

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: P240103

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-FP**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-50-D-U-5WQ-FP
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5111.7 lumens
Efficiency: N/A
Efficacy: 94.7 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: B2 - U4 - G3

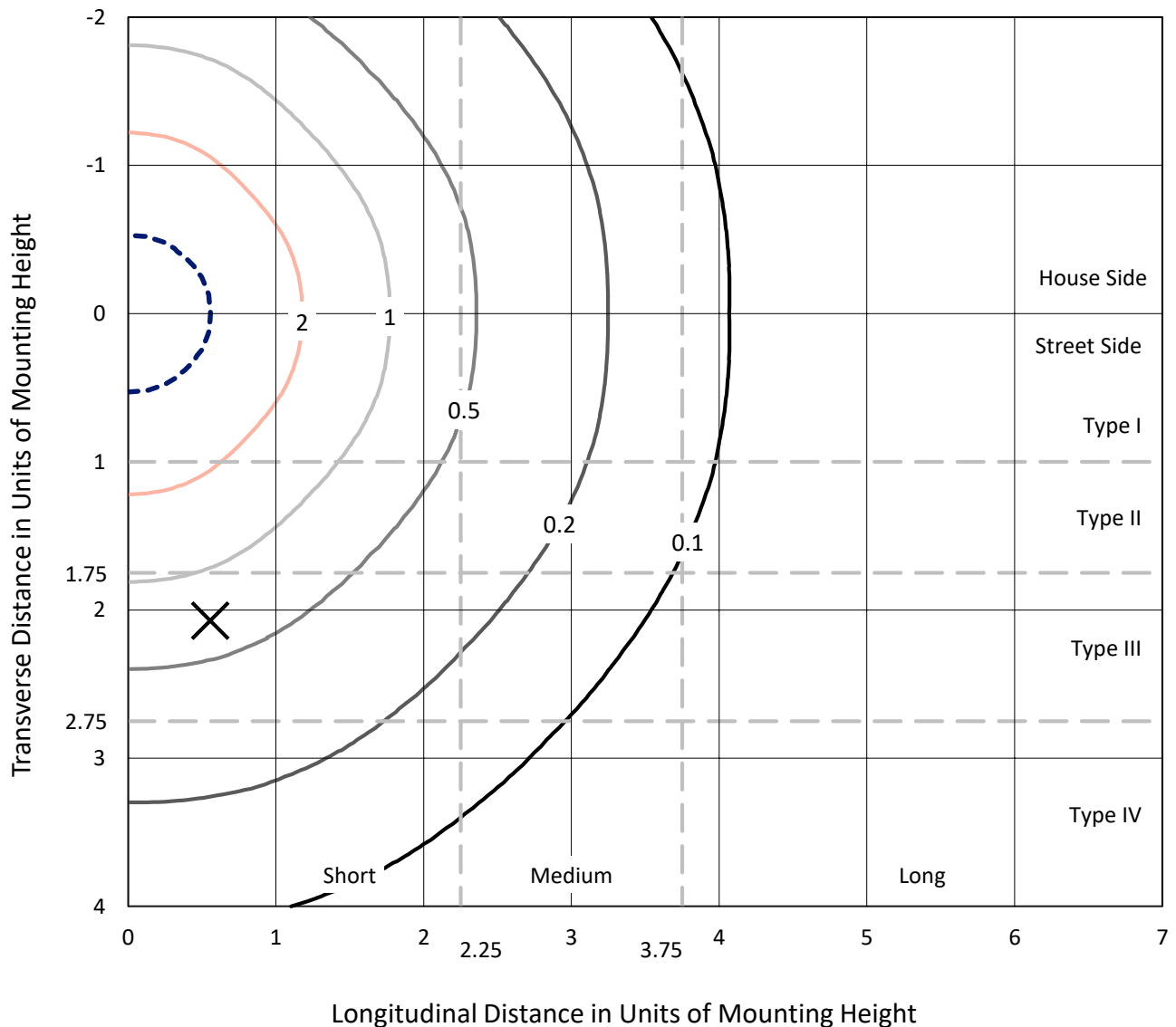
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

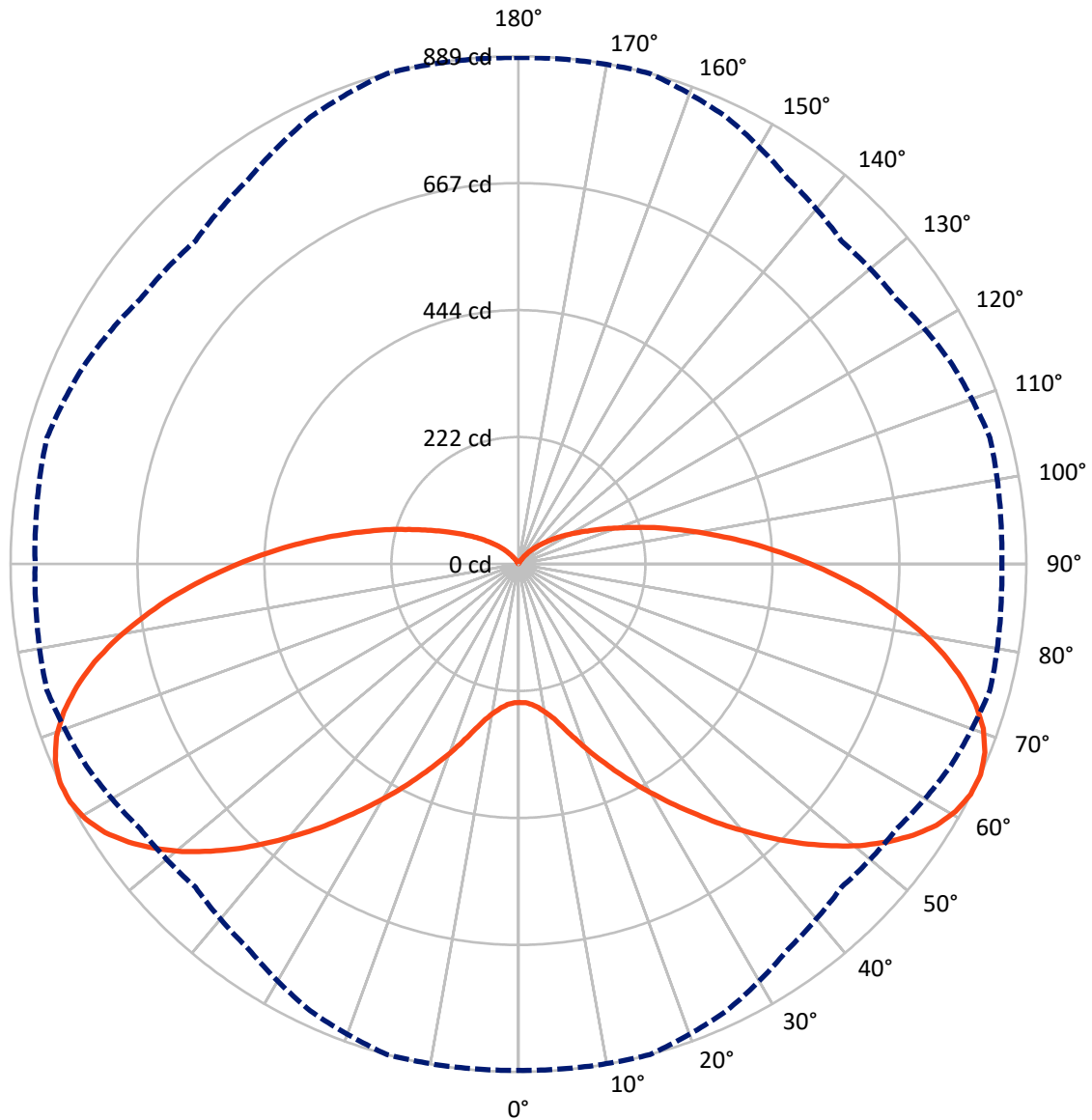
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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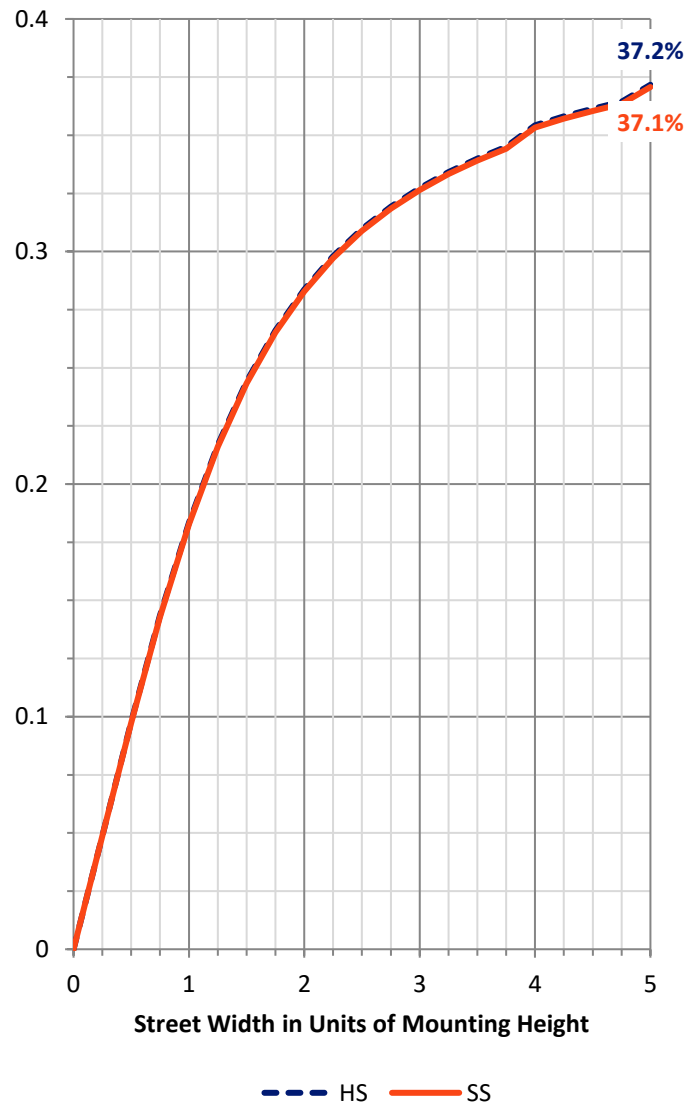
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.8	476.0	2555.8
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2079.8	476.0	2555.8
	% Fixture	40.7	9.3	50.0
Total	Lumens	4159.7	952.0	5111.7
	% Fixture	81.4	18.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	0.5
10°-20°	85.5	1.7
20°-30°	187.0	3.7
30°-40°	336.9	6.6
40°-50°	526.9	10.3
50°-60°	717.7	14.0
60°-70°	832.9	16.3
70°-80°	804.7	15.7
80°-90°	644.0	12.6
90°-100°	438.7	8.6
100°-110°	264.7	5.2
110°-120°	144.4	2.8
120°-130°	70.0	1.4
130°-140°	27.3	0.5
140°-150°	6.5	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4159.7	81.4
0°-180°	5111.7	100.0



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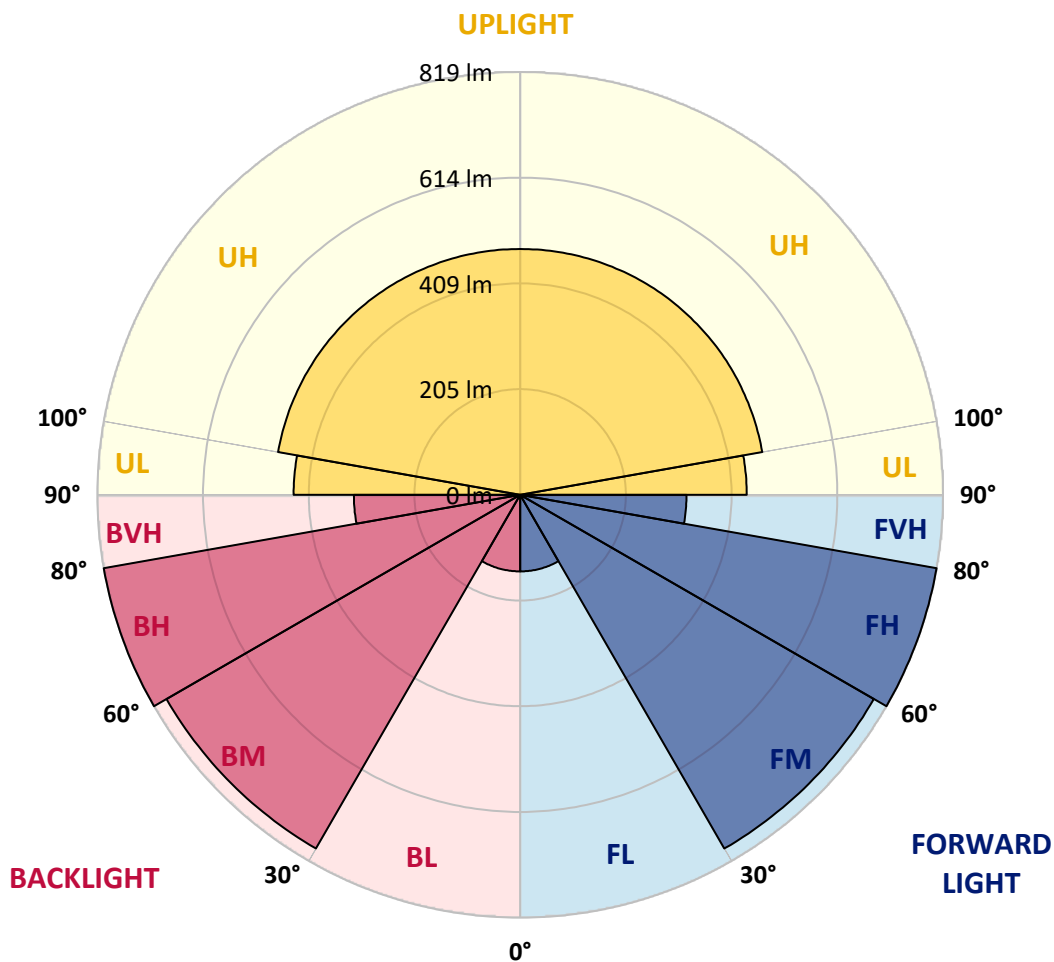
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.3	2.9			
FM	(30°-60°)	790.8	15.5			
FH	(60°-80°)	818.8	16.0			G1/1800
FVH	(80°-90°)	322.0	6.3			G3/500
BL	(0°-30°)	148.3	2.9	B1/500		
BM	(30°-60°)	790.8	15.5	B1/1000		
BH	(60°-80°)	818.8	16.0	B2/1000		G1/1800
BVH	(80°-90°)	322.0	6.3			G3/500
UL	(90°-100°)	438.7	8.6		U3/500	
UH	(100°-180°)	476.0	9.3		U3/500	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4	242.4
2.5°	243.7	243.7	243.1	243.1	243.1	243.1	243.1	243.7	243.1	243.7	243.7
5°	246.9	247.6	246.9	246.9	247.6	246.9	246.9	247.6	246.9	246.9	246.9
7.5°	254.6	254.6	254.0	254.0	254.0	253.4	253.4	254.0	253.4	253.4	253.4
10°	264.8	264.8	264.2	264.2	263.6	263.0	263.0	263.0	263.6	263.6	263.6
12.5°	278.3	279.0	277.7	277.0	276.4	275.8	275.8	275.8	275.8	276.4	275.8
15°	298.9	298.9	297.6	295.0	293.1	292.5	291.1	292.5	293.8	294.4	295.6
17.5°	323.9	322.6	321.3	318.8	314.9	311.1	313.0	314.9	316.8	317.4	317.4
20°	349.5	349.5	347.6	343.8	340.5	337.4	338.0	339.3	340.5	341.9	341.2
22.5°	375.8	377.2	374.5	371.9	369.4	368.8	365.6	365.6	366.2	367.5	367.5
25°	407.2	406.0	404.1	401.5	400.9	400.9	396.4	393.8	394.4	395.1	395.1
27.5°	439.4	438.0	435.5	432.9	433.5	432.3	429.0	424.6	422.7	424.6	423.3
30°	471.4	470.8	468.2	466.3	467.6	466.3	462.4	455.3	454.1	454.7	455.3
32.5°	505.3	506.1	502.8	502.2	502.8	499.6	496.4	491.3	486.8	488.7	488.7
35°	543.2	543.2	538.8	539.4	537.5	534.3	530.4	526.5	522.0	524.0	522.7
37.5°	581.8	581.0	577.9	577.3	573.4	566.9	565.1	563.1	558.0	559.2	559.9
40°	622.8	620.8	616.3	615.7	608.0	601.0	599.7	599.7	593.9	597.1	597.7
42.5°	662.6	661.2	657.3	654.2	642.6	634.3	632.4	636.9	633.0	634.9	634.9
45°	702.3	699.1	697.8	692.0	676.6	665.7	666.4	672.2	672.8	672.8	671.5
47.5°	740.1	739.5	736.9	726.0	708.7	696.5	697.8	706.8	710.0	709.3	710.0
50°	777.3	775.4	774.8	760.7	737.5	723.4	726.7	738.2	745.2	743.4	744.0
52.5°	812.6	809.4	808.1	791.5	764.5	748.5	751.7	768.3	776.7	776.0	776.0
55°	840.1	838.9	838.2	817.7	787.0	769.7	774.1	792.7	805.6	803.0	802.3
57.5°	863.3	861.9	862.7	838.9	804.9	785.0	790.7	813.9	828.6	824.8	824.8
60°	879.9	878.6	879.3	854.3	817.7	796.0	803.0	827.4	844.7	840.1	839.5
62.5°	887.6	887.0	888.2	861.9	823.5	801.1	808.7	835.0	853.7	847.8	846.6
65°	886.4	887.0	888.9	862.7	822.9	799.7	808.1	835.0	854.3	847.8	846.0
67.5°	876.1	878.0	880.6	854.9	815.2	792.7	800.5	827.4	846.6	839.5	836.4
70°	856.8	858.8	863.3	838.9	801.1	778.6	785.6	811.9	829.3	820.9	817.1
72.5°	826.7	831.1	836.4	815.2	779.3	758.1	765.2	789.5	805.6	794.6	790.1
75°	788.9	795.2	802.3	784.4	751.1	731.8	738.9	760.7	771.5	761.3	753.0
77.5°	746.5	753.0	761.3	746.5	717.0	700.3	704.8	722.8	732.4	719.6	713.2
80°	695.2	702.3	713.8	704.2	680.5	663.8	668.9	681.8	686.3	672.8	664.4
82.5°	644.6	651.0	661.8	658.1	638.1	624.7	627.3	636.9	638.8	622.8	615.7
85°	590.0	595.9	609.9	609.3	594.5	583.6	585.5	591.4	586.9	569.5	561.8
87.5°	535.5	538.8	554.7	557.3	549.6	542.0	541.3	541.3	534.9	517.6	511.8
90°	482.3	485.5	500.9	509.2	504.7	498.4	497.1	494.5	481.7	465.6	461.8
92.5°	431.0	432.3	449.6	461.1	459.8	455.3	453.5	448.3	433.5	414.9	412.4
95°	382.9	384.2	400.9	413.7	416.9	415.6	411.7	404.7	385.4	366.8	366.2
97.5°	338.6	338.0	354.0	370.1	376.4	376.4	370.7	361.1	342.5	323.9	323.3
100°	298.2	297.0	311.7	330.9	338.0	339.3	334.1	321.3	300.1	285.4	286.0
102.5°	261.7	260.3	273.2	291.8	302.1	304.6	298.9	283.5	263.6	250.1	250.7
105°	229.7	228.3	239.3	257.2	268.7	271.3	264.8	250.1	228.3	218.7	219.9
107.5°	199.5	198.9	206.5	224.4	237.3	241.1	234.8	218.7	198.1	191.1	191.8
110°	175.7	175.1	178.9	195.6	209.7	213.6	205.9	189.2	171.9	167.4	168.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	154.6	152.6	155.2	169.9	182.8	187.3	179.6	162.2	148.8	146.9	147.5
115°	134.7	134.7	134.0	145.6	159.1	162.9	155.2	139.8	128.9	128.3	128.3
117.5°	118.7	117.3	116.7	123.8	136.0	140.5	133.4	119.3	112.2	112.8	113.5
120°	103.2	103.2	101.4	104.5	115.5	118.7	112.8	102.0	97.5	98.8	99.4
122.5°	90.4	89.8	87.9	88.5	96.2	100.0	94.3	85.9	84.7	87.3	87.3
125°	78.3	77.6	75.7	74.4	78.3	81.4	77.6	72.4	73.1	75.7	76.3
127.5°	67.3	66.7	64.1	61.6	63.5	65.5	62.8	60.3	63.5	65.5	66.1
130°	57.7	57.1	54.5	50.6	50.0	51.4	49.4	50.0	53.9	57.1	57.1
132.5°	48.7	48.7	45.5	41.0	38.5	38.5	38.5	41.0	45.5	48.1	48.7
135°	40.4	40.4	37.8	32.7	28.2	27.6	28.2	32.7	37.8	39.8	40.4
137.5°	33.3	32.7	30.2	25.7	19.8	18.6	19.8	25.1	30.2	32.7	32.7
140°	26.3	25.7	23.1	19.2	14.1	11.6	14.1	18.6	23.1	25.7	25.7
142.5°	19.2	19.2	16.7	13.5	9.0	7.1	9.0	13.5	17.3	18.6	19.2
145°	13.5	13.5	11.6	8.4	5.1	3.9	5.1	9.0	11.6	13.5	13.5
147.5°	9.0	9.0	7.7	5.1	3.2	1.9	3.2	5.7	7.7	9.0	9.0
150°	5.1	5.1	4.5	3.2	1.3	0.6	1.3	3.2	4.5	5.1	5.1
152.5°	2.6	2.6	1.9	1.3	0.6	0.6	0.6	1.3	2.6	2.6	3.2
155°	1.3	1.3	1.3	0.6	0.0	0.0	0.0	0.6	1.3	1.3	1.3
157.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)