

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: P239822

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-A-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239822
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-AF24-30-D-U-5WQ-A-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 375mA 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: 2586 lumens
Efficiency: N/A
Efficacy: 83.4 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: B1 - U3 - G1

Input Watts (W): 31
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

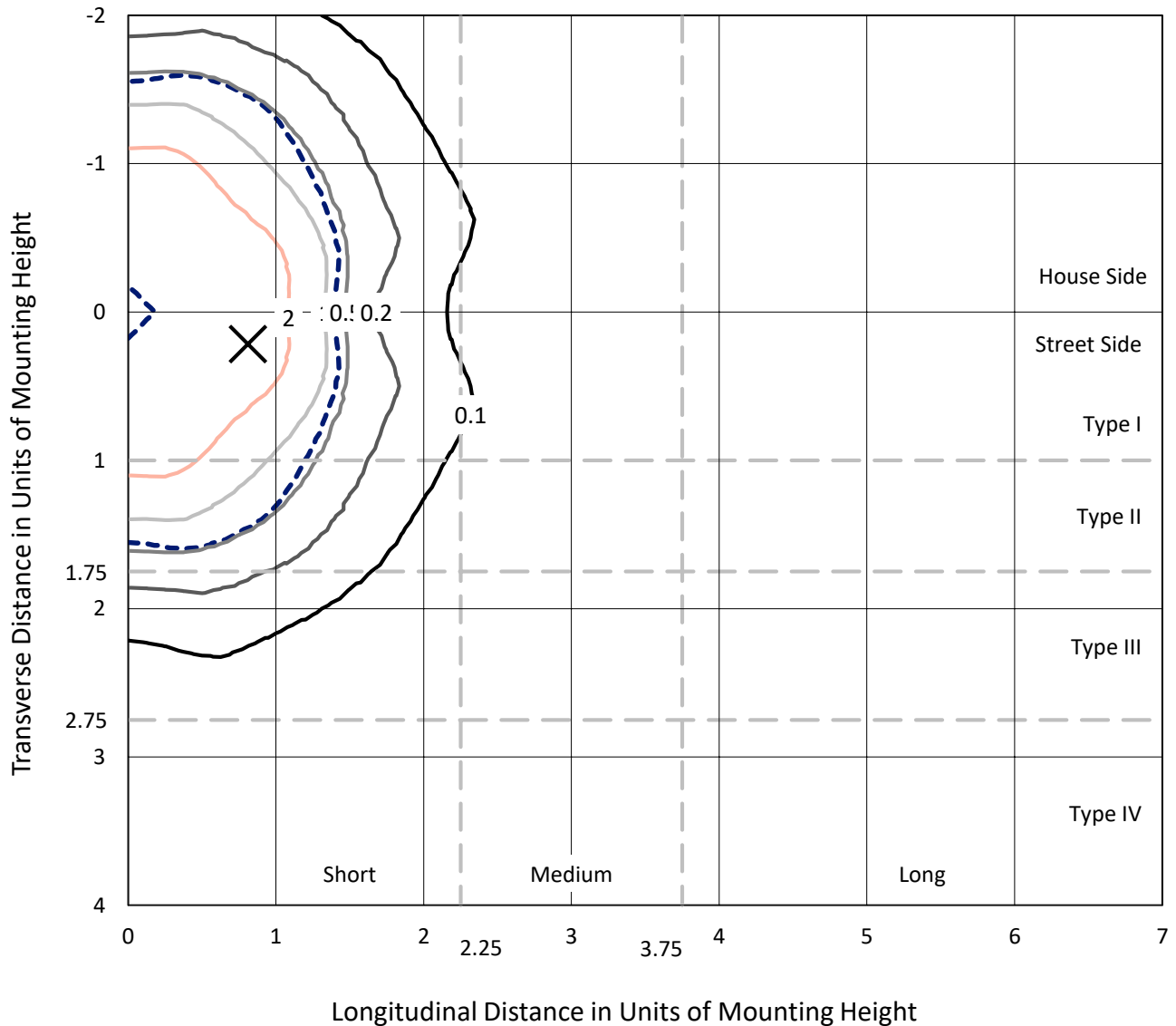


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Iso-Footcandle Lines of Horizontal Illumination

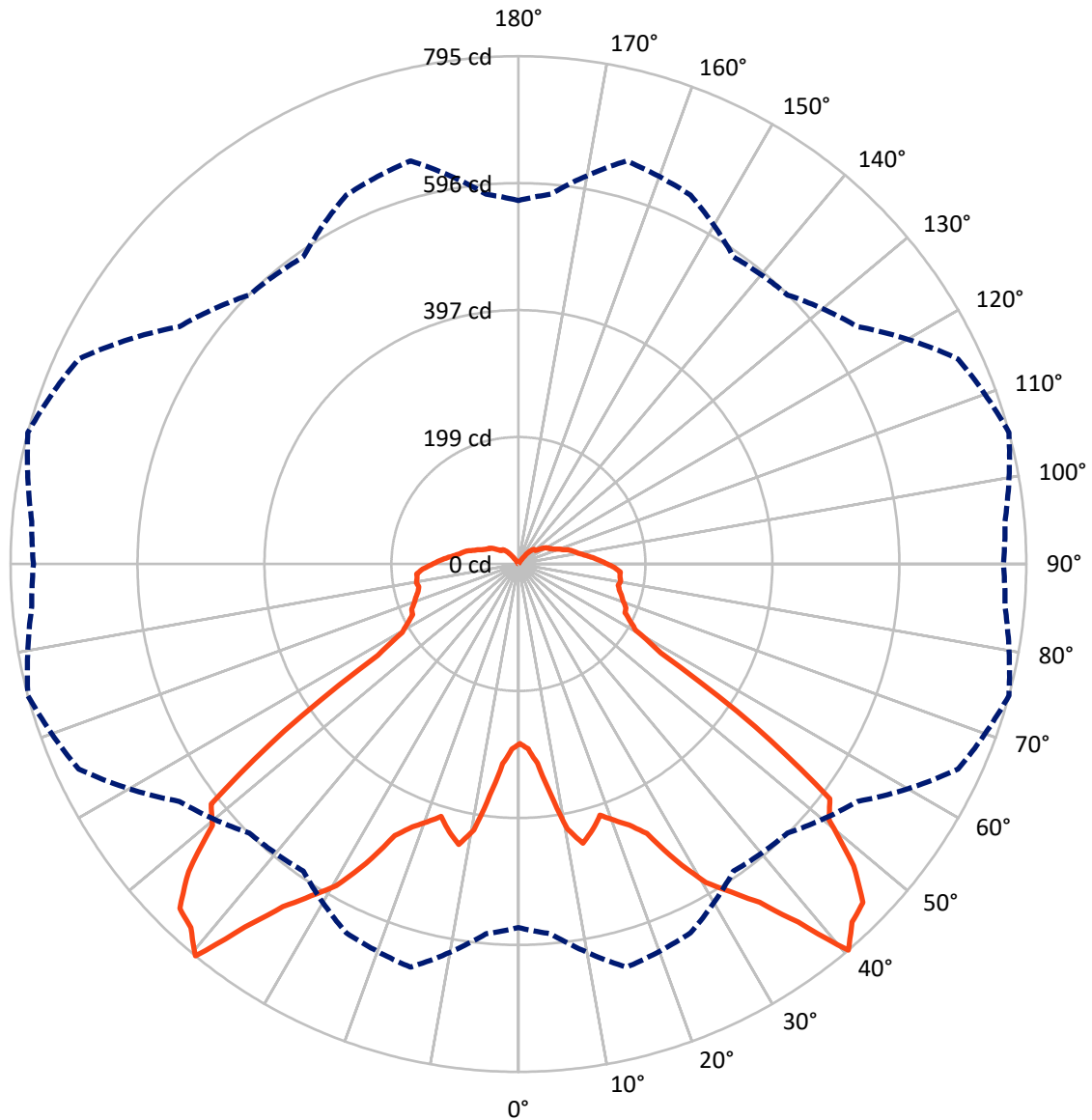
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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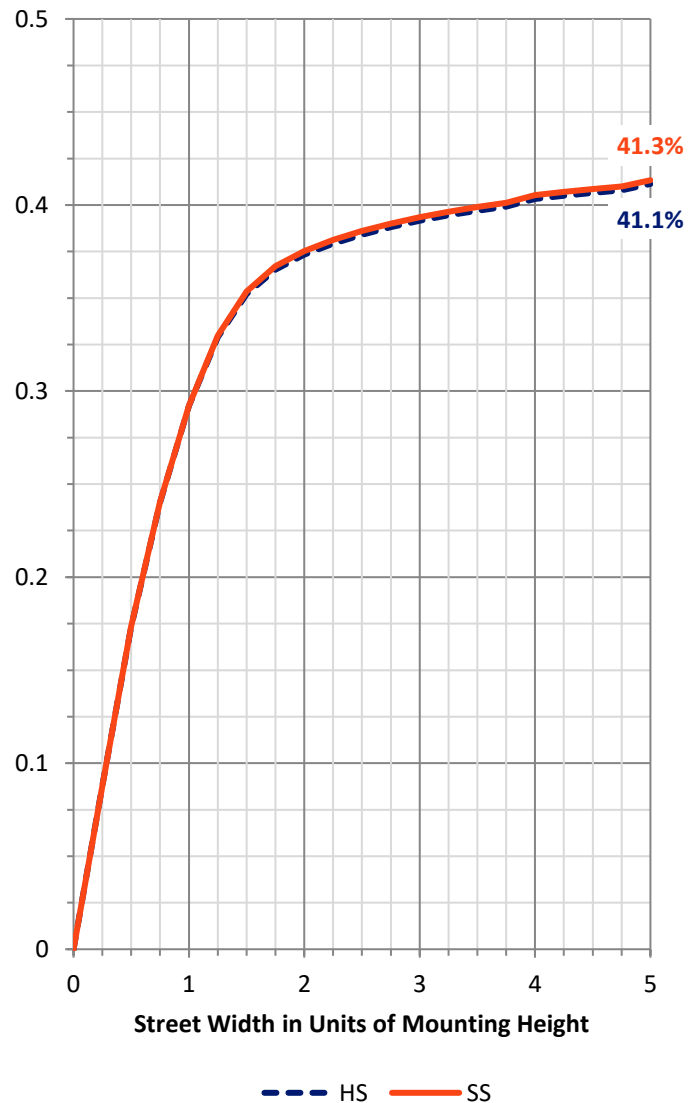
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.8	175.2	1293.0
	% Fixture	43.2	6.8	50.0
Street Side	Lumens	1117.8	175.2	1293.0
	% Fixture	43.2	6.8	50.0
Total	Lumens	2235.6	350.4	2586.0
	% Fixture	86.5	13.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	1.3
10°-20°	134.7	5.2
20°-30°	240.6	9.3
30°-40°	380.9	14.7
40°-50°	511.1	19.8
50°-60°	406.8	15.7
60°-70°	186.7	7.2
70°-80°	170.2	6.6
80°-90°	171.5	6.6
90°-100°	131.9	5.1
100°-110°	92.1	3.6
110°-120°	60.8	2.4
120°-130°	38.0	1.5
130°-140°	22.2	0.9
140°-150°	5.0	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2235.6	86.5
0°-180°	2586.0	100.0



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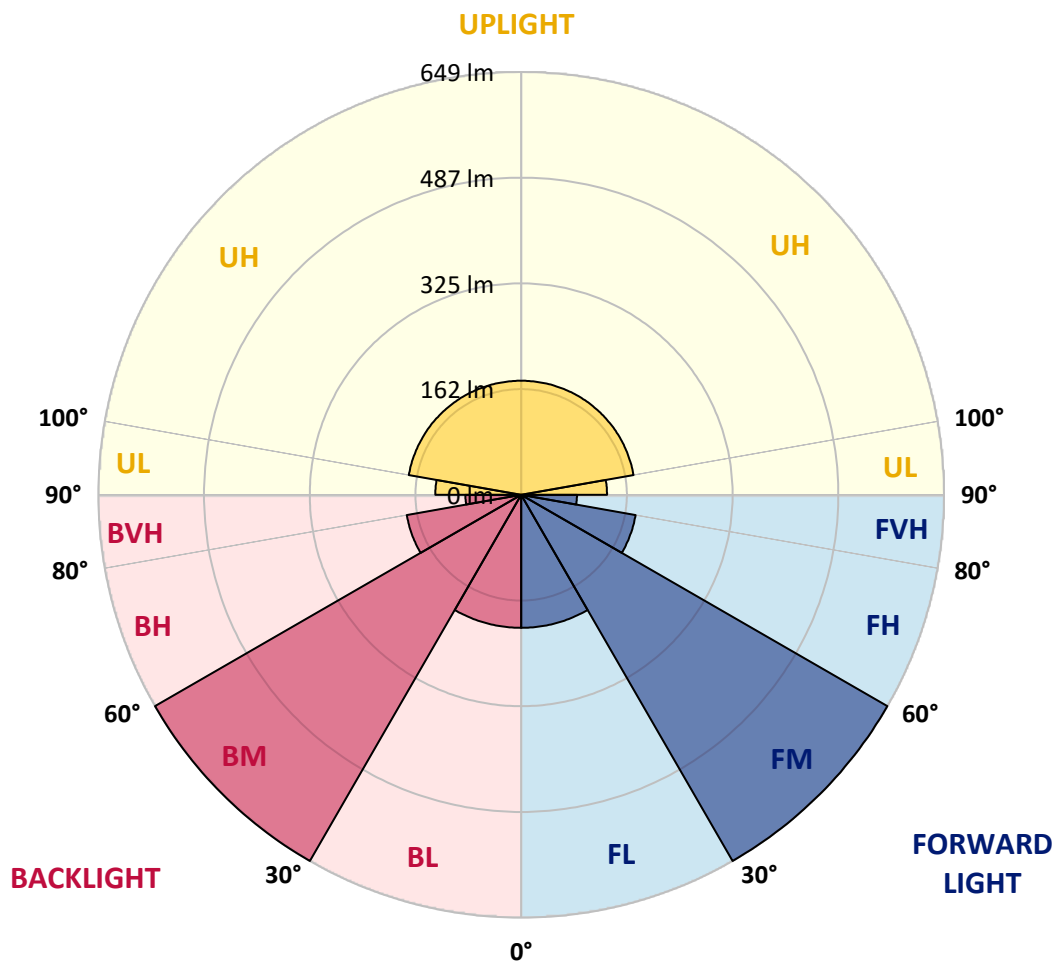
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.2	7.9			
FM	(30°-60°)	649.4	25.1			
FH	(60°-80°)	178.4	6.9			G0/660
FVH	(80°-90°)	85.7	3.3			G1/100
BL	(0°-30°)	204.2	7.9	B1/500		
BM	(30°-60°)	649.4	25.1	B1/1000		
BH	(60°-80°)	178.4	6.9	B1/500		G0/660
BVH	(80°-90°)	85.7	3.3			G1/100
UL	(90°-100°)	131.9	5.1		U3/500	
UH	(100°-180°)	175.2	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°	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0	281.0
2.5°	288.6	288.6	288.6	287.9	288.6	289.3	289.9	289.9	289.6	288.6	287.9
5°	308.9	308.9	308.5	309.2	309.2	307.9	308.5	311.0	313.4	311.6	311.0
7.5°	358.1	357.1	354.7	352.6	350.2	350.2	355.4	358.5	364.0	364.7	363.0
10°	407.7	409.1	410.5	410.5	416.3	422.9	427.3	426.0	421.8	418.7	416.7
12.5°	422.2	423.2	435.3	465.6	488.0	506.2	490.7	467.3	448.7	436.6	435.3
15°	433.2	436.0	451.1	489.0	545.1	560.3	528.2	468.7	432.5	415.3	411.5
17.5°	444.2	447.3	472.8	527.6	572.0	568.2	529.6	465.9	413.2	390.5	387.7
20°	434.6	438.0	473.8	547.2	579.6	561.3	547.9	488.0	428.0	401.9	398.8
22.5°	438.4	441.8	478.0	549.2	569.2	570.3	549.6	513.8	443.5	413.6	408.7
25°	445.3	448.0	492.8	564.7	565.1	562.3	552.0	532.4	466.9	438.4	434.2
27.5°	445.3	447.7	497.9	558.2	562.0	555.8	568.9	576.1	525.8	500.3	501.4
30°	465.2	466.6	518.6	557.5	548.9	553.7	590.6	612.6	578.2	537.2	536.9
32.5°	504.1	510.7	565.4	581.3	547.5	552.0	596.1	634.6	612.3	563.0	557.5
35°	554.1	555.8	606.1	601.9	557.5	555.1	609.2	669.4	650.5	601.9	600.2
37.5°	570.3	572.7	632.6	621.6	569.6	571.6	630.9	711.8	711.1	672.2	659.8
40°	568.9	580.9	653.2	637.1	586.8	595.4	647.7	759.3	794.8	764.5	759.0
42.5°	671.5	677.7	720.0	661.5	602.6	602.6	654.6	750.0	765.8	708.0	696.6
45°	682.2	681.8	728.3	681.5	606.8	592.6	630.2	714.5	755.9	717.6	700.8
47.5°	660.1	668.7	726.6	670.1	599.2	564.4	588.2	673.9	705.9	647.0	633.6
50°	636.4	642.9	687.0	618.1	561.6	536.9	554.8	616.7	629.5	558.5	548.2
52.5°	571.3	572.0	624.3	569.9	528.9	503.4	517.9	575.4	610.2	542.4	535.1
55°	484.2	493.5	559.9	526.2	490.4	468.3	471.1	480.7	450.1	348.5	324.7
57.5°	370.2	382.2	459.7	461.4	433.9	398.8	360.2	305.1	262.7	168.7	162.2
60°	252.1	262.4	320.9	335.4	346.4	306.1	249.3	217.6	211.1	146.4	141.5
62.5°	156.0	164.6	219.4	224.5	248.6	223.5	197.7	188.0	195.6	139.8	136.4
65°	144.3	150.1	190.4	182.9	188.7	187.3	176.0	174.2	183.5	136.4	134.0
67.5°	139.5	144.3	176.3	170.8	173.2	175.3	167.4	168.7	181.5	139.1	136.4
70°	137.1	142.2	171.8	168.0	170.5	172.5	167.7	165.6	173.9	140.2	136.4
72.5°	135.3	140.8	164.9	162.5	169.1	174.6	169.8	165.3	168.7	140.8	137.1
75°	132.2	137.7	158.7	160.1	170.1	176.7	170.5	163.6	163.2	139.5	135.0
77.5°	131.5	137.7	152.2	160.8	170.5	179.1	174.2	164.3	159.8	140.2	134.6
80°	130.5	137.4	155.3	166.3	173.2	177.7	175.6	168.7	162.2	145.3	139.5
82.5°	136.4	142.6	158.1	170.5	172.5	171.8	171.8	167.4	160.1	145.7	140.2
85°	143.6	148.4	164.6	171.8	170.1	165.6	163.6	163.2	159.8	149.5	145.0
87.5°	142.2	145.7	156.7	163.6	164.3	155.3	155.6	153.6	149.8	139.5	135.7
90°	132.9	135.3	147.7	155.0	150.5	143.3	140.2	136.0	136.4	127.1	124.3
92.5°	126.7	129.5	138.4	142.6	141.9	129.8	127.8	127.4	125.3	117.4	115.7
95°	118.5	120.2	127.8	133.3	129.8	117.4	115.4	113.6	114.0	110.9	111.2
97.5°	116.4	117.8	123.3	122.2	116.4	105.7	104.3	103.7	103.3	101.6	101.2
100°	111.9	111.9	113.6	110.5	103.7	95.7	93.7	94.0	94.4	92.3	91.6
102.5°	104.3	104.7	105.4	102.6	96.1	87.8	85.7	87.5	88.2	87.5	87.1
105°	98.8	98.5	98.8	95.7	88.5	81.3	78.9	80.6	82.3	82.6	82.0
107.5°	90.6	90.2	90.2	87.1	81.6	75.8	73.7	72.7	72.7	72.7	72.7
110°	78.5	78.9	78.9	77.5	74.7	71.3	68.5	66.5	67.1	66.8	67.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	73.0	73.0	72.3	71.3	68.5	65.1	62.0	60.6	59.9	59.6	59.9
115°	67.1	67.5	65.4	64.7	62.0	59.9	56.8	55.8	55.8	56.8	57.5
117.5°	62.0	62.0	60.6	58.9	56.5	54.8	53.4	52.7	52.7	54.1	54.1
120°	56.1	56.1	54.8	52.7	51.7	49.2	49.6	49.2	50.3	52.0	52.3
122.5°	49.6	49.6	48.2	46.5	47.2	45.5	44.8	43.4	45.5	47.5	47.9
125°	44.1	43.7	42.4	40.3	43.0	43.0	41.3	36.8	39.6	41.3	41.7
127.5°	40.3	39.9	38.2	36.2	39.6	41.7	37.9	33.4	34.8	36.5	37.2
130°	38.2	37.9	36.2	33.7	34.8	39.6	34.1	32.0	33.7	35.5	35.5
132.5°	36.8	36.5	35.1	32.7	31.0	36.2	30.6	31.3	33.7	35.5	35.5
135°	34.1	34.1	32.4	28.9	24.8	26.5	24.8	28.2	31.0	32.4	32.7
137.5°	29.3	29.3	27.9	24.8	20.0	18.9	19.6	24.1	27.2	28.6	28.6
140°	23.1	22.7	21.4	18.6	13.1	9.0	12.7	18.3	21.4	22.7	22.7
142.5°	16.2	15.8	14.1	11.4	6.9	3.1	6.9	11.0	14.1	15.5	15.8
145°	10.3	10.3	9.0	6.9	3.4	1.0	2.8	6.5	8.6	10.0	10.0
147.5°	6.5	6.5	5.5	3.8	1.0	0.7	1.0	3.1	5.2	6.2	6.5
150°	3.8	3.8	2.8	1.4	0.7	0.3	0.7	1.0	2.1	3.1	3.1
152.5°	1.4	1.0	0.7	0.7	0.3	0.3	0.3	0.7	0.7	1.0	1.0
155°	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
157.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
162.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.3	0.3	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)