

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: P673584

Luminaire Tested: **CCP-SA-1B-827-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673584
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-827-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4W distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

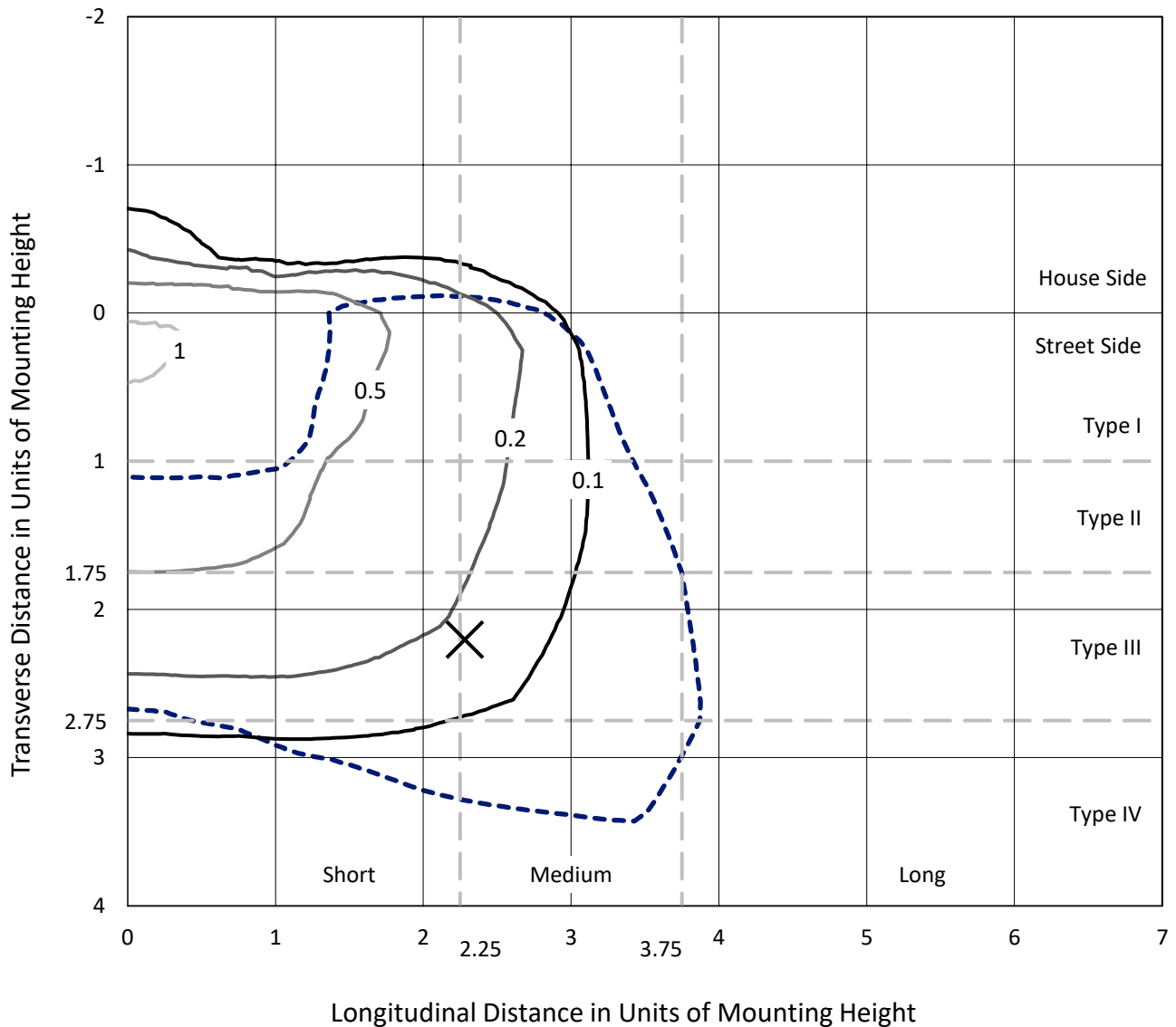
Lumens per Lamp: N/A
Luminaire Lumens: 1831.7 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

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

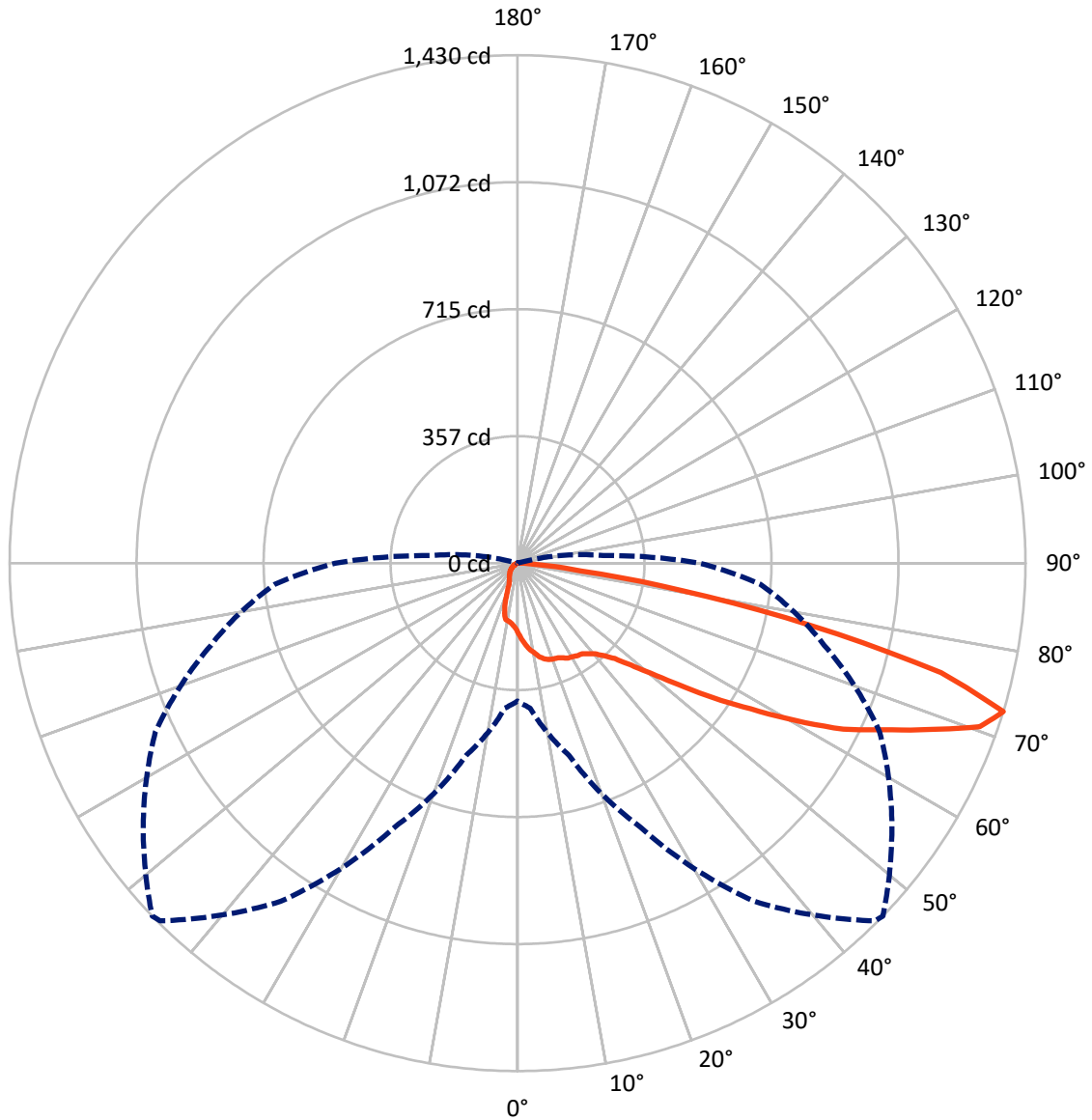
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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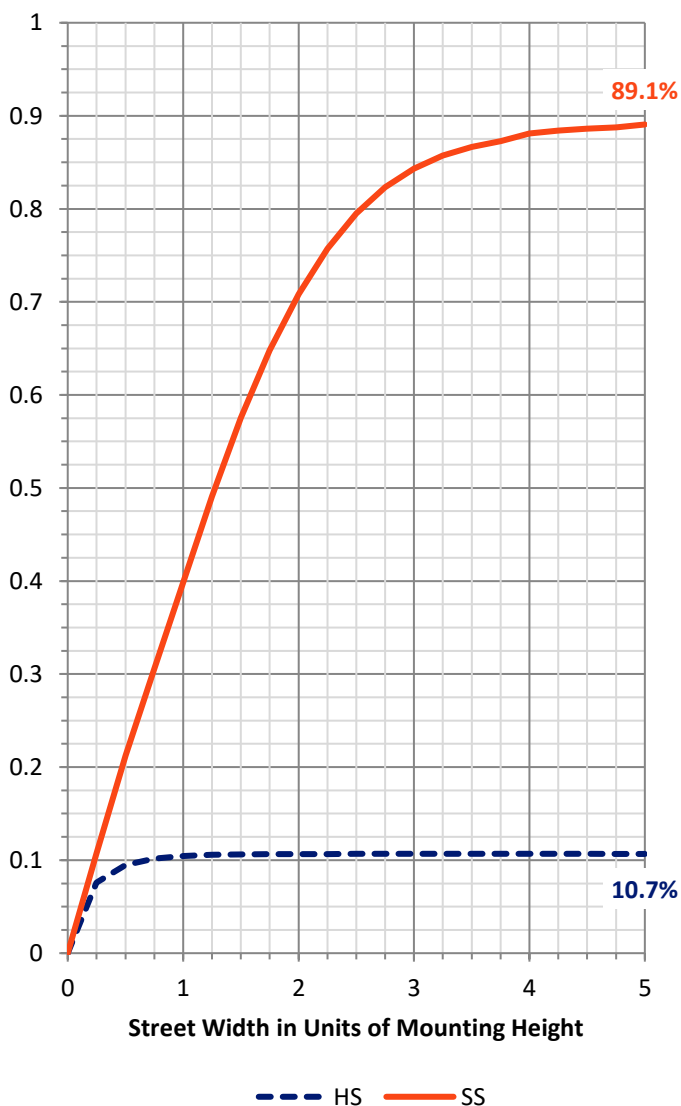
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.2	0.0	197.2
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	1634.5	0.0	1634.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	1831.7	0.0	1831.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	1.1
10°-20°	59.2	3.2
20°-30°	92.6	5.1
30°-40°	129.7	7.1
40°-50°	213.9	11.7
50°-60°	384.4	21.0
60°-70°	557.1	30.4
70°-80°	347.7	19.0
80°-90°	27.6	1.5
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°	1831.7	100.0
0°-180°	1831.7	100.0

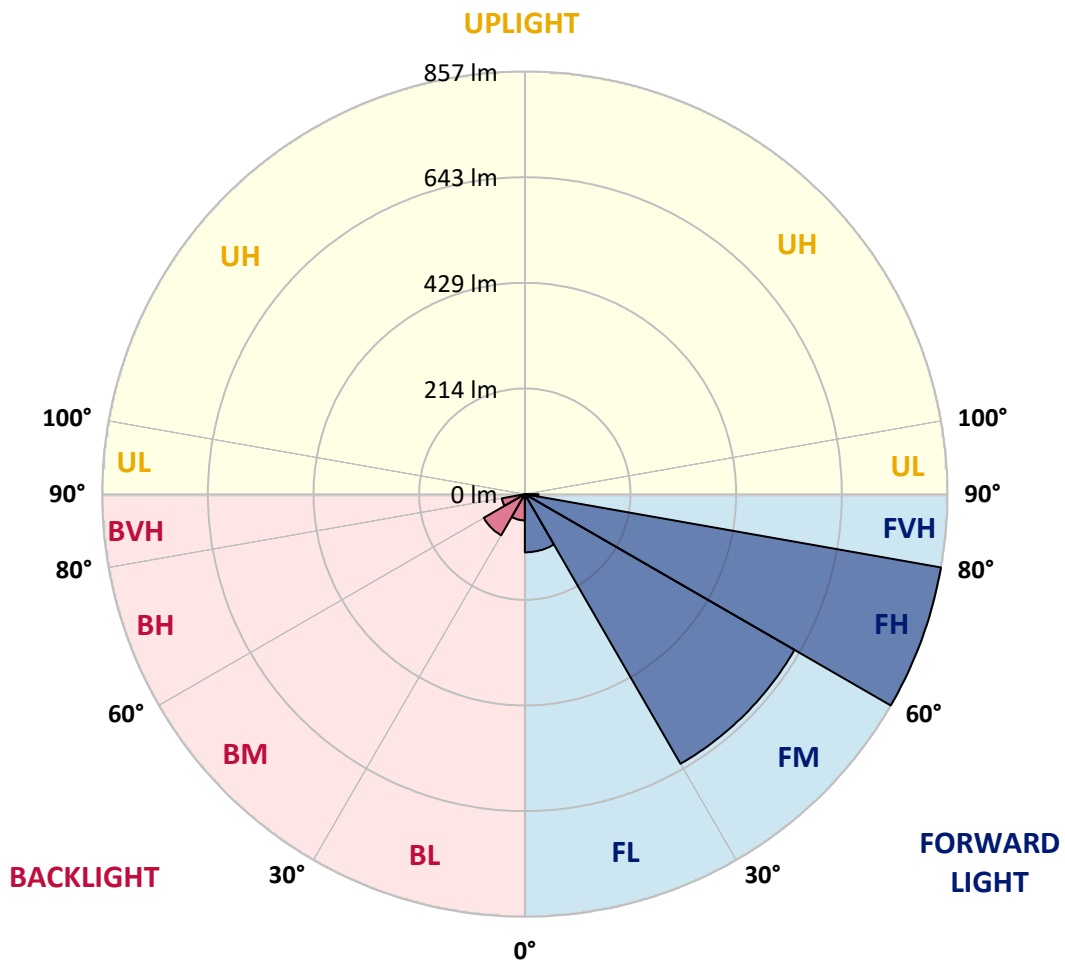


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.1	6.4			
FM (30°-60°)	631.6	34.5			
FH (60°-80°)	857.4	46.8			G1/1800
FVH (80°-90°)	27.4	1.5			G1/100
BL (0°-30°)	53.3	2.9	B0/110		
BM (30°-60°)	96.3	5.3	B0/220		
BH (60°-80°)	47.4	2.6	B0/110		G0/110
BVH (80°-90°)	0.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	219.1	218.2	219.6	219.1	213.5	214.4	214.0	210.2	203.7	200.0	197.6
5°	244.3	246.7	244.8	240.6	237.3	230.8	229.9	223.8	213.5	207.0	200.0
7.5°	270.5	270.5	266.8	260.2	253.2	246.2	245.3	235.0	226.1	214.9	205.1
10°	290.1	287.8	285.0	278.0	270.0	260.7	256.0	248.6	238.7	225.2	212.6
12.5°	307.4	303.7	299.0	288.7	279.4	269.1	270.0	257.9	251.4	239.2	220.5
15°	317.2	314.0	309.8	300.4	285.9	281.3	279.4	271.9	260.2	248.1	230.3
17.5°	319.6	317.2	311.6	299.5	291.5	285.9	285.5	276.6	271.4	261.2	241.5
20°	314.9	310.7	306.5	298.5	291.1	289.2	287.8	287.8	281.3	267.7	248.6
22.5°	307.0	302.3	299.9	295.3	289.2	288.7	289.7	288.7	283.6	274.7	256.0
25°	300.9	298.5	294.8	293.4	289.7	296.7	295.3	293.9	292.5	282.2	267.7
27.5°	302.7	302.3	299.5	293.9	291.1	298.5	302.7	303.2	302.7	292.5	278.5
30°	303.7	301.3	298.5	297.1	298.1	305.6	305.6	315.8	311.6	301.3	289.2
32.5°	314.4	313.0	303.7	300.4	300.9	309.8	310.2	320.5	319.1	312.1	298.5
35°	337.3	328.0	314.4	305.1	305.1	316.8	313.0	328.0	331.7	320.5	305.1
37.5°	371.4	364.4	340.1	319.1	311.2	319.6	323.3	331.7	342.9	333.1	318.2
40°	439.2	437.8	403.2	357.9	326.6	334.1	335.5	348.5	356.0	342.5	338.3
42.5°	538.2	531.2	499.0	427.5	354.6	351.3	356.5	364.9	382.6	371.4	361.1
45°	634.9	631.7	599.4	519.5	405.5	385.9	383.1	398.1	424.2	412.1	404.1
47.5°	705.0	698.5	680.3	613.0	480.3	426.6	428.4	443.4	476.5	467.2	469.5
50°	758.7	755.5	736.3	699.4	574.7	490.6	486.8	501.8	546.6	552.7	559.2
52.5°	817.6	823.7	798.0	766.7	686.3	576.5	568.1	573.3	631.2	645.2	663.4
55°	874.1	884.0	858.3	854.1	803.1	671.8	670.4	658.3	733.0	734.9	744.7
57.5°	911.1	907.8	905.9	928.8	919.9	781.2	774.2	762.0	829.8	817.6	847.0
60°	913.9	923.2	954.5	1011.0	1026.9	909.6	899.4	866.2	913.4	884.4	940.5
62.5°	934.9	942.4	1000.3	1078.3	1098.9	1022.7	1029.7	945.6	984.9	962.0	1044.2
65°	881.6	905.0	1021.3	1130.6	1193.2	1137.2	1130.2	1047.9	1058.2	1036.7	1146.5
67.5°	833.5	842.4	963.8	1146.5	1268.0	1252.1	1249.3	1138.6	1133.9	1094.2	1175.5
70°	677.4	688.2	808.3	1065.2	1293.2	1386.2	1379.7	1265.7	1185.3	1062.9	1026.9
72.5°	388.2	409.7	560.2	820.4	1161.9	1423.6	1429.6	1286.2	1124.6	893.8	685.9
75°	127.1	133.2	232.7	464.9	869.0	1241.8	1231.1	1105.4	907.3	590.1	309.8
77.5°	43.0	43.9	68.7	168.2	481.7	839.1	845.2	790.0	557.4	245.3	85.5
80°	22.0	23.4	33.6	63.1	198.1	456.9	466.7	450.4	233.6	72.4	20.6
82.5°	10.3	10.7	19.6	35.0	90.6	179.4	179.4	197.2	82.7	40.6	8.4
85°	3.7	3.7	10.3	20.1	38.3	59.8	60.3	60.7	43.5	30.4	3.7
87.5°	1.4	1.4	5.1	8.4	14.0	18.2	18.2	14.5	22.0	20.1	1.4
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°	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8	195.8
2.5°	196.7	193.9	191.6	188.3	184.1	181.7	182.2	179.4	179.4	178.0	177.5
5°	196.7	193.9	187.8	182.2	178.5	173.8	171.5	169.6	169.6	168.7	169.1
7.5°	198.1	193.9	185.5	178.0	171.9	167.3	163.5	163.1	162.1	159.8	161.7
10°	206.5	200.4	186.4	176.1	169.1	164.0	157.4	155.6	152.8	148.6	149.0
12.5°	213.5	205.6	193.0	178.9	170.1	161.7	146.7	130.4	123.3	115.9	116.3
15°	223.8	212.6	195.3	182.7	170.1	143.0	115.9	94.8	83.6	78.0	78.0
17.5°	229.4	220.1	201.8	185.0	156.5	116.3	82.2	64.0	62.1	63.1	63.1
20°	241.1	228.5	209.3	186.9	134.1	82.7	60.3	58.4	59.3	61.2	60.7
22.5°	248.6	235.9	214.9	178.5	103.7	59.3	56.5	55.6	56.5	58.9	58.9
25°	254.6	246.7	223.8	157.9	73.4	53.7	52.8	53.7	54.7	55.6	57.0
27.5°	269.6	256.0	229.9	131.3	52.8	50.0	50.9	51.4	51.4	52.8	53.3
30°	279.4	268.6	234.5	101.4	46.7	46.3	47.2	47.7	48.1	49.5	50.0
32.5°	288.7	285.0	228.5	68.7	43.9	43.0	42.5	43.0	44.9	46.3	45.8
35°	302.3	299.9	219.6	47.7	41.1	39.2	38.3	38.8	40.2	41.6	41.1
37.5°	318.6	321.0	198.1	41.6	38.3	36.0	34.1	34.1	34.6	36.0	36.4
40°	337.8	343.9	172.9	38.8	36.4	33.6	31.8	29.4	29.0	28.5	29.0
42.5°	372.8	379.8	144.4	36.9	33.6	30.4	27.6	24.8	22.4	21.0	21.0
45°	421.9	416.3	107.0	35.0	32.2	27.6	23.4	20.1	16.8	15.4	15.4
47.5°	489.6	470.5	73.4	33.2	29.9	24.3	19.6	15.4	12.6	11.2	11.2
50°	583.5	520.5	47.7	31.3	28.5	21.0	15.9	11.2	9.3	8.9	9.3
52.5°	672.3	571.4	37.8	29.0	25.7	18.2	12.1	9.3	8.4	7.9	7.9
55°	754.1	597.1	33.6	26.6	23.4	15.0	10.3	7.9	7.5	7.0	7.0
57.5°	823.2	606.0	29.0	23.4	18.7	11.7	8.4	7.0	6.1	5.6	5.6
60°	883.0	608.3	22.4	18.7	13.5	8.9	7.0	6.1	5.1	4.2	4.2
62.5°	930.7	591.9	15.9	13.1	9.3	7.0	6.1	4.2	2.8	1.9	1.4
65°	968.5	559.2	10.7	8.9	6.1	5.1	3.7	1.9	0.5	0.0	0.0
67.5°	924.1	485.0	8.4	6.5	4.2	3.3	1.9	0.5	0.0	0.0	0.0
70°	753.6	376.1	6.1	4.2	2.8	0.9	0.5	0.0	0.0	0.0	0.0
72.5°	513.0	242.5	4.7	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
75°	230.3	86.9	3.3	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	56.1	20.6	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.0	5.1	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.5	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)