

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: STREETWORKS

Report Number: P694673

Luminaire Tested: **LXF.LXT-PA16-20-827-U-5WQ-FL**

Issue Date: 7/5/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P694673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2306-062-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA16-20-827-U-5WQ-FL  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 420mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
AND FROSTED LENS PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2192 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')  
IES Classification: Type V - Medium  
BUG Rating: B1 - U3 - G2

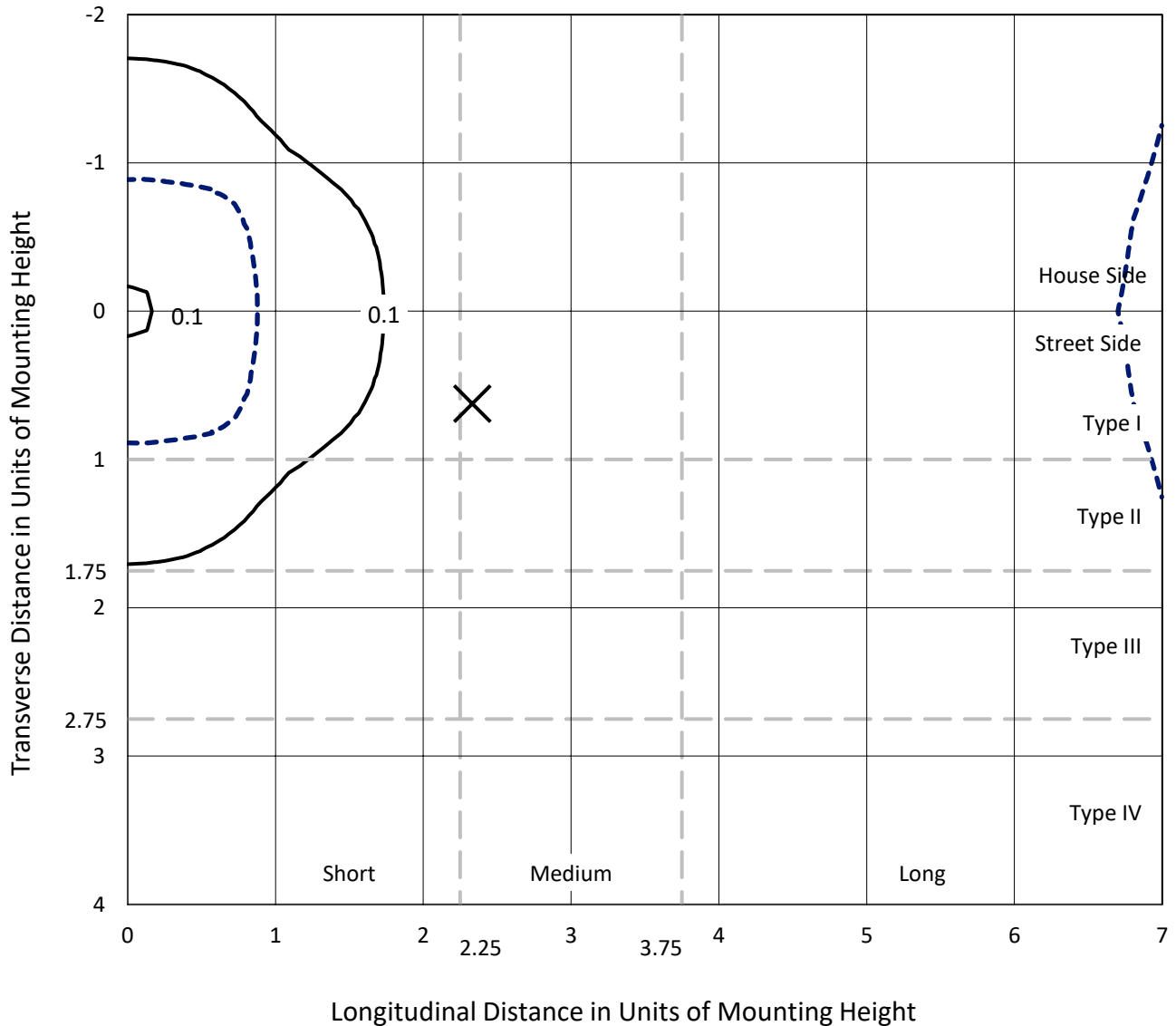
Input Watts (W): 21.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

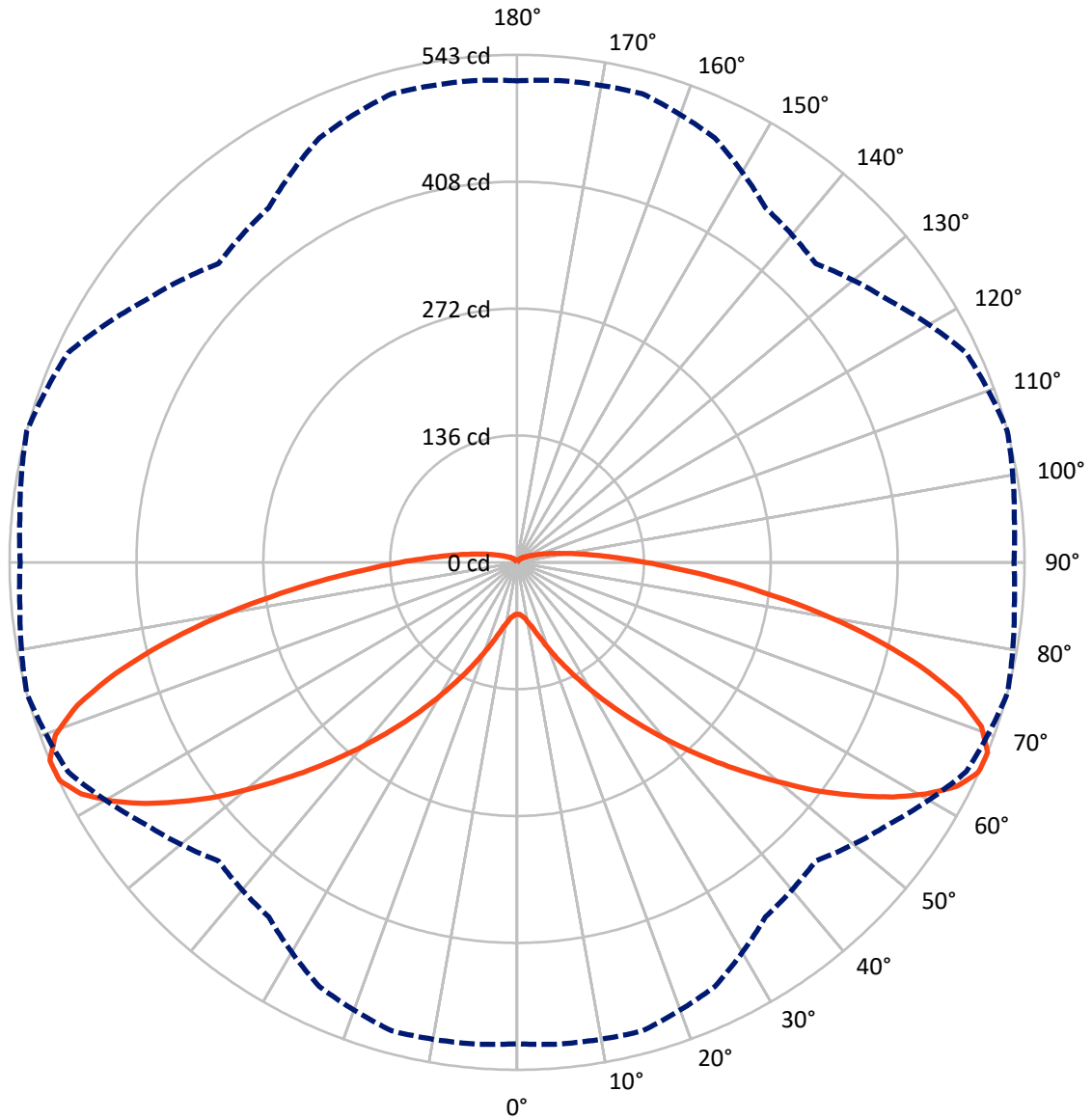
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc  
Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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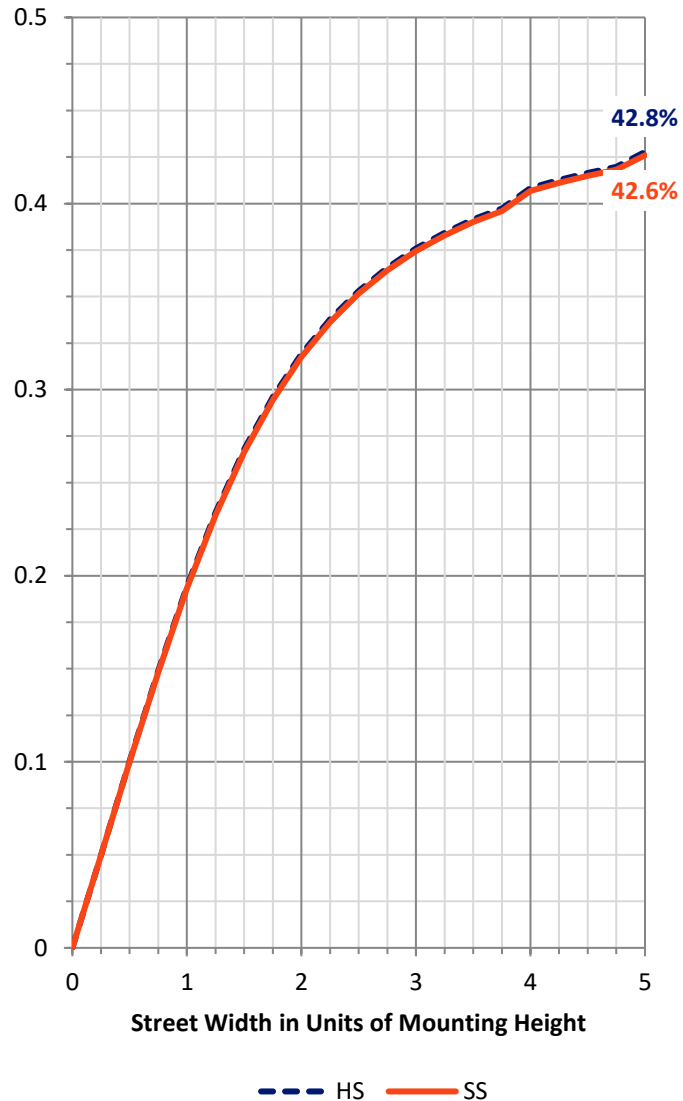
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1000.1	95.9	1096.0
	% Fixture	45.6	4.4	50.0
<b>Street Side</b>	Lumens	1000.1	95.9	1096.0
	% Fixture	45.6	4.4	50.0
<b>Total</b>	Lumens	2000.2	191.8	2192.0
	% Fixture	91.3	8.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.3
10°-20°	23.3	1.1
20°-30°	59.6	2.7
30°-40°	125.0	5.7
40°-50°	228.1	10.4
50°-60°	369.3	16.8
60°-70°	491.3	22.4
70°-80°	447.8	20.4
80°-90°	250.3	11.4
90°-100°	106.4	4.9
100°-110°	46.1	2.1
110°-120°	21.7	1.0
120°-130°	10.7	0.5
130°-140°	5.0	0.2
140°-150°	1.8	0.1
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2000.2	91.3
0°-180°	2192.0	100.0

**Coefficient of Utilization**

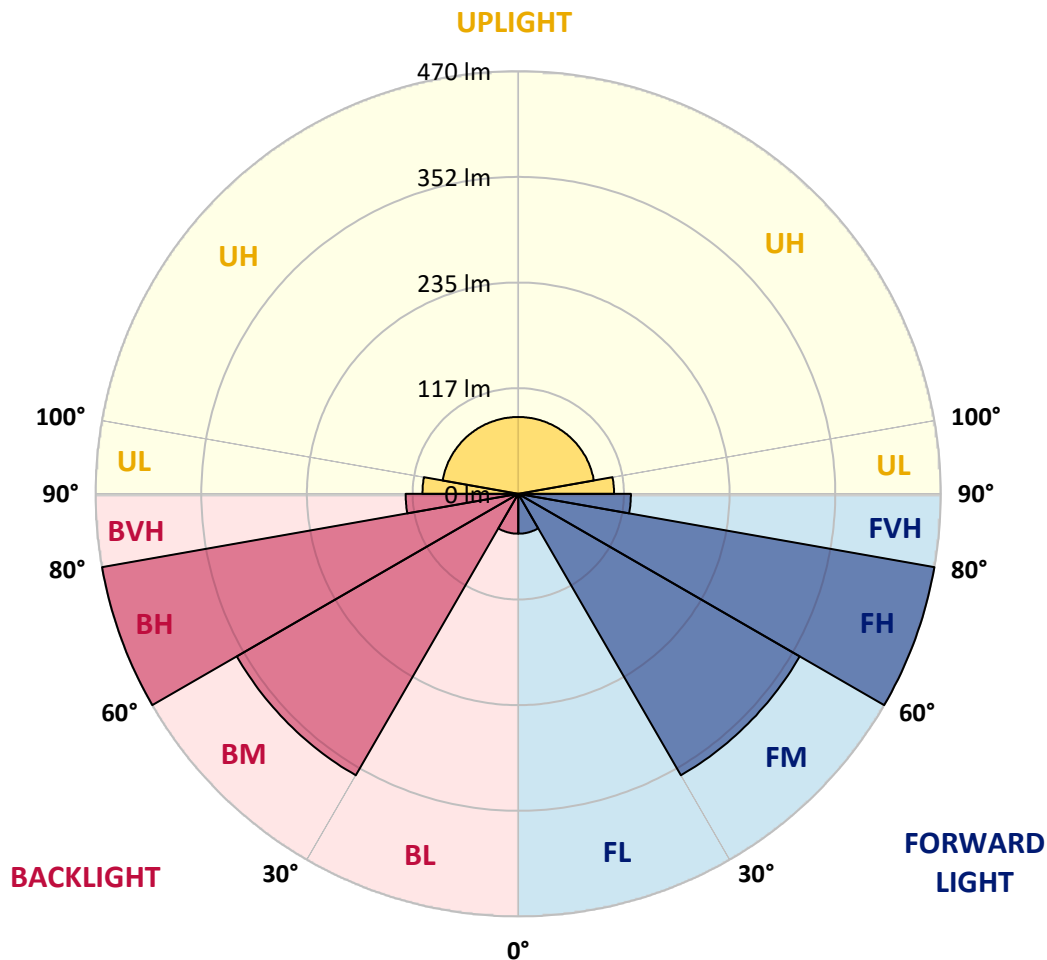


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.3	2.0			
FM (30°-60°)	361.1	16.5			
FH (60°-80°)	469.5	21.4			G0/660
FVH (80°-90°)	125.1	5.7			G2/225
BL (0°-30°)	44.3	2.0	B0/110		
BM (30°-60°)	361.1	16.5	B1/1000		
BH (60°-80°)	469.5	21.4	B1/500		G0/660
BVH (80°-90°)	125.1	5.7			G2/225
UL (90°-100°)	106.4	4.9		U3/500	
UH (100°-180°)	85.3	3.9		U3/500	

**BUG Rating: B1-U3-G2**  
 Type V Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
2.5°	55.8	55.8	55.8	55.8	55.8	56.5	56.5	55.8	55.8	55.8	55.8
5°	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
7.5°	60.3	60.3	60.3	61.0	61.0	61.0	61.0	60.3	60.3	60.3	61.0
10°	65.6	65.6	64.8	65.6	64.8	64.8	65.6	64.8	65.6	64.8	64.8
12.5°	71.6	71.6	71.6	71.6	70.8	70.8	70.8	70.8	70.8	71.6	71.6
15°	79.9	79.9	79.9	79.1	78.4	77.6	78.4	79.1	79.1	79.9	79.9
17.5°	90.4	90.4	89.7	88.9	88.2	87.4	87.4	88.2	88.9	89.7	89.7
20°	101.7	101.7	101.0	99.5	98.0	98.7	98.7	99.5	100.2	101.0	101.0
22.5°	114.6	113.8	113.1	111.5	110.8	110.0	110.8	110.8	113.1	114.6	113.8
25°	128.9	128.9	127.4	125.1	123.6	123.6	124.4	125.1	127.4	128.9	129.6
27.5°	145.5	144.0	142.4	140.2	137.9	137.2	137.9	140.9	143.2	146.2	145.5
30°	163.6	162.8	159.8	156.8	153.0	151.5	154.5	157.5	161.3	163.6	165.1
32.5°	183.1	183.1	179.4	174.1	169.6	168.1	170.3	176.4	180.9	183.9	186.2
35°	204.3	204.3	199.7	193.7	187.7	184.7	189.2	196.7	202.7	207.3	208.0
37.5°	229.1	227.6	223.1	214.8	205.0	203.5	208.8	217.8	226.1	231.4	231.4
40°	254.0	252.5	248.0	237.4	224.6	222.3	228.4	241.9	251.7	256.3	257.0
42.5°	281.1	278.9	274.3	263.0	247.2	242.7	251.7	267.6	278.9	284.1	284.1
45°	307.5	308.3	301.5	288.7	271.3	264.5	275.9	294.7	308.3	312.8	314.3
47.5°	336.9	337.7	330.9	315.0	295.5	289.4	302.2	322.6	339.2	342.9	344.4
50°	369.3	369.3	364.0	344.4	322.6	314.3	330.1	356.5	372.3	376.1	376.9
52.5°	401.0	400.2	396.4	374.6	349.7	340.7	358.8	388.9	407.8	408.5	408.5
55°	432.6	431.9	427.3	406.2	376.9	367.1	388.9	422.8	440.9	442.4	443.2
57.5°	460.5	460.5	456.0	434.9	402.5	391.9	417.6	455.2	474.1	474.1	474.1
60°	486.1	486.1	483.9	461.3	426.6	415.3	444.7	485.4	503.5	501.2	501.2
62.5°	505.7	506.5	505.0	482.4	445.4	434.9	467.3	510.3	528.3	523.8	521.6
65°	517.0	517.8	518.5	497.4	459.8	448.5	482.4	527.6	542.7	535.9	533.6
67.5°	515.5	517.8	519.3	501.2	463.5	452.2	487.6	530.6	543.4	534.4	532.1
70°	501.2	504.2	507.2	492.2	457.5	446.9	480.9	520.8	527.6	517.0	513.3
72.5°	473.3	474.1	481.6	471.1	440.9	430.4	459.8	493.7	495.2	482.4	477.8
75°	431.9	431.9	441.7	434.1	411.5	402.5	426.6	451.5	446.9	433.4	428.1
77.5°	379.1	382.9	391.2	390.4	372.3	367.8	385.1	396.4	389.7	372.3	367.1
80°	320.3	323.3	335.4	338.4	327.9	323.3	335.4	339.2	328.6	311.3	306.8
82.5°	266.1	269.1	280.4	288.7	281.9	278.1	284.1	281.1	266.1	251.0	248.0
85°	216.3	217.1	230.6	236.7	236.7	233.6	234.4	226.1	212.5	196.7	192.2
87.5°	172.6	172.6	184.7	193.7	196.0	193.7	191.4	180.9	165.8	153.0	152.2
90°	136.4	137.2	147.0	156.0	159.8	158.3	153.0	142.4	130.4	119.1	117.6
92.5°	108.5	110.0	117.6	126.6	131.1	130.4	124.4	114.6	102.5	93.5	92.7
95°	87.4	87.4	94.2	101.7	107.0	107.0	101.7	92.0	81.4	73.1	72.4
97.5°	69.3	70.1	76.1	82.9	87.4	87.4	82.9	74.6	64.8	58.0	56.5
100°	56.5	56.5	61.0	67.8	72.4	72.4	67.8	60.3	52.0	46.0	45.2
102.5°	45.2	46.0	49.7	55.8	59.5	60.3	56.5	50.5	42.2	36.9	36.9
105°	37.7	37.7	41.5	46.0	49.7	50.5	47.5	41.5	34.7	30.1	29.4
107.5°	30.9	30.9	33.9	39.2	42.2	43.0	39.9	34.7	28.6	24.9	24.1
110°	26.4	25.6	27.9	32.4	36.2	36.2	33.9	29.4	23.4	20.3	20.3

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	21.9	21.9	23.4	27.1	30.1	31.7	29.4	24.9	19.6	17.3	17.3
115°	18.8	18.8	20.3	23.4	26.4	26.4	24.9	20.3	16.6	15.1	15.1
117.5°	16.6	16.6	17.3	19.6	21.9	22.6	21.1	17.3	14.3	12.8	12.8
120°	14.3	14.3	15.1	16.6	18.8	19.6	18.1	15.1	12.1	11.3	11.3
122.5°	12.8	12.8	12.8	14.3	16.6	16.6	15.1	12.8	10.6	9.8	9.8
125°	11.3	11.3	11.3	12.1	13.6	14.3	12.8	10.6	9.0	9.0	9.0
127.5°	9.8	9.8	9.8	10.6	12.1	12.1	11.3	9.0	8.3	8.3	8.3
130°	9.0	9.0	9.0	9.0	9.8	9.8	9.0	7.5	7.5	7.5	7.5
132.5°	7.5	7.5	7.5	7.5	8.3	8.3	7.5	6.8	6.0	6.8	6.8
135°	6.8	6.8	6.8	6.8	6.8	6.8	6.0	5.3	5.3	6.0	6.0
137.5°	6.0	6.0	6.0	5.3	5.3	5.3	4.5	4.5	5.3	5.3	5.3
140°	5.3	5.3	4.5	4.5	4.5	3.8	3.8	3.8	4.5	4.5	4.5
142.5°	4.5	4.5	3.8	3.8	3.0	3.0	3.0	3.0	3.8	3.8	3.8
145°	3.0	3.0	3.0	3.0	2.3	2.3	2.3	2.3	3.0	3.0	3.0
147.5°	2.3	2.3	2.3	2.3	1.5	1.5	1.5	2.3	2.3	2.3	2.3
150°	1.5	1.5	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	1.5
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)