

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: P266361

Luminaire Tested: **UTLD-AF24-50-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266361
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-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 4341 lumens
Efficiency: N/A
Efficacy: 80.4 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 - U3 - 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

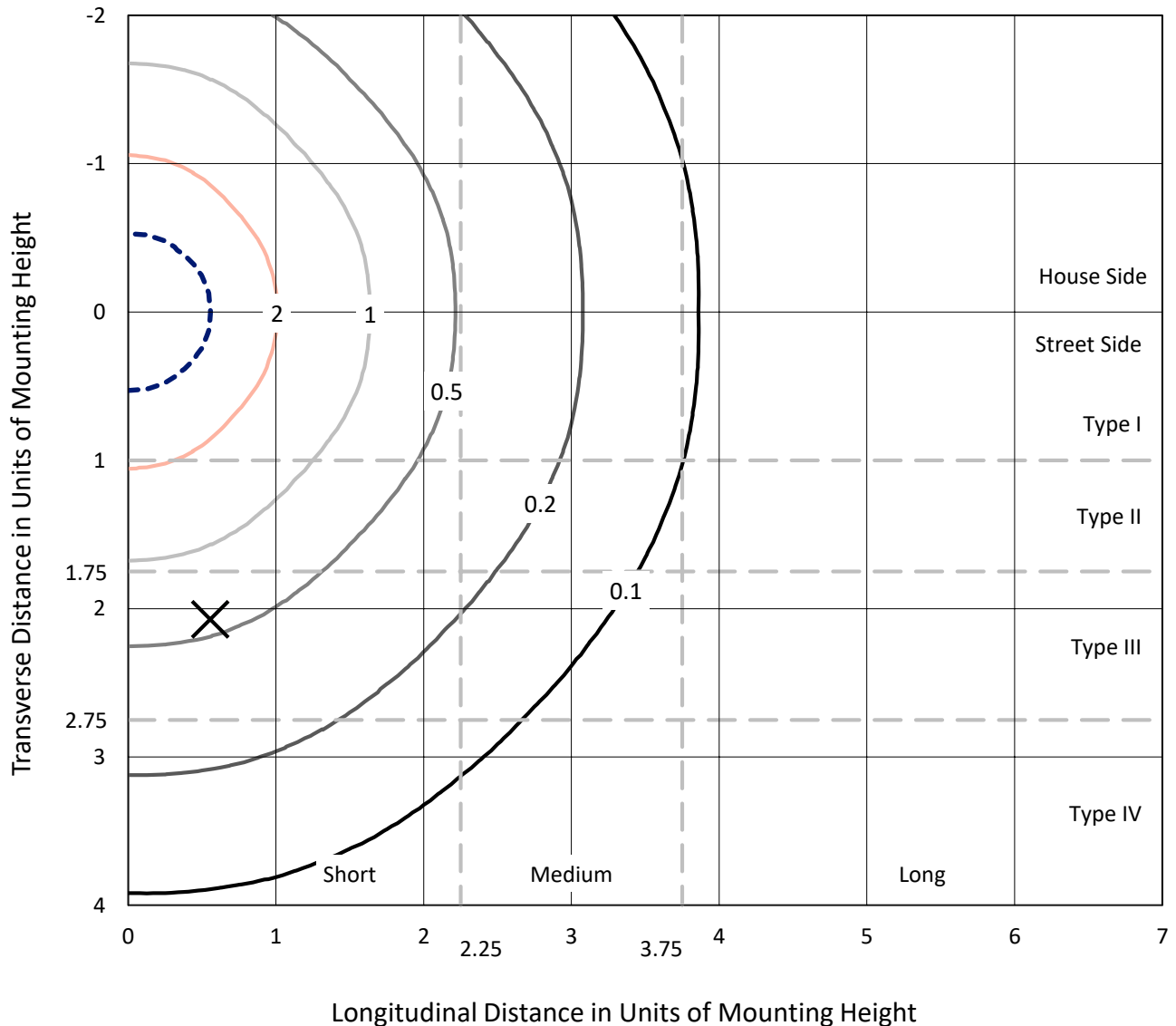


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

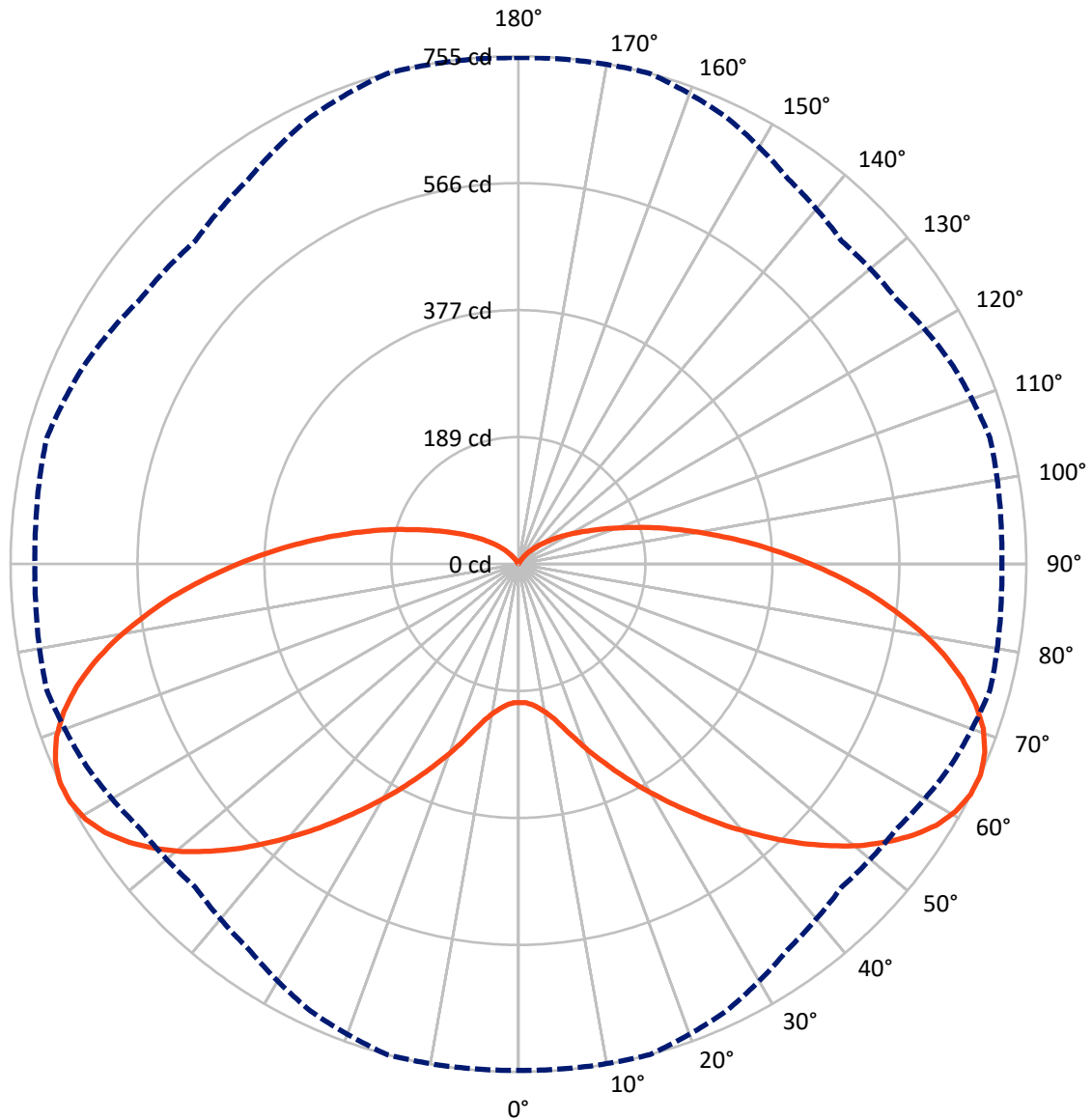


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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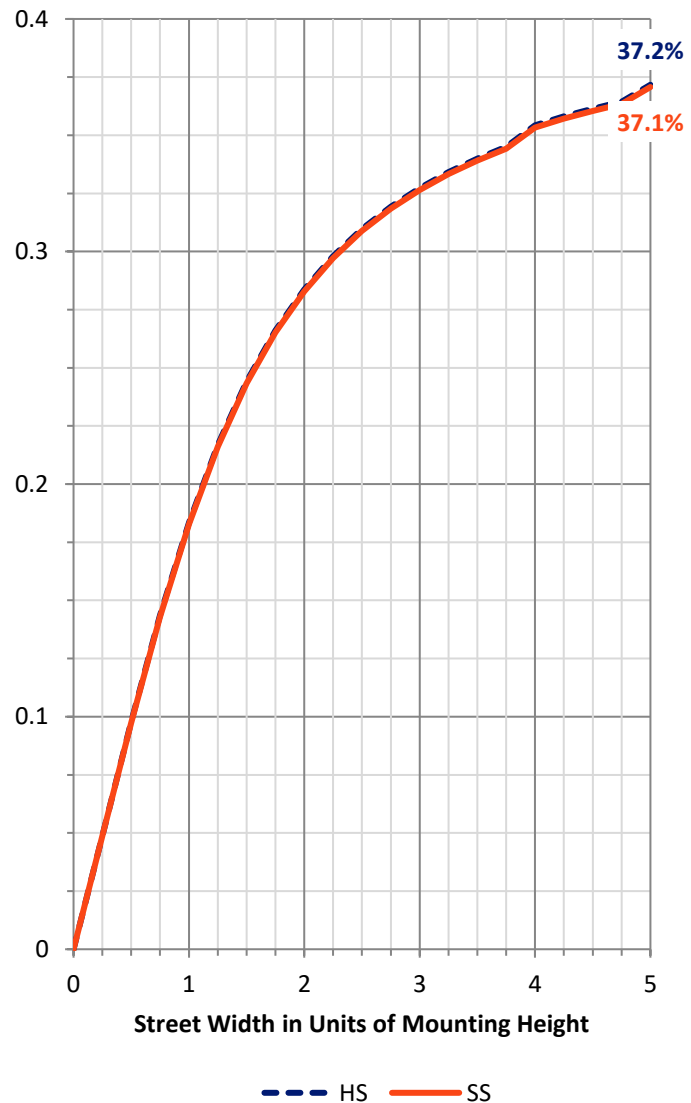
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.3	404.2	2170.5
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1766.3	404.2	2170.5
	% Fixture	40.7	9.3	50.0
Total	Lumens	3532.5	808.5	4341.0
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	0.5
10°-20°	72.6	1.7
20°-30°	158.8	3.7
30°-40°	286.1	6.6
40°-50°	447.5	10.3
50°-60°	609.5	14.0
60°-70°	707.3	16.3
70°-80°	683.3	15.7
80°-90°	546.9	12.6
90°-100°	372.5	8.6
100°-110°	224.8	5.2
110°-120°	122.6	2.8
120°-130°	59.4	1.4
130°-140°	23.1	0.5
140°-150°	5.5	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3532.5	81.4
0°-180°	4341.0	100.0

Coefficient of Utilization



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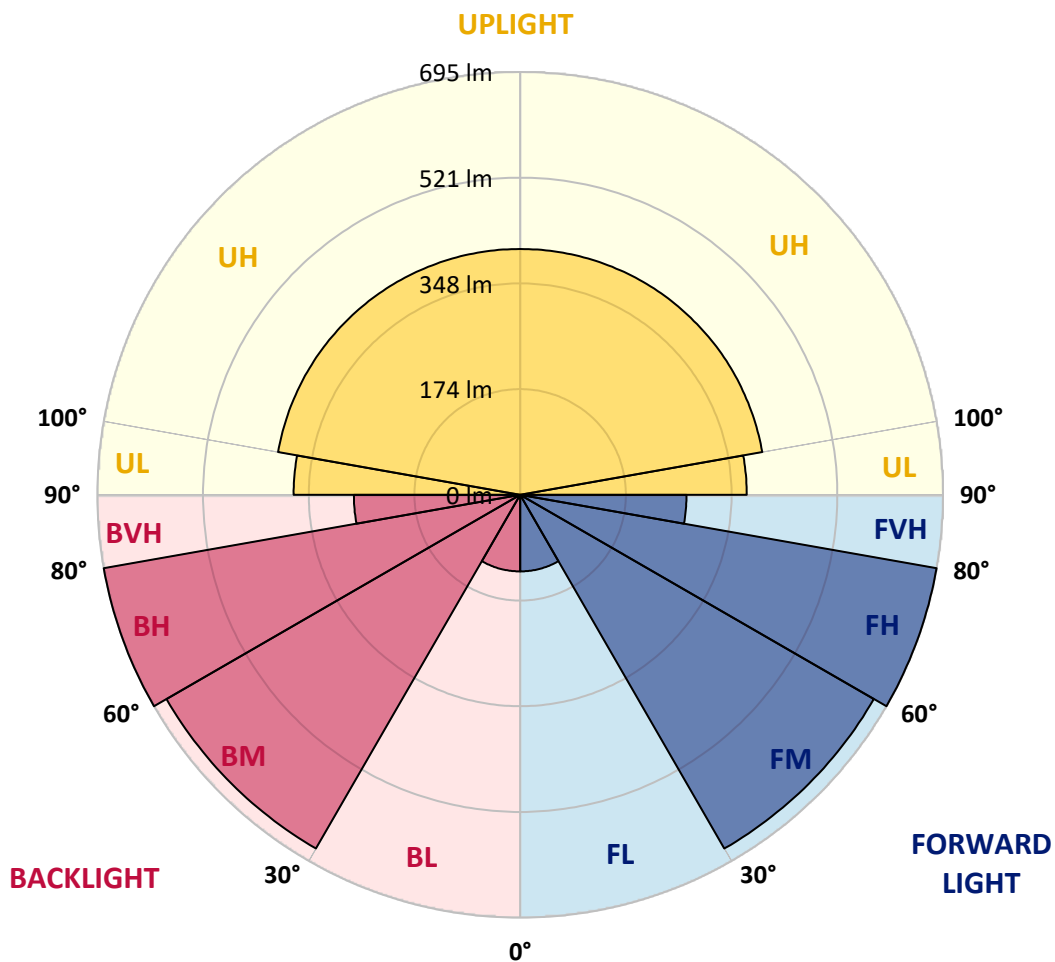
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.9	2.9			
FM (30°-60°)	671.5	15.5			
FH (60°-80°)	695.3	16.0			G1/1800
FVH (80°-90°)	273.5	6.3			G3/500
BL (0°-30°)	125.9	2.9	B1/500		
BM (30°-60°)	671.5	15.5	B1/1000		
BH (60°-80°)	695.3	16.0	B2/1000		G1/1800
BVH (80°-90°)	273.5	6.3			G3/500
UL (90°-100°)	372.5	8.6		U3/500	
UH (100°-180°)	404.2	9.3		U3/500	

BUG Rating: B2-U3-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	205.9	205.9	205.9	205.9	205.9	205.9	205.9	205.9	205.9	205.9	205.9
2.5°	207.0	207.0	206.4	206.4	206.4	206.4	206.4	207.0	206.4	207.0	207.0
5°	209.8	210.3	209.8	209.8	210.3	209.8	209.8	210.3	209.8	209.8	209.8
7.5°	216.2	216.2	215.8	215.8	215.8	215.1	215.1	215.8	215.1	215.1	215.1
10°	224.9	224.9	224.3	224.3	223.9	223.3	223.3	223.3	223.9	223.9	223.9
12.5°	236.3	237.0	235.9	235.3	234.7	234.2	234.2	234.2	234.2	234.7	234.2
15°	253.9	253.9	252.8	250.5	248.9	248.4	247.3	248.4	249.5	250.0	251.0
17.5°	275.1	274.0	272.8	270.7	267.4	264.1	265.8	267.4	269.0	269.6	269.6
20°	296.8	296.8	295.3	291.9	289.3	286.5	287.1	288.1	289.3	290.3	289.8
22.5°	319.2	320.2	318.1	315.9	313.7	313.1	310.5	310.5	311.1	312.2	312.2
25°	345.8	344.8	343.2	340.9	340.4	340.4	336.7	334.3	335.0	335.4	335.4
27.5°	373.1	372.0	369.8	367.6	368.1	367.0	364.4	360.6	359.0	360.6	359.5
30°	400.4	399.7	397.6	396.0	397.1	396.0	392.6	386.7	385.6	386.2	386.7
32.5°	429.2	429.7	427.1	426.4	427.1	424.3	421.6	417.3	413.4	415.0	415.0
35°	461.3	461.3	457.5	458.0	456.3	453.7	450.4	447.1	443.4	445.0	443.9
37.5°	494.0	493.4	490.7	490.3	486.9	481.5	479.9	478.2	473.9	474.9	475.6
40°	528.9	527.2	523.4	522.9	516.3	510.3	509.2	509.2	504.4	507.2	507.6
42.5°	562.7	561.5	558.2	555.5	545.8	538.7	537.0	540.9	537.5	539.3	539.3
45°	596.5	593.7	592.6	587.8	574.6	565.4	565.9	570.9	571.3	571.3	570.2
47.5°	628.5	628.0	625.8	616.5	601.9	591.5	592.6	600.2	602.9	602.5	602.9
50°	660.2	658.5	658.0	646.1	626.4	614.4	617.1	626.8	632.9	631.2	631.8
52.5°	690.1	687.4	686.2	672.1	649.3	635.6	638.3	652.4	659.5	659.0	659.0
55°	713.6	712.4	711.8	694.5	668.2	653.5	657.4	673.2	684.1	682.0	681.4
57.5°	733.1	731.9	732.6	712.4	683.6	666.7	671.6	691.2	703.7	700.5	700.5
60°	747.3	746.2	746.8	725.6	694.5	676.0	682.0	702.7	717.3	713.6	713.0
62.5°	753.8	753.3	754.3	731.9	699.4	680.2	686.8	709.1	724.9	720.0	719.0
65°	752.7	753.3	754.9	732.6	698.8	679.2	686.2	709.1	725.6	720.0	718.5
67.5°	744.1	745.7	747.7	726.0	692.2	673.2	679.7	702.7	719.0	713.0	710.3
70°	727.6	729.3	733.1	712.4	680.2	661.2	667.3	689.5	704.2	697.2	693.9
72.5°	702.0	705.9	710.3	692.2	661.8	643.7	649.8	670.5	684.1	674.8	671.0
75°	670.0	675.3	681.4	666.2	637.7	621.4	627.5	646.1	655.3	646.5	639.5
77.5°	634.1	639.5	646.5	634.1	609.0	594.8	598.6	613.8	621.9	611.1	605.6
80°	590.5	596.5	606.3	598.0	577.9	563.7	568.1	579.0	582.8	571.3	564.2
82.5°	547.3	552.8	562.1	558.8	541.9	530.4	532.6	540.9	542.4	528.9	522.9
85°	501.2	505.9	518.1	517.5	504.8	495.7	497.3	502.2	498.4	483.6	477.1
87.5°	454.8	457.5	471.2	473.2	466.8	460.2	459.8	459.8	454.3	439.5	434.6
90°	409.5	412.3	425.3	432.4	428.6	423.2	422.2	420.0	409.1	395.4	392.2
92.5°	366.0	367.0	381.8	391.7	390.6	386.7	385.1	380.7	368.1	352.4	350.2
95°	325.1	326.3	340.4	351.2	354.0	352.9	349.7	343.7	327.3	311.5	311.1
97.5°	287.5	287.1	300.7	314.2	319.7	319.7	314.9	306.6	290.8	275.1	274.5
100°	253.3	252.2	264.7	281.1	287.1	288.1	283.8	272.8	254.8	242.5	242.9
102.5°	222.2	221.2	232.0	247.8	256.6	258.7	253.9	240.7	223.9	212.4	213.0
105°	195.0	193.9	203.1	218.4	228.2	230.3	224.9	212.4	193.9	185.7	186.8
107.5°	169.4	168.8	175.3	190.6	201.5	204.9	199.3	185.7	168.3	162.4	162.9
110°	149.3	148.7	152.0	166.1	178.1	181.4	174.8	160.6	146.0	142.1	142.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	131.2	129.6	131.8	144.4	155.2	159.0	152.5	137.8	126.3	124.8	125.3
115°	114.4	114.4	113.8	123.6	135.0	138.3	131.8	118.8	109.5	109.0	109.0
117.5°	100.8	99.7	99.2	105.1	115.4	119.3	113.2	101.2	95.3	95.8	96.4
120°	87.7	87.7	86.1	88.8	98.1	100.8	95.8	86.5	82.9	83.9	84.4
122.5°	76.7	76.3	74.6	75.2	81.7	85.0	80.0	73.0	72.0	74.1	74.1
125°	66.5	65.8	64.3	63.2	66.5	69.2	65.8	61.5	62.2	64.3	64.8
127.5°	57.2	56.7	54.4	52.3	53.9	55.5	53.4	51.3	53.9	55.5	56.1
130°	49.0	48.5	46.4	42.9	42.5	43.6	42.0	42.5	45.8	48.5	48.5
132.5°	41.4	41.4	38.6	34.9	32.7	32.7	32.7	34.9	38.6	40.9	41.4
135°	34.3	34.3	32.1	27.8	24.0	23.4	24.0	27.8	32.1	33.7	34.3
137.5°	28.3	27.8	25.6	21.7	16.9	15.8	16.9	21.2	25.6	27.8	27.8
140°	22.4	21.7	19.7	16.3	11.9	9.8	11.9	15.8	19.7	21.7	21.7
142.5°	16.3	16.3	14.2	11.5	7.6	6.0	7.6	11.5	14.7	15.8	16.3
145°	11.5	11.5	9.8	7.0	4.3	3.2	4.3	7.6	9.8	11.5	11.5
147.5°	7.6	7.6	6.6	4.3	2.8	1.6	2.8	4.9	6.6	7.6	7.6
150°	4.3	4.3	3.9	2.8	1.1	0.5	1.1	2.8	3.9	4.3	4.3
152.5°	2.2	2.2	1.6	1.1	0.5	0.5	0.5	1.1	2.2	2.2	2.8
155°	1.1	1.1	1.1	0.5	0.0	0.0	0.0	0.5	1.1	1.1	1.1
157.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)