

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: P240095

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240095
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-AF24-60-D-U-5WQ-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 5617 lumens
Efficiency: N/A
Efficacy: 87.8 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): 64
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

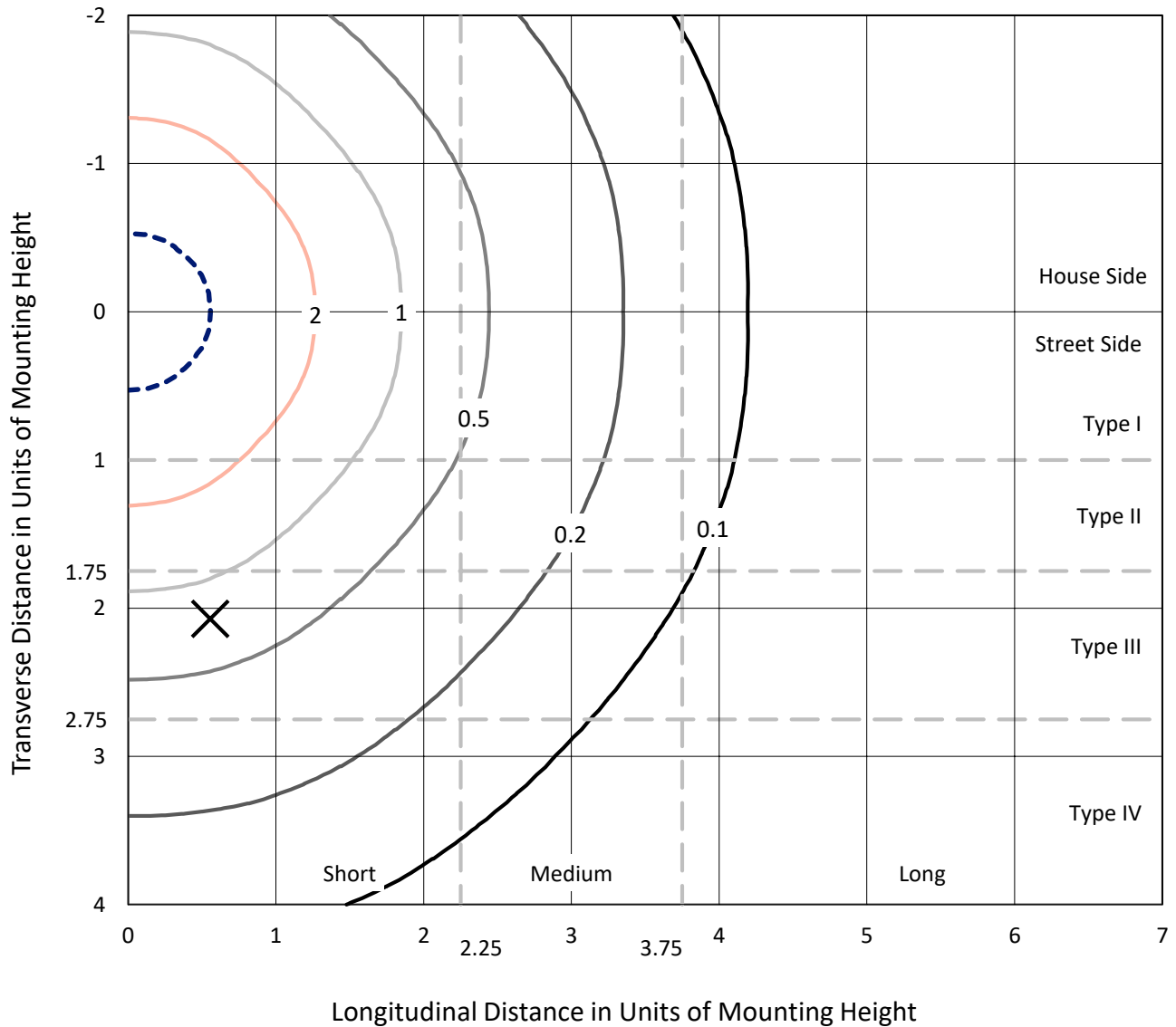


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

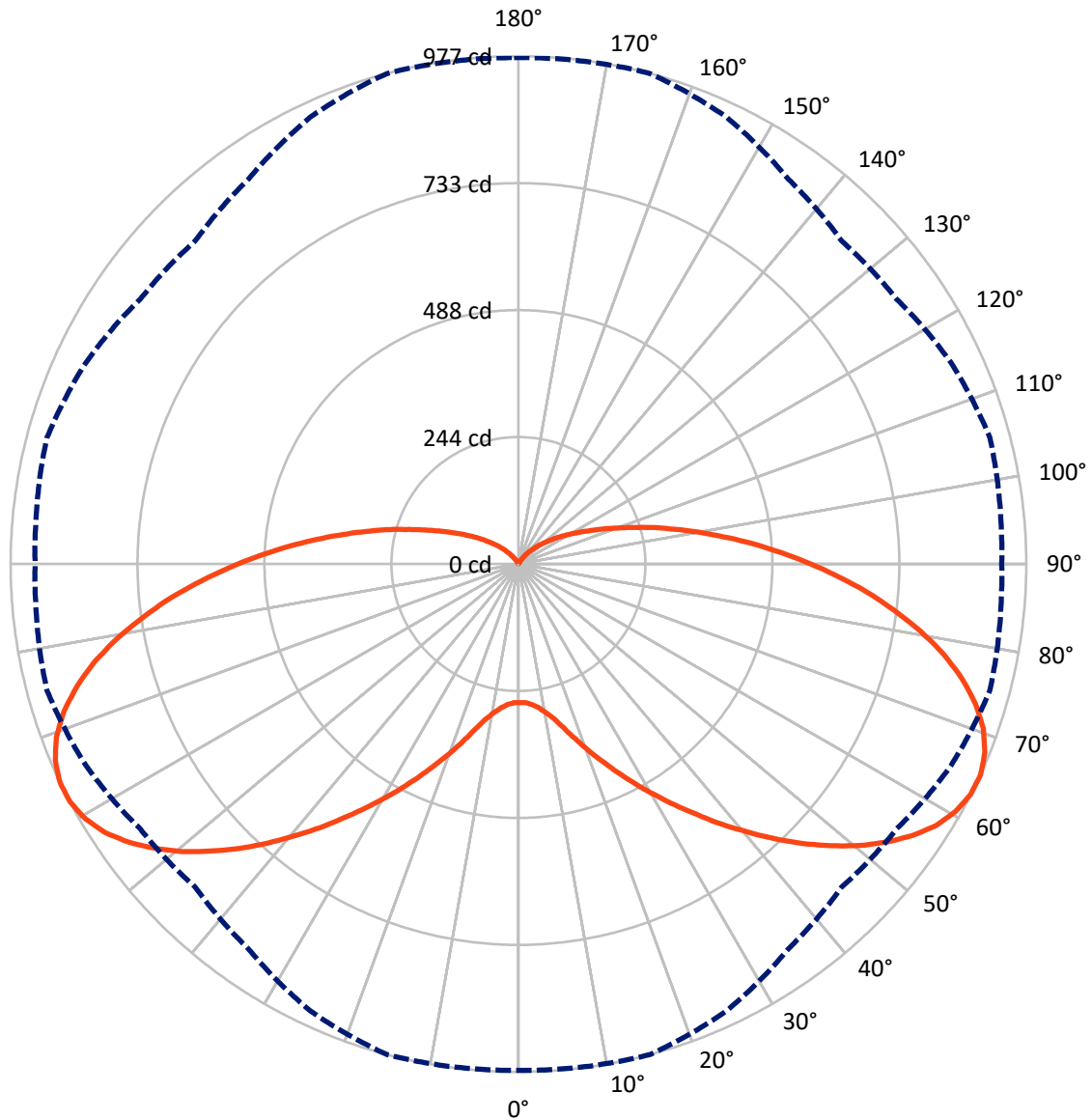


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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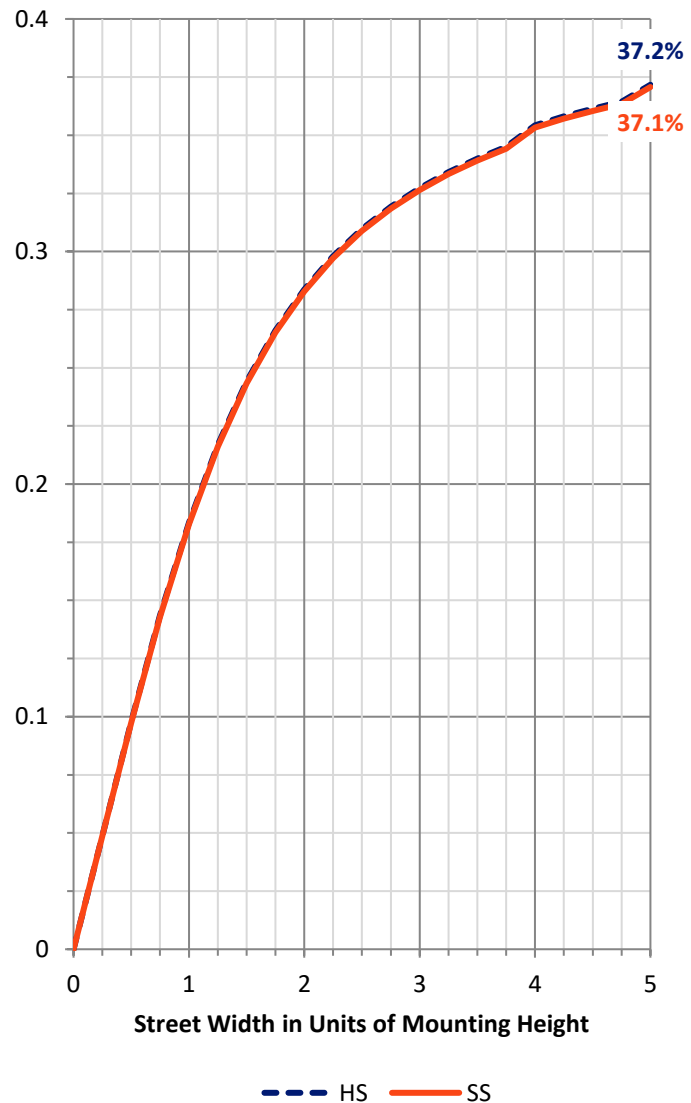
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2285.4	523.1	2808.5
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	2285.4	523.1	2808.5
	% Fixture	40.7	9.3	50.0
Total	Lumens	4570.8	1046.1	5617.0
	% Fixture	81.4	18.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	0.5
10°-20°	94.0	1.7
20°-30°	205.5	3.7
30°-40°	370.2	6.6
40°-50°	579.0	10.3
50°-60°	788.7	14.0
60°-70°	915.2	16.3
70°-80°	884.2	15.7
80°-90°	707.7	12.6
90°-100°	482.1	8.6
100°-110°	290.9	5.2
110°-120°	158.7	2.8
120°-130°	76.9	1.4
130°-140°	30.0	0.5
140°-150°	7.1	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4570.8	81.4
0°-180°	5617.0	100.0



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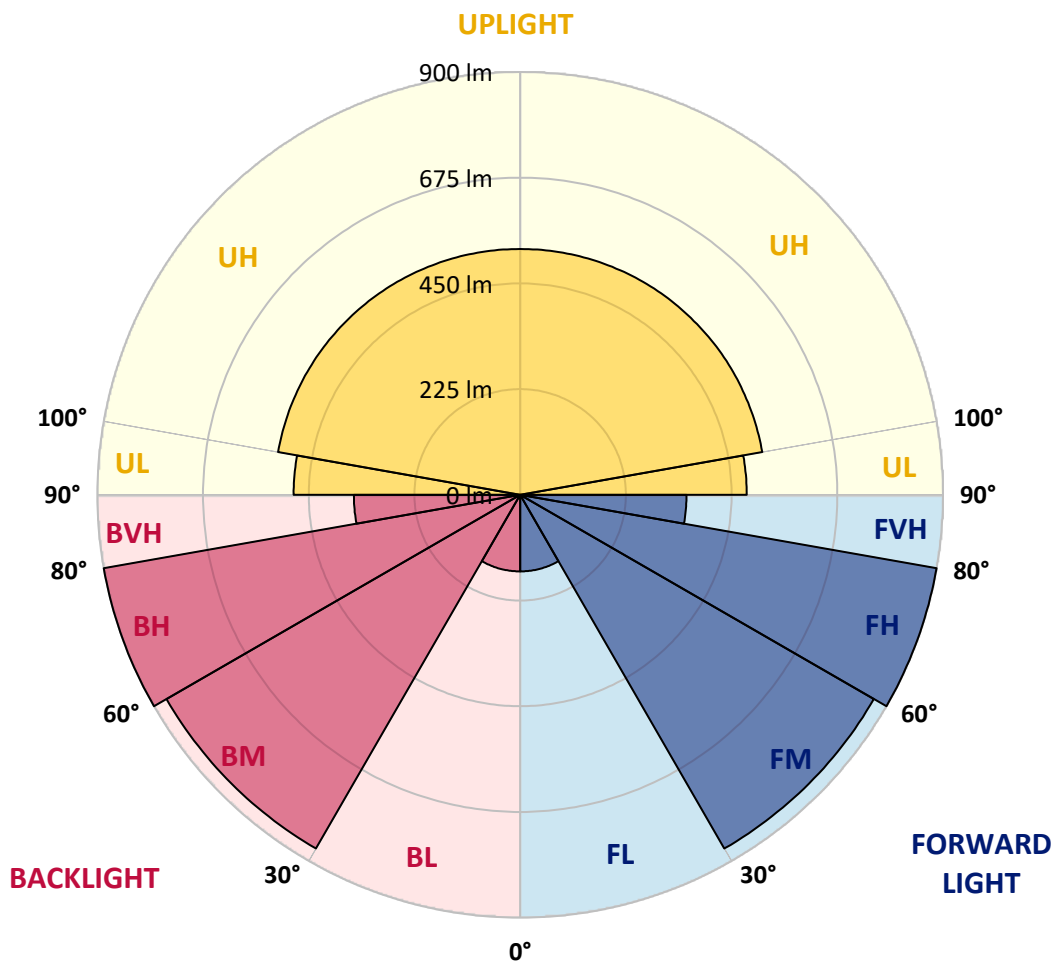
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.0	2.9			
FM (30°-60°)	868.9	15.5			
FH (60°-80°)	899.7	16.0			G1/1800
FVH (80°-90°)	353.8	6.3			G3/500
BL (0°-30°)	163.0	2.9	B1/500		
BM (30°-60°)	868.9	15.5	B1/1000		
BH (60°-80°)	899.7	16.0	B2/1000		G1/1800
BVH (80°-90°)	353.8	6.3			G3/500
UL (90°-100°)	482.1	8.6		U3/500	
UH (100°-180°)	523.1	9.3		U4/1000	

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°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4
2.5°	267.8	267.8	267.1	267.1	267.1	267.1	267.1	267.8	267.1	267.8	267.8
5°	271.3	272.0	271.3	271.3	272.0	271.3	271.3	272.0	271.3	271.3	271.3
7.5°	279.8	279.8	279.0	279.0	279.0	278.4	278.4	279.0	278.4	278.4	278.4
10°	291.0	291.0	290.4	290.4	289.6	289.0	289.0	289.0	289.6	289.6	289.6
12.5°	305.8	306.6	305.2	304.5	303.7	303.0	303.0	303.0	303.0	303.7	303.0
15°	328.5	328.5	327.0	324.2	322.1	321.3	319.9	321.3	322.8	323.5	324.9
17.5°	355.8	354.5	353.1	350.2	346.1	341.8	343.9	346.1	348.1	348.9	348.9
20°	384.0	384.0	382.0	377.7	374.2	370.7	371.4	372.8	374.2	375.7	375.0
22.5°	413.0	414.4	411.6	408.7	405.9	405.3	401.7	401.7	402.4	403.8	403.8
25°	447.5	446.1	444.0	441.2	440.5	440.5	435.5	432.7	433.4	434.1	434.1
27.5°	482.7	481.4	478.5	475.8	476.4	475.1	471.5	466.5	464.5	466.5	465.1
30°	518.0	517.4	514.5	512.3	513.7	512.3	508.2	500.4	499.0	499.7	500.4
32.5°	555.4	556.0	552.6	551.9	552.6	549.0	545.5	539.8	535.0	537.0	537.0
35°	596.9	596.9	591.9	592.7	590.5	587.0	582.8	578.6	573.7	575.8	574.3
37.5°	639.1	638.5	635.1	634.2	630.1	623.0	620.9	618.7	613.2	614.6	615.2
40°	684.3	682.3	677.3	676.6	668.1	660.4	659.0	659.0	652.6	656.1	656.8
42.5°	728.0	726.6	722.4	718.8	706.2	697.0	694.9	699.8	695.6	697.7	697.7
45°	771.7	768.2	766.8	760.5	743.5	731.5	732.2	738.6	739.2	739.2	737.8
47.5°	813.3	812.6	809.7	797.8	778.8	765.4	766.8	776.7	780.2	779.4	780.2
50°	854.2	852.0	851.3	835.9	810.4	795.0	798.4	811.1	818.9	816.8	817.5
52.5°	892.9	889.4	888.0	869.7	840.1	822.5	826.0	844.2	853.5	852.8	852.8
55°	923.2	921.8	921.2	898.5	864.8	845.6	850.7	871.2	885.2	882.4	881.6
57.5°	948.6	947.2	948.0	921.8	884.5	862.6	868.9	894.3	910.5	906.3	906.3
60°	967.0	965.6	966.2	938.7	898.5	874.6	882.4	909.1	928.1	923.2	922.4
62.5°	975.3	974.7	976.1	947.2	904.8	880.2	888.8	917.6	938.0	931.7	930.3
65°	973.9	974.7	976.8	948.0	904.2	878.9	888.0	917.6	938.7	931.7	929.6
67.5°	962.7	964.9	967.6	939.4	895.7	871.2	879.5	909.1	930.3	922.4	919.0
70°	941.6	943.7	948.6	921.8	880.2	855.6	863.3	892.2	911.2	902.1	897.9
72.5°	908.4	913.4	919.0	895.7	856.3	833.0	840.7	867.5	885.2	873.2	868.3
75°	866.9	873.8	881.6	861.9	825.2	804.1	811.9	835.9	847.9	836.6	827.4
77.5°	820.3	827.4	836.6	820.3	787.9	769.6	774.5	794.4	804.8	790.7	783.7
80°	763.9	771.7	784.4	773.8	747.8	729.5	735.1	749.2	754.1	739.2	730.2
82.5°	708.3	715.3	727.3	723.1	701.2	686.4	689.2	699.8	702.0	684.3	676.6
85°	648.4	654.7	670.2	669.5	653.3	641.4	643.4	649.8	644.8	625.8	617.4
87.5°	588.5	591.9	609.6	612.4	603.9	595.6	594.8	594.8	587.9	568.7	562.3
90°	530.0	533.5	550.4	559.6	554.6	547.6	546.2	543.3	529.3	511.7	507.4
92.5°	473.6	475.1	494.1	506.8	505.4	500.4	498.2	492.6	476.4	455.9	453.2
95°	420.7	422.2	440.5	454.5	458.2	456.7	452.5	444.6	423.6	403.1	402.4
97.5°	372.1	371.4	389.1	406.7	413.6	413.6	407.3	396.8	376.3	355.8	355.2
100°	327.7	326.3	342.5	363.7	371.4	372.8	367.2	353.1	329.9	313.6	314.3
102.5°	287.6	286.2	300.3	320.6	331.9	334.8	328.5	311.5	289.6	274.9	275.6
105°	252.3	250.9	262.9	282.7	295.3	298.1	291.0	274.9	250.9	240.4	241.7
107.5°	219.2	218.5	226.9	246.7	260.8	265.0	258.0	240.4	217.8	210.0	210.8
110°	193.1	192.4	196.6	214.9	230.4	234.7	226.2	207.9	188.9	184.0	184.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	169.9	167.7	170.6	186.8	200.8	205.7	197.3	178.3	163.5	161.3	162.1
115°	148.0	148.0	147.3	159.9	174.9	178.9	170.6	153.6	141.7	141.0	141.0
117.5°	130.3	128.9	128.3	136.0	149.3	154.4	146.6	131.1	123.4	124.0	124.8
120°	113.5	113.5	111.3	114.8	126.8	130.3	124.0	112.1	107.1	108.5	109.3
122.5°	99.3	98.7	96.5	97.2	105.8	110.0	103.6	94.4	93.0	95.8	95.8
125°	86.0	85.2	83.1	81.7	86.0	89.5	85.2	79.6	80.3	83.1	83.9
127.5°	74.0	73.3	70.5	67.6	69.8	71.9	69.1	66.2	69.8	71.9	72.5
130°	63.5	62.8	59.9	55.7	54.9	56.4	54.3	54.9	59.2	62.8	62.8
132.5°	53.5	53.5	50.0	45.2	42.3	42.3	42.3	45.2	50.0	52.9	53.5
135°	44.4	44.4	41.6	35.9	31.0	30.3	31.0	35.9	41.6	43.7	44.4
137.5°	36.6	35.9	33.1	28.2	21.9	20.4	21.9	27.6	33.1	35.9	35.9
140°	28.9	28.2	25.3	21.2	15.6	12.7	15.6	20.4	25.3	28.2	28.2
142.5°	21.2	21.2	18.3	14.7	9.9	7.7	9.9	14.7	19.0	20.4	21.2
145°	14.7	14.7	12.7	9.2	5.7	4.3	5.7	9.9	12.7	14.7	14.7
147.5°	9.9	9.9	8.4	5.7	3.5	2.0	3.5	6.3	8.4	9.9	9.9
150°	5.7	5.7	4.9	3.5	1.4	0.6	1.4	3.5	4.9	5.7	5.7
152.5°	2.8	2.8	2.0	1.4	0.6	0.6	0.6	1.4	2.8	2.8	3.5
155°	1.4	1.4	1.4	0.6	0.0	0.0	0.0	0.6	1.4	1.4	1.4
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)