

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: P254256

Luminaire Tested: **LXF.LXT-AF24-20-D-U-5WQ-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-20-D-U-5WQ-A
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND REFRACTOR PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U3 - G2

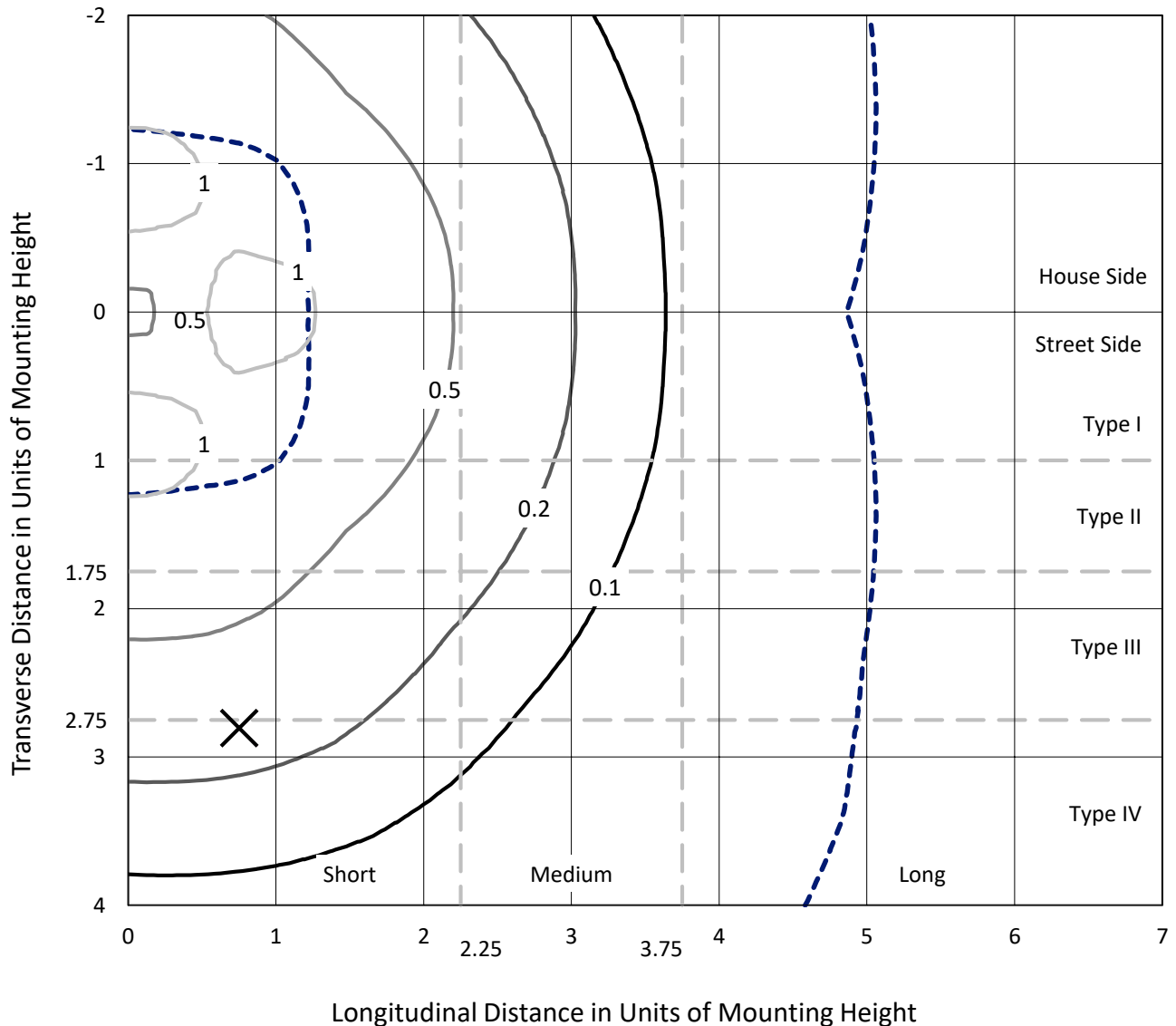
Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

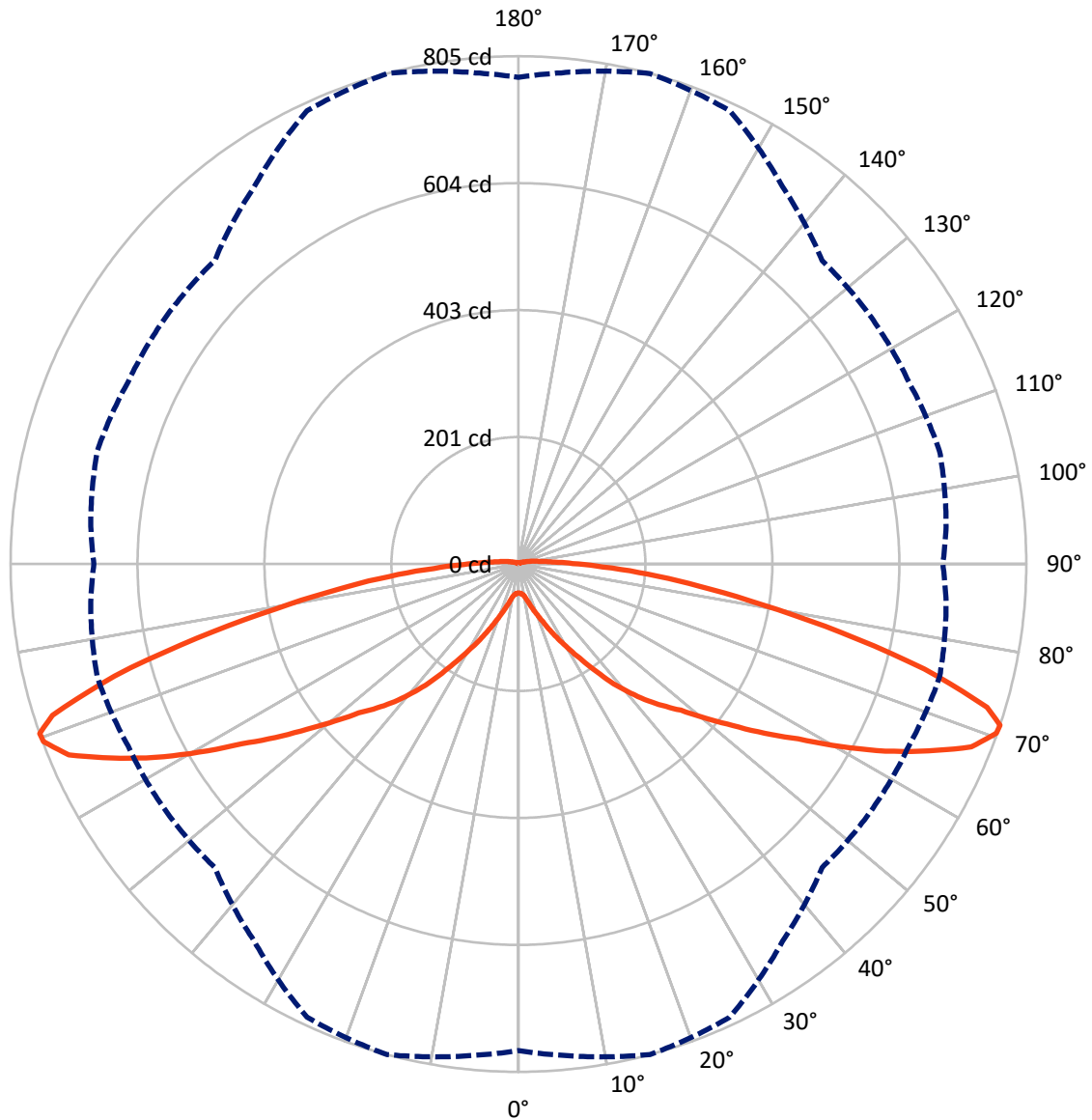
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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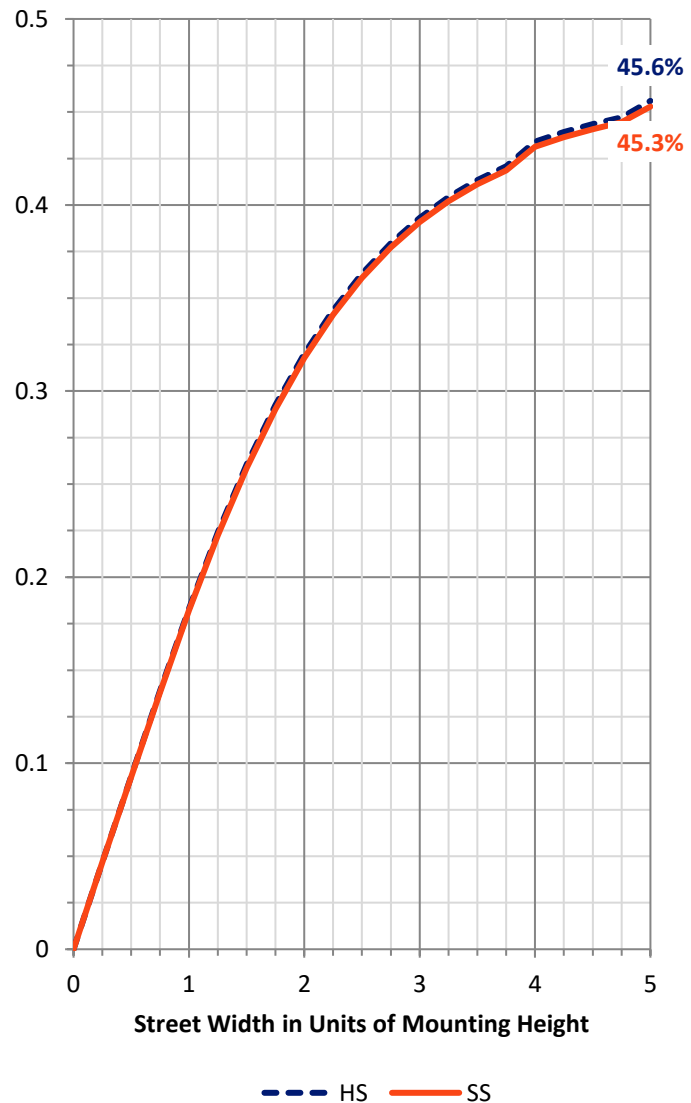
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.9	52.1	1249.0
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	1196.9	52.1	1249.0
	% Fixture	47.9	2.1	50.0
Total	Lumens	2393.8	104.3	2498.1
	% Fixture	95.8	4.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.2
10°-20°	18.5	0.7
20°-30°	52.4	2.1
30°-40°	122.1	4.9
40°-50°	228.0	9.1
50°-60°	406.8	16.3
60°-70°	666.9	26.7
70°-80°	623.8	25.0
80°-90°	270.6	10.8
90°-100°	68.3	2.7
100°-110°	19.9	0.8
110°-120°	8.2	0.3
120°-130°	4.3	0.2
130°-140°	2.4	0.1
140°-150°	0.9	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2393.8	95.8
0°-180°	2498.1	100.0

Coefficient of Utilization



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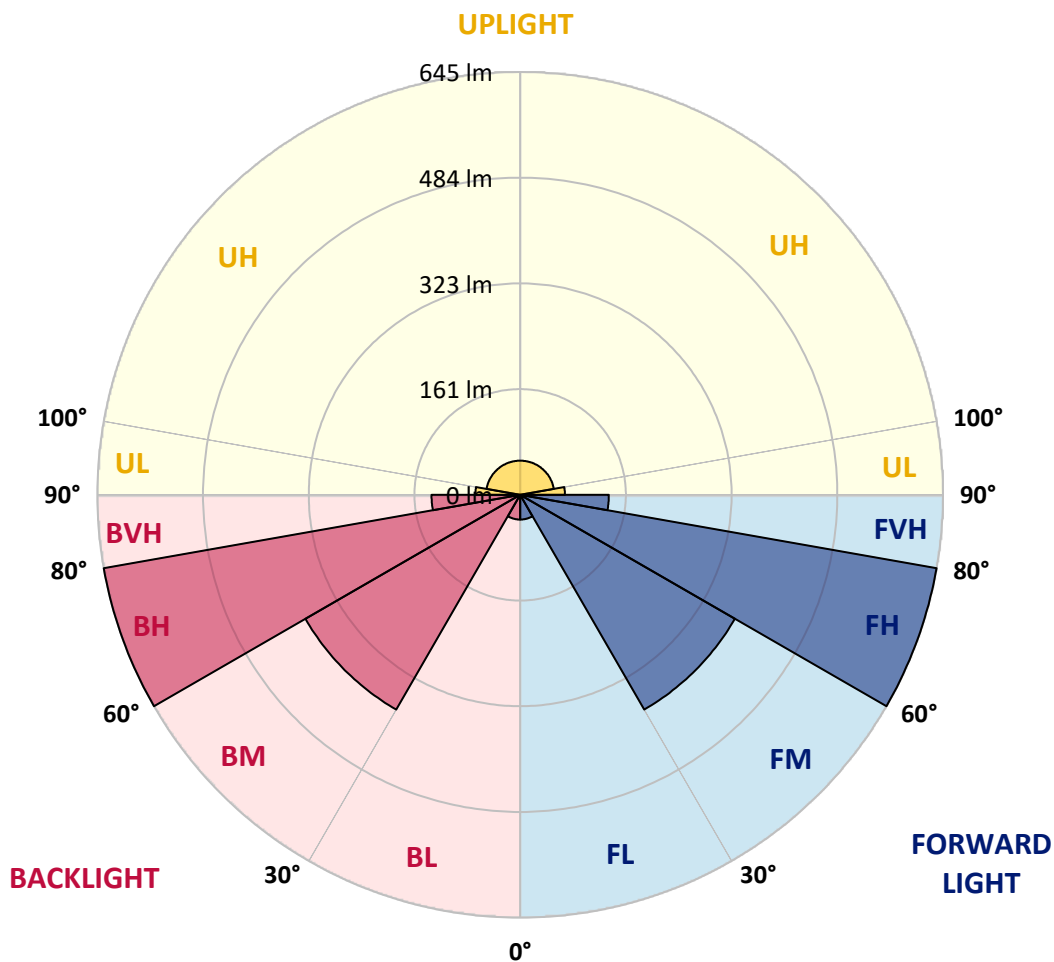
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	37.8	1.5			
FM (30°-60°)	378.5	15.2			
FH (60°-80°)	645.4	25.8			G0/660
FVH (80°-90°)	135.3	5.4			G2/225
BL (0°-30°)	37.8	1.5	B0/110		
BM (30°-60°)	378.5	15.2	B1/1000		
BH (60°-80°)	645.4	25.8	B2/1000		G0/660
BVH (80°-90°)	135.3	5.4			G2/225
UL (90°-100°)	68.3	2.7		U3/500	
UH (100°-180°)	52.1	2.1		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
2.5°	46.3	46.3	46.3	46.5	46.5	46.5	46.3	46.3	46.0	46.0	46.0
5°	47.2	47.2	47.2	47.2	47.2	47.2	46.9	46.9	46.5	46.5	46.5
7.5°	48.6	48.6	48.6	48.6	48.6	48.3	48.0	47.7	47.7	47.7	47.7
10°	51.7	51.7	51.4	51.1	50.8	50.2	50.2	50.0	50.0	50.0	50.2
12.5°	58.2	58.2	57.3	56.0	54.2	53.6	53.4	53.9	54.7	55.0	55.6
15°	66.6	66.6	65.5	63.2	60.7	58.4	59.0	60.7	62.1	63.0	63.5
17.5°	77.1	77.1	75.4	72.3	68.6	67.2	66.9	69.2	71.4	73.1	74.3
20°	88.7	88.7	86.4	82.1	78.5	77.6	77.3	79.1	82.4	85.0	86.1
22.5°	102.8	103.0	99.6	94.0	90.3	88.7	88.4	90.6	96.0	99.6	101.1
25°	120.3	120.3	116.6	108.7	103.6	100.8	101.4	105.6	113.2	118.3	119.2
27.5°	139.7	139.2	134.4	125.9	118.6	114.4	115.8	122.2	131.6	139.2	140.3
30°	161.5	160.9	154.2	145.2	134.7	129.6	131.9	141.2	153.9	164.6	166.0
32.5°	186.6	186.1	177.6	166.0	152.2	145.4	149.7	163.0	178.4	192.3	194.3
35°	216.9	216.3	205.0	188.9	172.0	163.8	169.4	185.5	203.9	220.5	223.0
37.5°	248.5	248.5	236.6	215.9	193.6	183.5	189.8	208.1	229.9	246.2	249.0
40°	277.2	277.2	265.4	245.4	218.3	204.7	211.2	230.1	249.6	264.2	267.1
42.5°	303.8	304.6	293.7	273.0	244.0	228.4	232.4	249.0	269.0	285.4	288.3
45°	325.0	326.6	319.9	300.4	271.3	253.0	254.4	273.3	297.1	314.3	317.6
47.5°	350.7	351.0	346.2	327.8	300.4	280.4	281.5	303.8	329.8	347.6	349.2
50°	387.1	387.9	383.7	362.8	334.0	311.4	317.1	340.2	372.5	391.4	391.9
52.5°	427.5	428.3	425.2	406.0	373.0	351.3	360.0	386.8	418.7	434.5	433.9
55°	469.8	471.8	473.5	455.7	420.7	398.4	410.2	438.2	467.8	483.3	481.7
57.5°	517.0	518.4	522.9	507.1	475.8	454.0	469.0	496.9	527.1	542.1	539.6
60°	581.6	583.9	587.6	565.8	533.4	516.1	532.5	562.1	592.9	602.0	598.5
62.5°	640.4	642.9	653.1	636.7	594.3	576.2	598.0	626.6	652.2	656.4	650.8
65°	697.7	700.5	714.3	700.2	658.2	632.5	655.3	678.7	702.8	705.8	700.2
67.5°	749.9	757.5	774.2	754.7	707.3	677.9	690.9	709.8	731.0	727.3	720.3
70°	776.7	786.6	803.5	790.0	731.3	686.9	694.0	699.7	709.8	704.7	698.6
71°	771.4	781.5	805.0	792.6	729.9	680.5	682.4	682.7	691.2	680.5	672.8
72.5°	732.9	743.7	776.7	778.5	715.8	661.8	653.1	646.0	641.5	622.3	616.3
75°	613.6	627.7	664.6	685.8	650.8	598.3	583.1	559.3	546.4	524.4	522.9
77.5°	477.4	486.7	522.9	555.1	545.5	511.6	494.4	471.3	457.7	440.5	430.3
80°	355.8	358.9	391.6	428.0	439.1	425.4	412.8	391.9	375.8	359.2	350.4
82.5°	253.0	258.9	288.6	328.1	354.0	354.7	345.6	322.1	304.1	286.6	279.8
85°	171.1	177.1	205.8	247.7	281.2	295.6	286.6	255.8	228.7	208.4	204.2
87.5°	107.3	112.9	133.8	171.1	215.4	237.4	227.0	188.9	158.1	139.4	135.8
90°	70.3	73.7	86.1	110.4	148.5	179.0	167.2	131.6	105.4	88.7	87.0
92.5°	48.6	49.7	57.3	71.4	98.8	123.4	114.7	88.7	69.2	57.3	55.6
95°	34.7	35.9	40.6	49.1	66.1	81.0	76.2	60.1	47.2	39.0	37.8
97.5°	25.7	26.5	30.8	36.4	46.5	54.5	51.1	42.7	34.5	28.2	27.4
100°	20.0	20.4	24.0	28.2	34.7	39.0	36.4	31.9	26.5	22.0	21.5
102.5°	15.9	16.1	18.9	22.3	26.8	30.0	27.9	24.6	20.6	17.5	17.2
105°	12.4	12.7	14.7	17.8	21.5	23.4	22.0	19.2	15.9	13.5	13.5
107.5°	9.9	10.1	11.6	14.1	17.2	18.9	17.8	14.9	12.4	10.7	10.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	8.2	8.2	9.3	11.3	14.1	15.5	14.4	11.9	9.9	8.8	8.5
112.5°	6.8	6.8	7.7	9.3	11.6	12.7	11.9	9.6	7.9	7.1	7.1
115°	5.6	5.9	6.2	7.9	9.9	10.7	9.9	8.2	6.4	5.9	5.9
117.5°	5.1	5.1	5.6	6.8	8.5	9.3	8.5	7.1	5.6	5.3	5.3
120°	4.5	4.5	4.8	5.6	7.4	7.9	7.4	5.9	5.1	4.8	4.8
122.5°	4.2	4.2	4.2	5.1	6.2	7.1	6.4	5.3	4.5	4.2	4.2
125°	4.0	4.0	4.0	4.5	5.6	5.9	5.6	4.8	4.0	4.0	4.0
127.5°	4.0	4.0	4.0	4.2	4.8	5.3	5.1	4.2	3.7	3.7	3.7
130°	3.7	3.7	3.7	4.0	4.2	4.5	4.2	4.0	3.7	3.7	3.7
132.5°	3.4	3.4	3.4	3.4	3.7	4.0	3.7	3.4	3.4	3.4	3.4
135°	3.1	3.1	3.1	2.9	3.1	3.4	3.1	2.9	2.9	3.1	3.1
137.5°	2.9	2.9	2.6	2.6	2.6	2.9	2.6	2.6	2.6	2.6	2.9
140°	2.6	2.6	2.3	2.3	2.3	2.3	1.9	1.9	1.9	2.3	2.3
142.5°	2.3	1.9	1.9	1.7	1.7	1.7	1.7	1.4	1.7	1.9	1.9
145°	1.7	1.7	1.7	1.4	1.4	1.4	1.1	1.1	1.4	1.4	1.4
147.5°	1.4	1.4	1.1	1.1	0.8	0.8	0.8	0.8	1.1	1.1	1.1
150°	1.1	1.1	0.8	0.8	0.6	0.6	0.6	0.6	0.8	0.8	0.8
152.5°	0.8	0.8	0.6	0.6	0.6	0.3	0.3	0.3	0.6	0.6	0.6
155°	0.6	0.6	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3
157.5°	0.3	0.3	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)