

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: P239821

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 1848 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

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

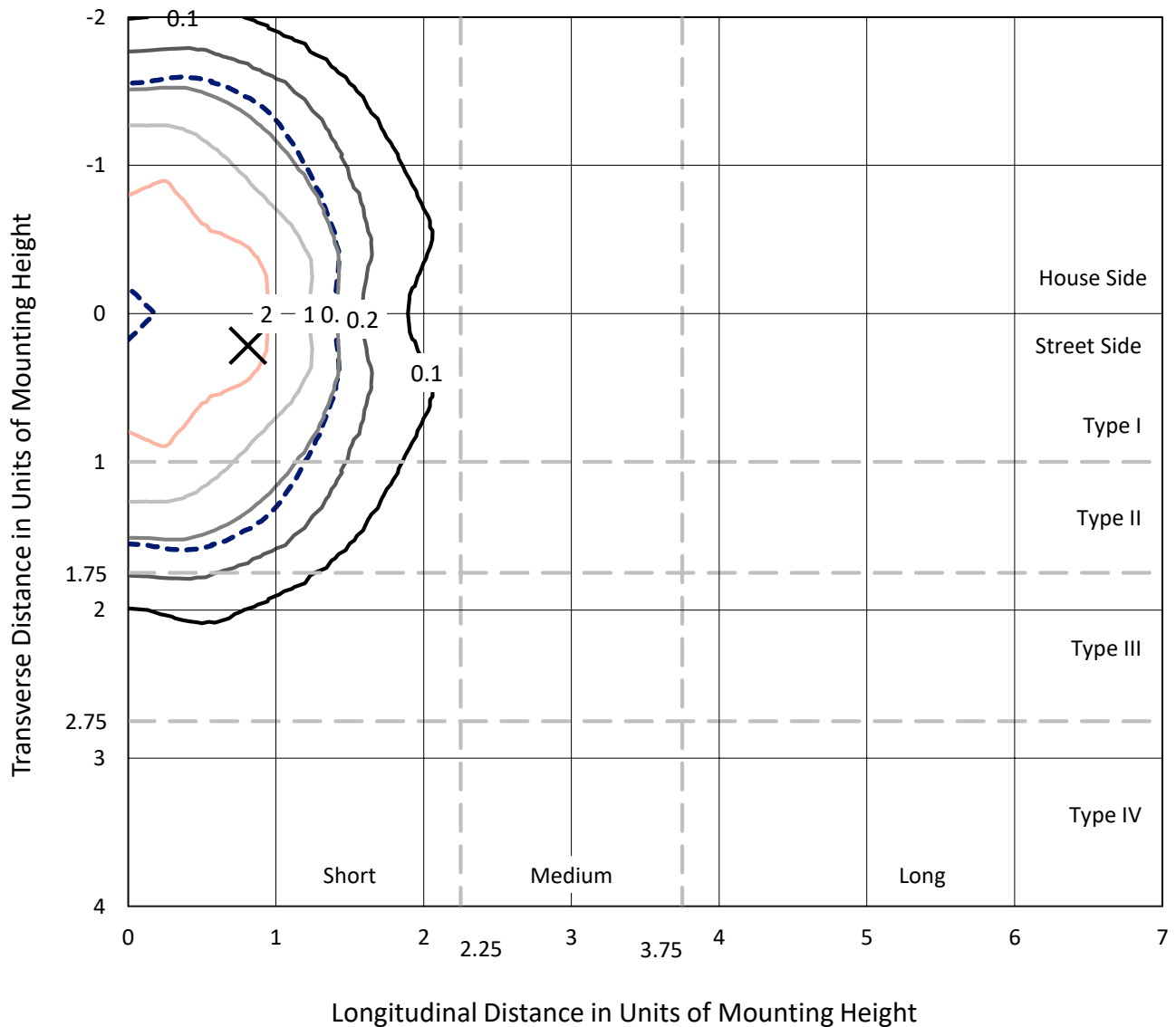


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

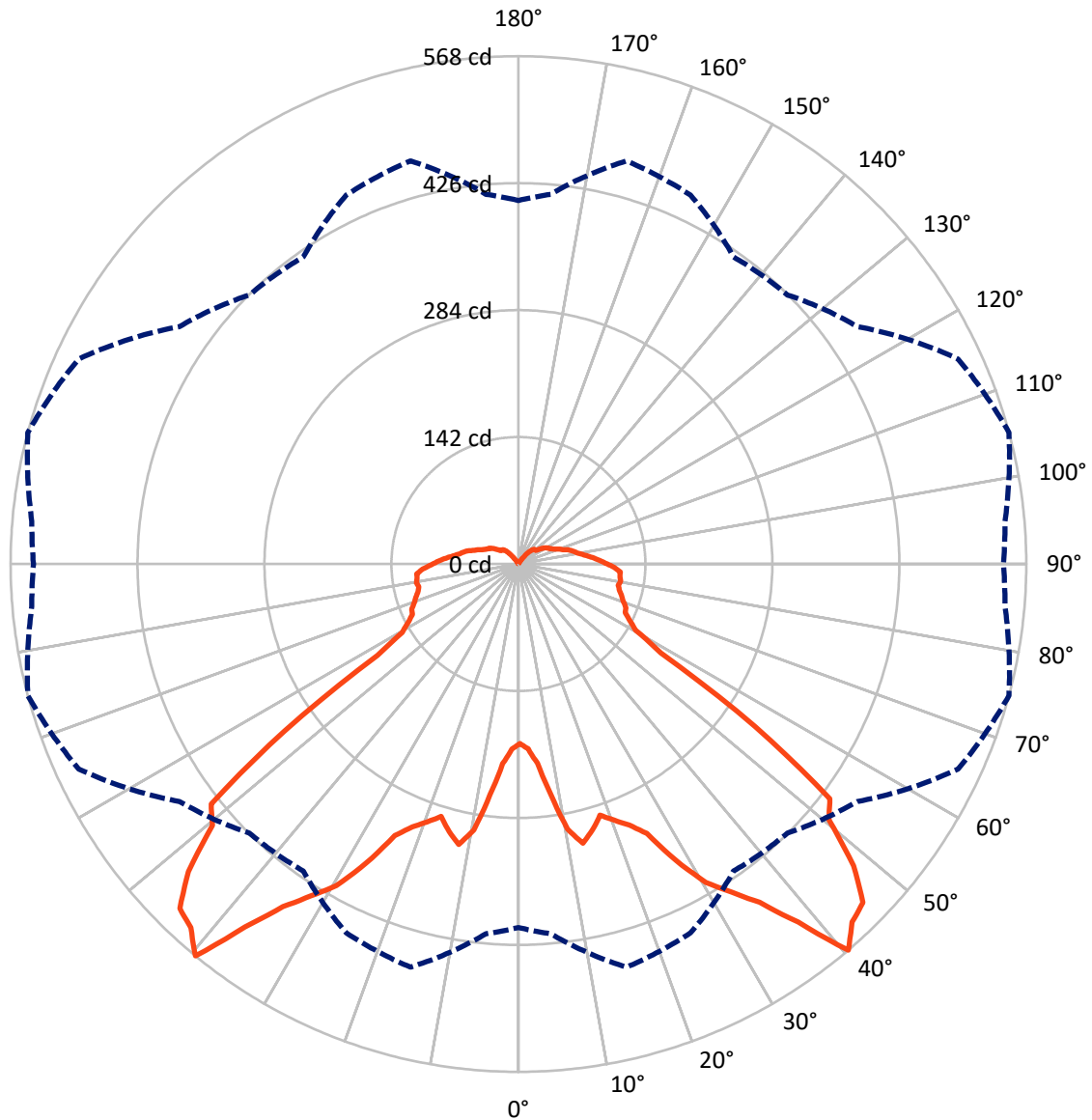


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

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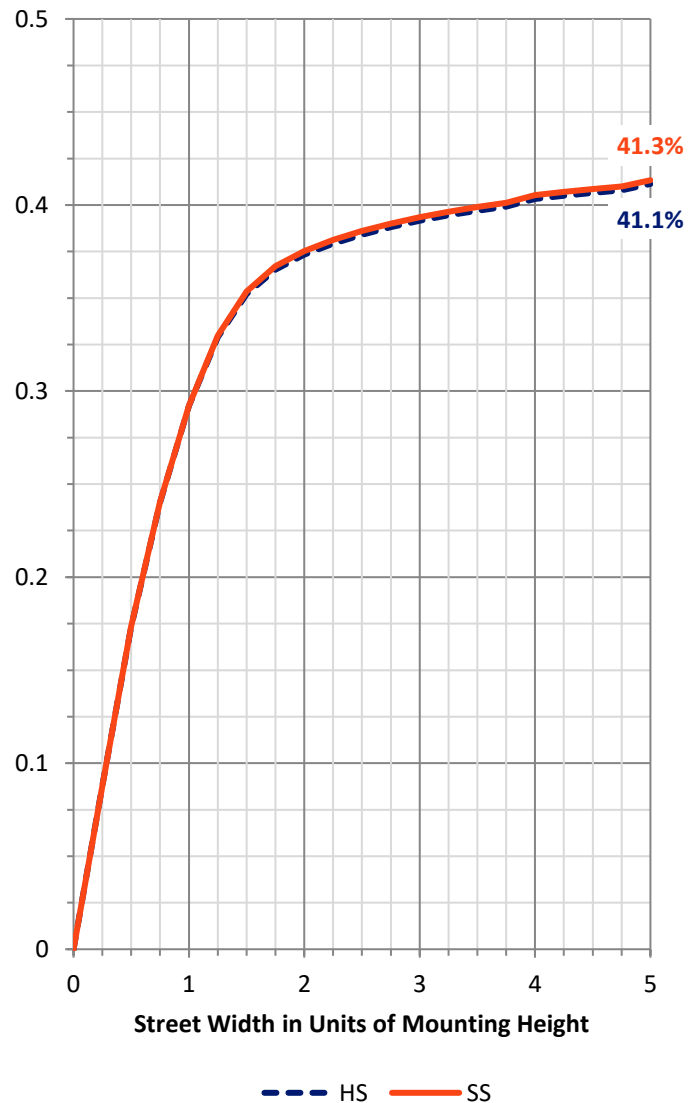
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.8	125.2	924.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	798.8	125.2	924.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	1597.6	250.4	1848.0
	% Fixture	86.5	13.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.3
10°-20°	96.3	5.2
20°-30°	171.9	9.3
30°-40°	272.2	14.7
40°-50°	365.2	19.8
50°-60°	290.7	15.7
60°-70°	133.4	7.2
70°-80°	121.6	6.6
80°-90°	122.5	6.6
90°-100°	94.2	5.1
100°-110°	65.8	3.6
110°-120°	43.5	2.4
120°-130°	27.2	1.5
130°-140°	15.9	0.9
140°-150°	3.6	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1597.6	86.5
0°-180°	1848.0	100.0



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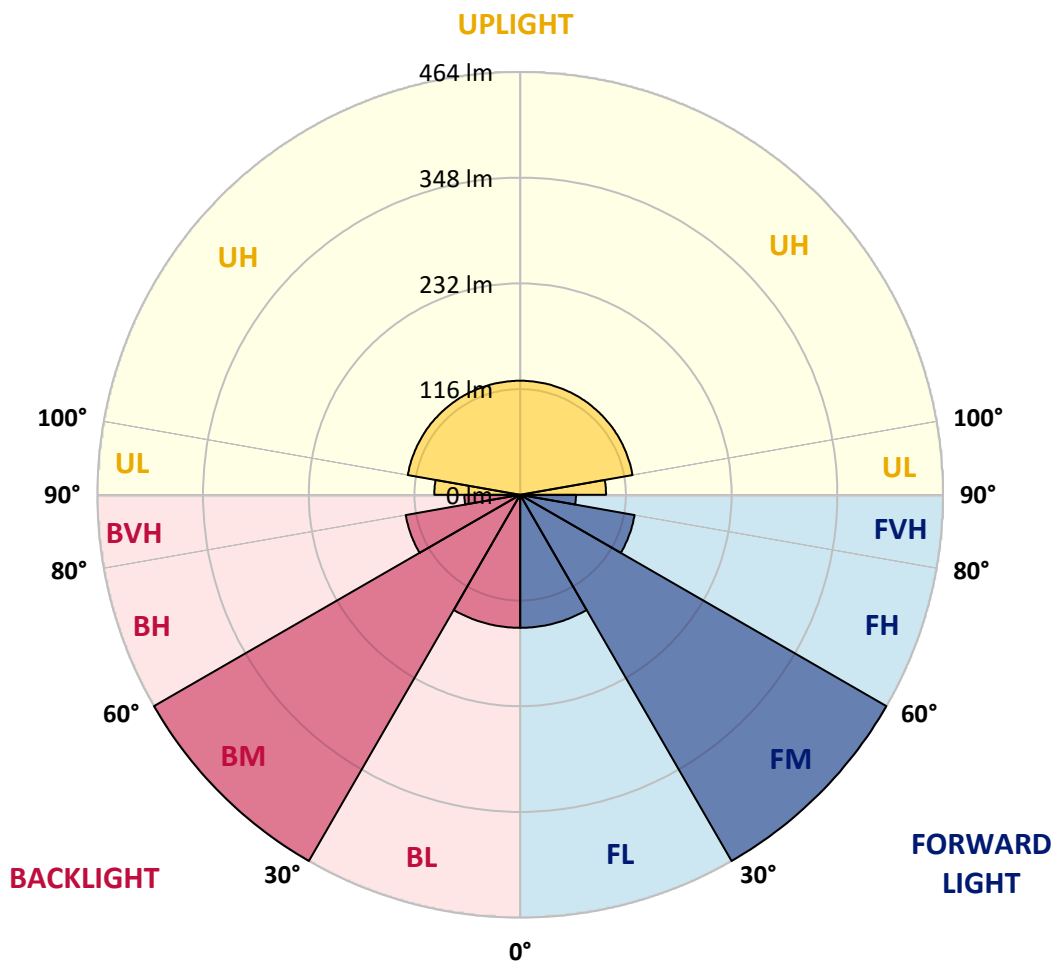
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.9	7.9			
FM (30°-60°)	464.1	25.1			
FH (60°-80°)	127.5	6.9			G0/660
FVH (80°-90°)	61.3	3.3			G1/100
BL (0°-30°)	145.9	7.9	B1/500		
BM (30°-60°)	464.1	25.1	B1/1000		
BH (60°-80°)	127.5	6.9	B1/500		G0/660
BVH (80°-90°)	61.3	3.3			G1/100
UL (90°-100°)	94.2	5.1		U3/500	
UH (100°-180°)	125.2	6.8		U3/500	

BUG Rating: B1-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8
2.5°	206.2	206.2	206.2	205.7	206.2	206.7	207.2	207.2	207.0	206.2	205.7
5°	220.7	220.7	220.5	221.0	221.0	220.0	220.5	222.2	223.9	222.7	222.2
7.5°	255.9	255.2	253.5	252.0	250.3	250.3	254.0	256.2	260.1	260.6	259.4
10°	291.4	292.3	293.3	293.3	297.5	302.2	305.4	304.4	301.5	299.2	297.8
12.5°	301.7	302.4	311.0	332.7	348.7	361.7	350.7	333.9	320.6	312.0	311.0
15°	309.6	311.5	322.4	349.4	389.5	400.4	377.5	334.9	309.1	296.8	294.1
17.5°	317.4	319.7	337.9	377.0	408.7	406.0	378.5	332.9	295.3	279.1	277.1
20°	310.6	313.0	338.6	391.0	414.2	401.1	391.5	348.7	305.9	287.2	285.0
22.5°	313.3	315.7	341.6	392.5	406.8	407.5	392.7	367.2	317.0	295.5	292.1
25°	318.2	320.2	352.1	403.6	403.8	401.9	394.5	380.4	333.7	313.3	310.3
27.5°	318.2	319.9	355.8	398.9	401.6	397.2	406.5	411.7	375.8	357.6	358.3
30°	332.5	333.4	370.6	398.4	392.3	395.7	422.0	437.8	413.2	383.9	383.6
32.5°	360.3	364.9	404.1	415.4	391.3	394.5	426.0	453.5	437.5	402.3	398.4
35°	395.9	397.2	433.1	430.2	398.4	396.7	435.3	478.4	464.8	430.2	428.9
37.5°	407.5	409.2	452.1	444.2	407.0	408.5	450.8	508.7	508.2	480.4	471.5
40°	406.5	415.1	466.8	455.3	419.3	425.5	462.9	542.6	568.0	546.3	542.4
42.5°	479.9	484.3	514.6	472.7	430.6	430.6	467.8	536.0	547.3	505.9	497.8
45°	487.5	487.2	520.5	487.0	433.6	423.5	450.3	510.6	540.2	512.8	500.8
47.5°	471.7	477.9	519.2	478.9	428.2	403.3	420.3	481.6	504.5	462.4	452.8
50°	454.8	459.4	490.9	441.7	401.4	383.6	396.4	440.7	449.8	399.1	391.8
52.5°	408.3	408.7	446.1	407.3	378.0	359.8	370.1	411.2	436.1	387.6	382.4
55°	346.0	352.6	400.1	376.0	350.4	334.7	336.6	343.5	321.6	249.0	232.1
57.5°	264.5	273.2	328.5	329.8	310.1	285.0	257.4	218.0	187.8	120.6	115.9
60°	180.1	187.5	229.3	239.7	247.6	218.8	178.2	155.5	150.8	104.6	101.1
62.5°	111.5	117.6	156.8	160.4	177.7	159.7	141.3	134.4	139.8	99.9	97.4
65°	103.1	107.3	136.1	130.7	134.9	133.9	125.7	124.5	131.2	97.4	95.7
67.5°	99.7	103.1	126.0	122.1	123.8	125.3	119.6	120.6	129.7	99.4	97.4
70°	97.9	101.6	122.8	120.1	121.8	123.3	119.8	118.4	124.3	100.2	97.4
72.5°	96.7	100.6	117.9	116.2	120.8	124.8	121.3	118.1	120.6	100.6	97.9
75°	94.5	98.4	113.4	114.4	121.6	126.2	121.8	116.9	116.6	99.7	96.5
77.5°	94.0	98.4	108.8	114.9	121.8	128.0	124.5	117.4	114.2	100.2	96.2
80°	93.3	98.2	111.0	118.9	123.8	127.0	125.5	120.6	115.9	103.8	99.7
82.5°	97.4	101.9	113.0	121.8	123.3	122.8	122.8	119.6	114.4	104.1	100.2
85°	102.6	106.1	117.6	122.8	121.6	118.4	116.9	116.6	114.2	106.8	103.6
87.5°	101.6	104.1	112.0	116.9	117.4	111.0	111.2	109.8	107.0	99.7	97.0
90°	95.0	96.7	105.6	110.7	107.5	102.4	100.2	97.2	97.4	90.8	88.8
92.5°	90.6	92.5	98.9	101.9	101.4	92.8	91.3	91.1	89.6	83.9	82.7
95°	84.7	85.9	91.3	95.2	92.8	83.9	82.4	81.2	81.5	79.2	79.5
97.5°	83.2	84.2	88.1	87.4	83.2	75.5	74.6	74.1	73.8	72.6	72.3
100°	80.0	80.0	81.2	79.0	74.1	68.4	66.9	67.2	67.4	66.0	65.5
102.5°	74.6	74.8	75.3	73.3	68.7	62.8	61.3	62.5	63.0	62.5	62.3
105°	70.6	70.4	70.6	68.4	63.2	58.1	56.4	57.6	58.8	59.1	58.6
107.5°	64.7	64.5	64.5	62.3	58.3	54.1	52.7	51.9	51.9	51.9	51.9
110°	56.1	56.4	56.4	55.4	53.4	50.9	49.0	47.5	48.0	47.7	48.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	52.2	52.2	51.7	50.9	49.0	46.5	44.3	43.3	42.8	42.6	42.8
115°	48.0	48.2	46.8	46.3	44.3	42.8	40.6	39.9	39.9	40.6	41.1
117.5°	44.3	44.3	43.3	42.1	40.4	39.1	38.1	37.7	37.7	38.6	38.6
120°	40.1	40.1	39.1	37.7	36.9	35.2	35.4	35.2	35.9	37.2	37.4
122.5°	35.4	35.4	34.5	33.2	33.7	32.5	32.0	31.0	32.5	34.0	34.2
125°	31.5	31.3	30.3	28.8	30.8	30.8	29.5	26.3	28.3	29.5	29.8
127.5°	28.8	28.5	27.3	25.8	28.3	29.8	27.1	23.9	24.9	26.1	26.6
130°	27.3	27.1	25.8	24.1	24.9	28.3	24.4	22.9	24.1	25.3	25.3
132.5°	26.3	26.1	25.1	23.4	22.1	25.8	21.9	22.4	24.1	25.3	25.3
135°	24.4	24.4	23.1	20.7	17.7	18.9	17.7	20.2	22.1	23.1	23.4
137.5°	20.9	20.9	19.9	17.7	14.3	13.5	14.0	17.2	19.4	20.4	20.4
140°	16.5	16.2	15.3	13.3	9.4	6.4	9.1	13.0	15.3	16.2	16.2
142.5°	11.6	11.3	10.1	8.1	4.9	2.2	4.9	7.9	10.1	11.1	11.3
145°	7.4	7.4	6.4	4.9	2.5	0.7	2.0	4.7	6.2	7.1	7.1
147.5°	4.7	4.7	3.9	2.7	0.7	0.5	0.7	2.2	3.7	4.4	4.7
150°	2.7	2.7	2.0	1.0	0.5	0.2	0.5	0.7	1.5	2.2	2.2
152.5°	1.0	0.7	0.5	0.5	0.2	0.2	0.2	0.5	0.5	0.7	0.7
155°	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
157.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
162.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	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)