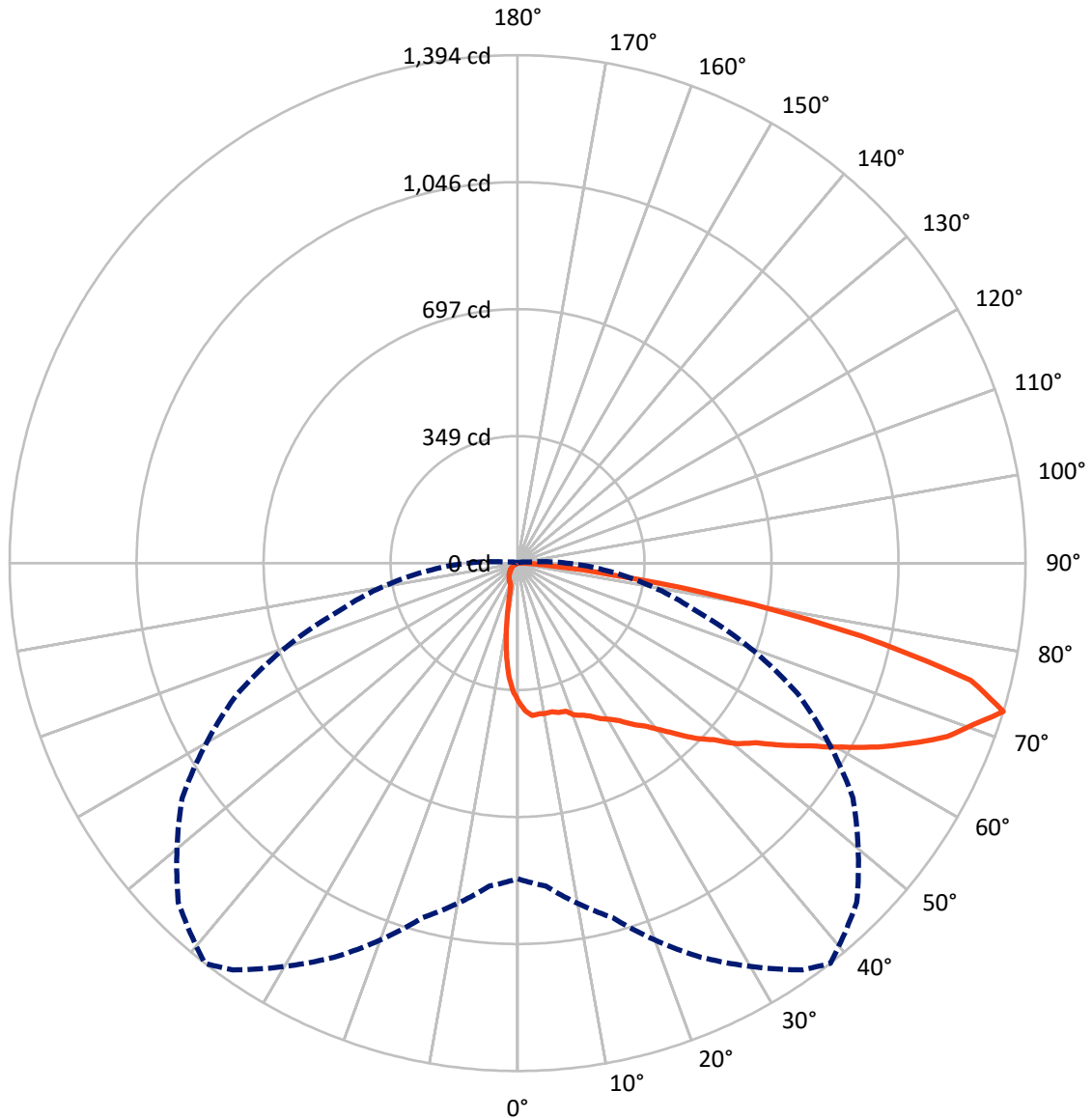
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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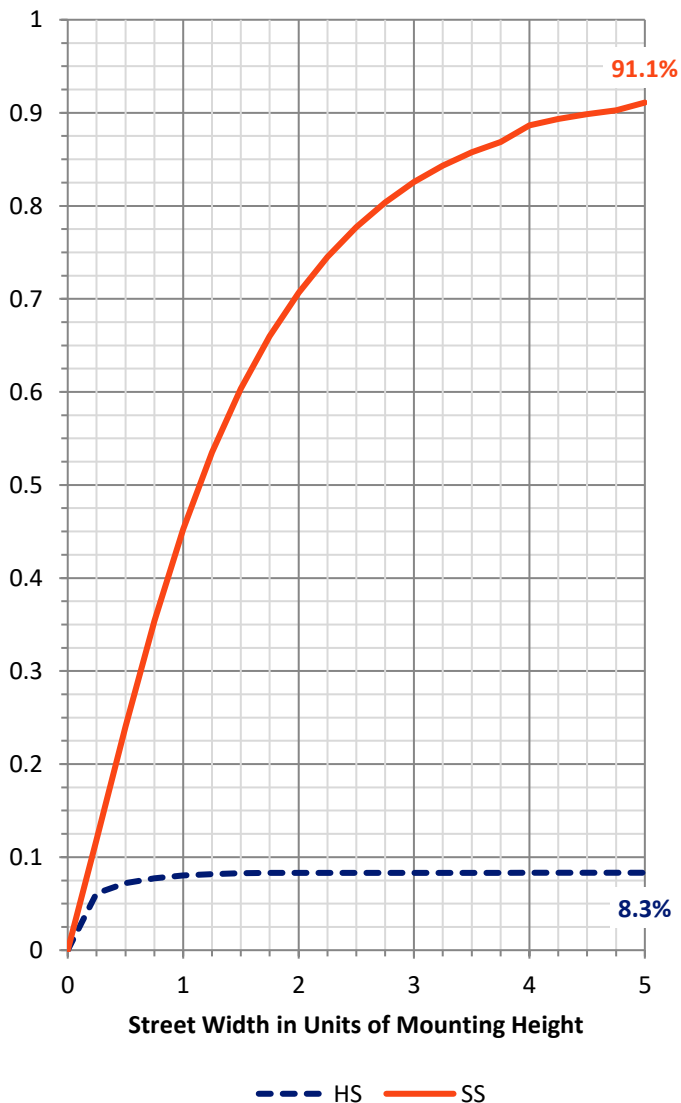
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	176.0	0.0	176.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	1925.4	0.0	1925.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	2101.4	0.0	2101.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	1.6
10°-20°	81.4	3.9
20°-30°	130.6	6.2
30°-40°	197.1	9.4
40°-50°	300.0	14.3
50°-60°	422.3	20.1
60°-70°	515.9	24.6
70°-80°	374.6	17.8
80°-90°	46.1	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°	2101.4	100.0
0°-180°	2101.4	100.0



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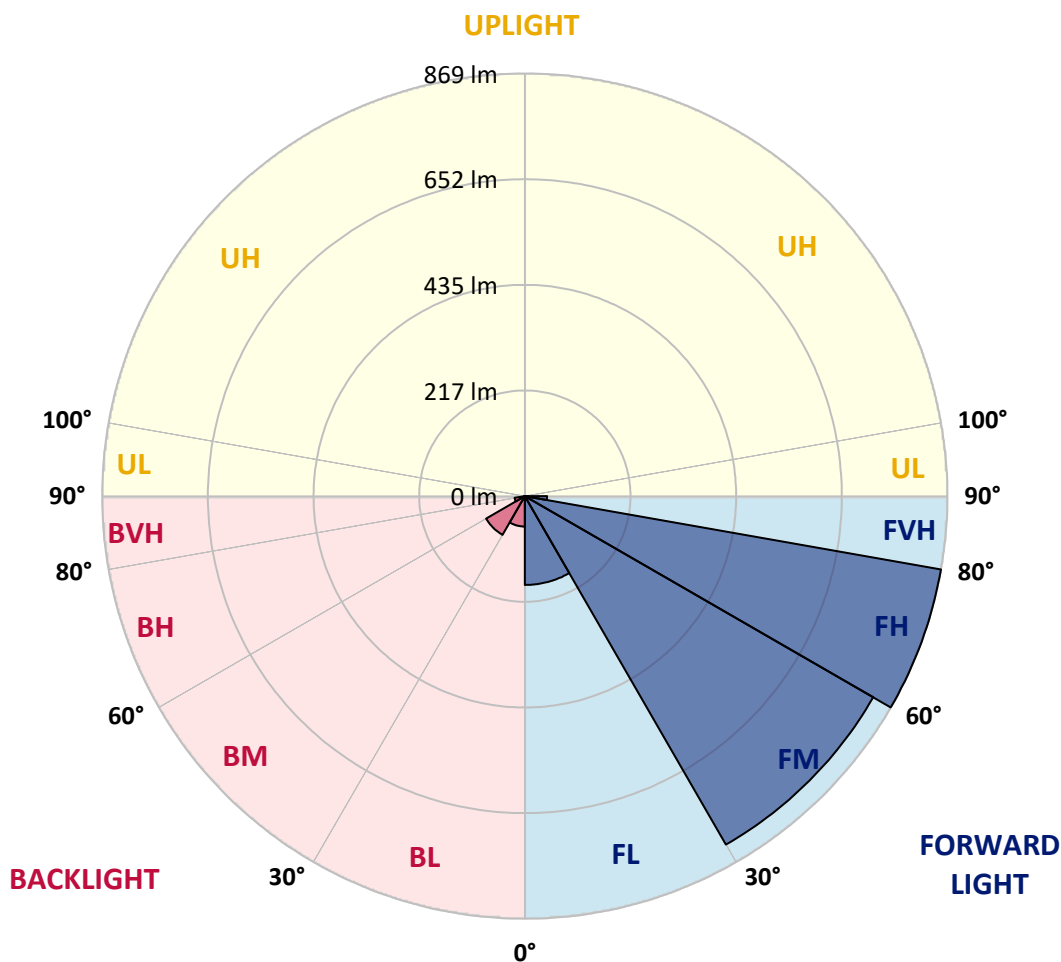
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.8	8.7			
FM (30°-60°)	827.5	39.4			
FH (60°-80°)	869.2	41.4			G1/1800
FVH (80°-90°)	45.9	2.2			G1/100
BL (0°-30°)	62.5	3.0	B0/110		
BM (30°-60°)	91.9	4.4	B0/220		
BH (60°-80°)	21.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0
2.5°	417.5	417.5	421.4	417.5	416.0	406.6	407.1	402.2	397.3	390.4	383.9
5°	422.4	425.8	428.3	424.9	419.4	420.4	423.9	414.5	401.2	392.8	378.5
7.5°	420.4	427.8	425.8	423.9	420.4	418.0	413.0	409.1	402.7	394.8	378.0
10°	418.9	421.4	421.9	420.4	413.0	419.9	414.5	408.1	400.2	390.8	370.1
12.5°	413.5	413.5	418.0	414.5	415.5	418.9	416.5	415.0	406.6	398.7	380.5
15°	407.6	409.6	416.5	421.9	426.8	425.4	423.9	419.4	412.0	403.2	383.9
17.5°	409.1	410.1	420.9	430.8	428.3	427.3	435.2	425.8	418.5	408.6	386.9
20°	414.5	417.5	429.8	442.6	445.1	445.1	442.1	436.7	426.3	413.0	392.3
22.5°	419.9	420.9	441.1	457.4	459.9	453.4	455.9	440.1	430.3	422.9	397.7
25°	440.6	438.7	460.3	473.2	471.7	465.3	462.8	449.0	445.1	431.8	409.6
27.5°	468.7	460.3	481.5	489.4	481.5	483.5	476.6	461.8	453.4	445.6	415.0
30°	486.0	490.9	502.2	510.1	496.8	497.3	493.9	477.6	464.8	466.8	433.2
32.5°	512.6	516.0	524.4	527.9	517.5	516.5	513.1	500.3	490.9	488.9	457.9
35°	541.2	547.6	548.1	549.1	539.7	543.6	538.7	520.5	525.4	528.9	487.5
37.5°	569.3	563.4	573.2	577.6	567.3	567.3	568.8	556.5	565.3	575.7	529.3
40°	580.1	582.6	599.8	596.4	608.7	601.3	606.7	603.8	611.2	634.8	588.5
42.5°	591.4	594.4	617.6	624.0	638.8	641.2	649.1	649.6	671.3	710.2	645.2
45°	613.1	608.2	639.8	655.5	679.7	686.6	695.9	703.8	737.8	783.7	709.7
47.5°	632.9	626.0	661.9	693.5	723.0	724.5	750.2	758.5	798.9	851.2	773.8
50°	660.5	662.9	678.2	732.4	762.5	779.7	797.5	825.1	869.9	925.6	820.1
52.5°	689.0	686.6	712.2	765.4	812.7	819.2	859.1	890.1	938.9	980.8	840.8
55°	724.0	727.0	736.8	806.8	867.0	882.2	927.1	959.6	1012.9	1004.5	847.7
57.5°	759.0	756.1	778.2	853.2	935.0	946.3	1006.0	1025.2	1061.2	1020.2	830.5
60°	793.5	798.9	808.3	905.4	1009.4	1026.2	1073.5	1083.3	1091.2	1027.6	817.2
62.5°	833.0	820.1	849.2	960.6	1076.4	1111.4	1148.9	1110.0	1103.1	1014.3	786.6
65°	852.7	856.6	894.6	1023.7	1165.6	1191.3	1196.2	1145.9	1110.4	984.8	758.0
67.5°	883.2	888.7	937.0	1088.3	1257.3	1271.6	1253.9	1178.5	1104.0	946.3	655.0
70°	887.2	900.5	993.6	1155.8	1315.0	1327.3	1313.5	1200.1	1052.3	795.0	485.0
72.5°	866.5	890.1	1007.4	1194.2	1363.3	1394.3	1317.0	1123.8	848.2	507.2	248.4
75°	654.5	674.3	922.2	1137.1	1277.5	1284.9	1156.3	857.6	483.0	173.0	63.6
77.5°	339.1	373.1	615.6	868.9	973.4	965.5	804.9	505.2	166.1	45.3	25.6
80°	194.7	203.1	269.1	487.9	612.1	582.1	445.1	217.9	72.9	22.7	16.8
82.5°	96.1	107.9	144.9	218.3	306.1	251.9	167.1	130.6	40.9	12.3	14.8
85°	20.7	21.7	73.9	104.5	124.2	81.8	57.2	109.9	14.8	7.4	14.3
87.5°	14.8	14.3	20.7	46.8	34.5	21.2	34.0	57.7	3.5	3.5	3.0
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°	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0	380.0
2.5°	380.0	375.6	370.6	361.3	358.8	357.3	349.0	348.5	347.0	343.5	342.1
5°	369.7	362.3	352.9	343.0	335.2	320.9	303.6	294.7	283.9	284.4	280.9
7.5°	368.2	354.4	341.1	320.4	295.2	268.6	242.0	224.8	212.4	205.0	206.5
10°	361.3	350.9	329.2	290.8	250.4	210.0	176.0	150.3	135.5	124.2	127.7
12.5°	364.2	344.0	313.5	262.2	204.5	154.8	112.4	87.7	76.9	72.9	73.9
15°	362.3	344.0	304.1	231.2	160.7	105.0	72.9	65.1	63.1	63.1	62.1
17.5°	368.2	348.0	288.3	200.6	115.3	70.0	62.6	61.1	59.6	59.6	59.6
20°	376.6	349.9	277.5	166.6	81.3	61.6	58.7	57.7	57.2	57.2	56.7
22.5°	377.0	348.0	257.3	129.1	62.6	58.2	55.7	55.2	55.2	54.2	54.2
25°	380.0	349.9	235.6	97.1	58.2	54.7	52.7	52.2	52.7	52.2	51.8
27.5°	387.4	353.4	213.9	71.0	54.7	51.8	50.3	49.8	49.8	49.8	48.8
30°	396.8	353.4	189.8	58.7	51.8	48.8	47.3	46.8	46.3	46.3	46.3
32.5°	416.5	364.7	160.2	52.2	47.8	45.3	43.9	43.9	43.4	43.4	42.9
35°	441.1	372.6	130.1	48.3	44.4	41.9	40.4	40.4	39.9	39.9	39.4
37.5°	471.7	392.3	99.6	45.3	40.9	38.4	37.0	37.0	37.0	36.5	36.5
40°	515.1	412.5	73.9	41.4	37.5	35.0	34.0	33.5	33.0	33.0	32.0
42.5°	561.4	443.6	55.2	38.4	34.5	32.5	31.1	29.6	29.6	28.1	28.1
45°	611.7	470.7	44.9	35.0	31.5	29.1	27.6	26.6	25.1	24.2	24.2
47.5°	660.9	487.5	39.4	31.1	28.6	26.6	25.1	23.2	21.2	20.7	20.2
50°	700.9	492.4	35.0	28.1	26.1	24.2	22.2	19.7	17.7	16.8	16.3
52.5°	700.9	465.3	31.5	25.1	23.7	21.7	19.2	16.3	13.8	12.8	12.3
55°	700.9	422.4	28.1	23.2	21.2	19.7	16.3	13.3	10.8	9.4	8.9
57.5°	690.5	370.6	25.1	20.7	18.7	16.8	13.8	10.4	7.9	6.4	6.4
60°	661.9	316.4	21.7	18.2	16.3	13.8	10.8	7.4	4.9	3.5	3.5
62.5°	625.5	251.9	18.7	15.3	13.3	11.3	8.4	4.9	2.0	1.0	1.0
65°	561.9	185.8	16.3	12.8	10.4	8.4	5.4	2.0	0.0	0.0	0.0
67.5°	463.8	124.2	12.8	10.4	8.9	5.9	3.5	0.5	0.0	0.0	0.0
70°	326.3	70.5	9.9	7.4	6.4	3.9	1.0	0.0	0.0	0.0	0.0
72.5°	134.1	31.1	6.9	5.4	4.4	2.0	0.0	0.0	0.0	0.0	0.0
75°	36.5	13.8	4.4	3.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	21.2	9.4	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.8	4.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)