

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: P240093

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-FP-7030**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P240093
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-AF24-40-D-U-5WQ-FP-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 500mA 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: 3769.5 lumens
Efficiency: N/A
Efficacy: 94.2 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): 40
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

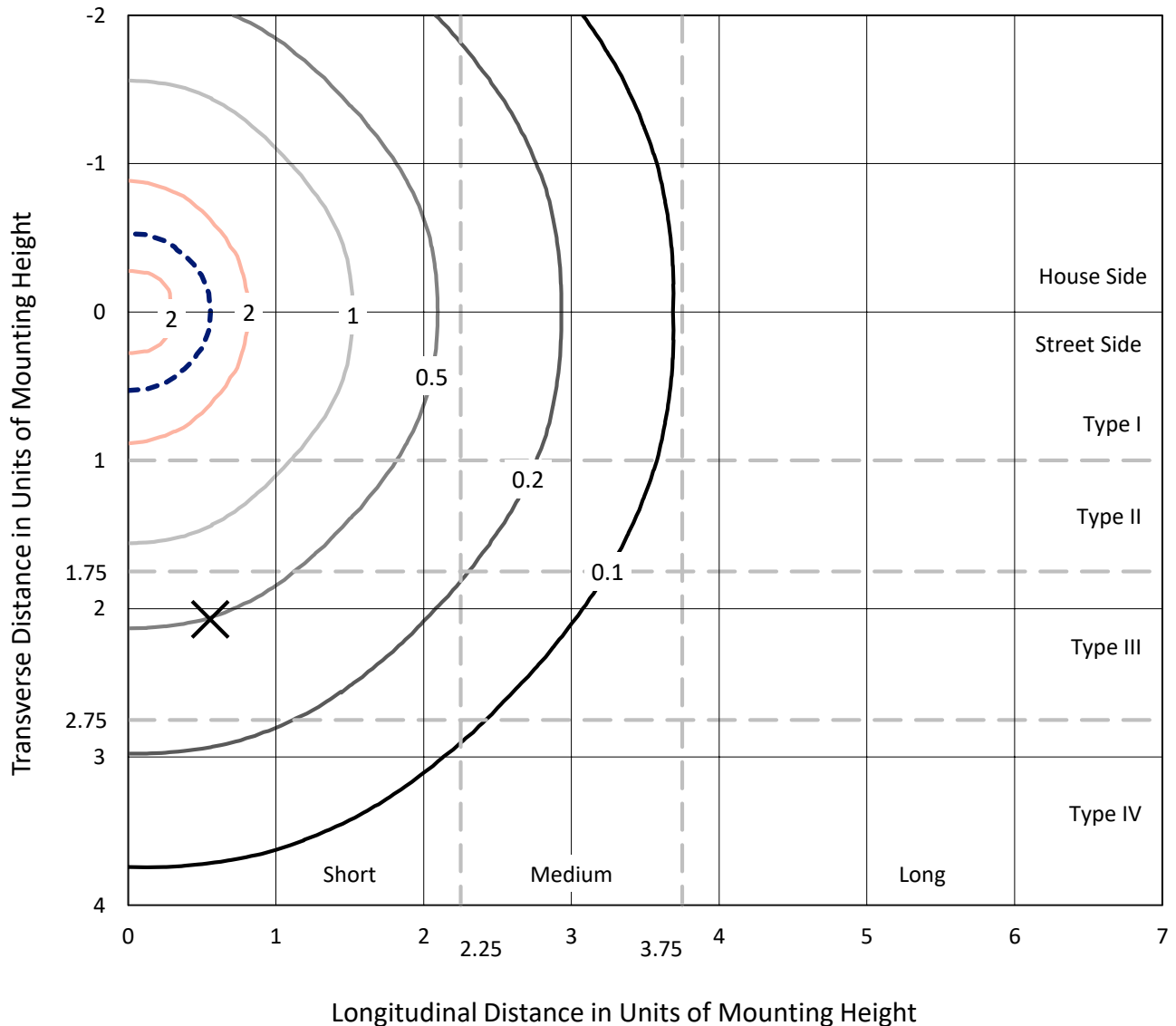


REPORT NUMBER: P240093

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-FP-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

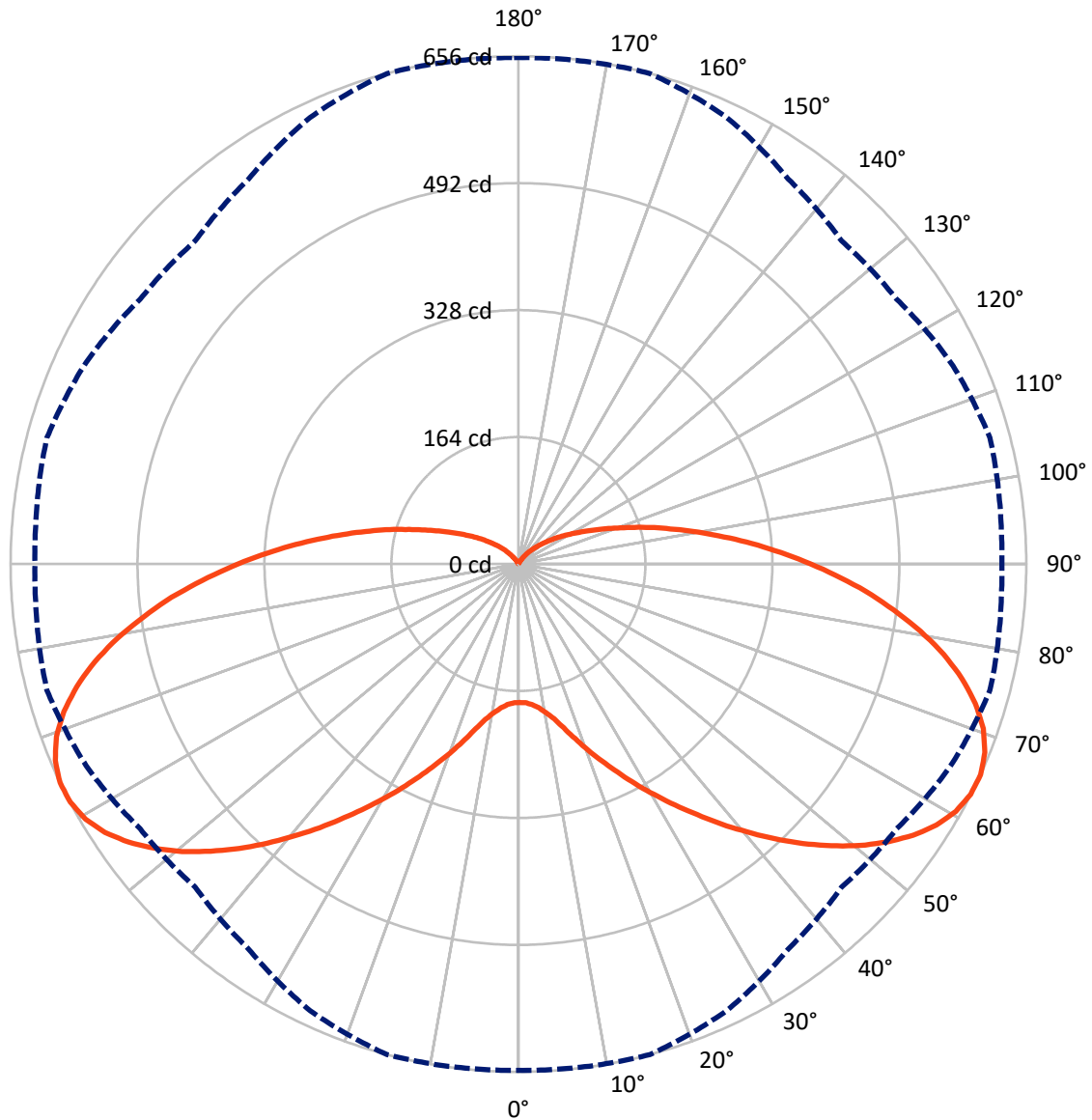


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P240093

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-FP-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P240093

CATALOG NUMBER: UTLD-AF24-40-D-U-5WQ-FP-7030

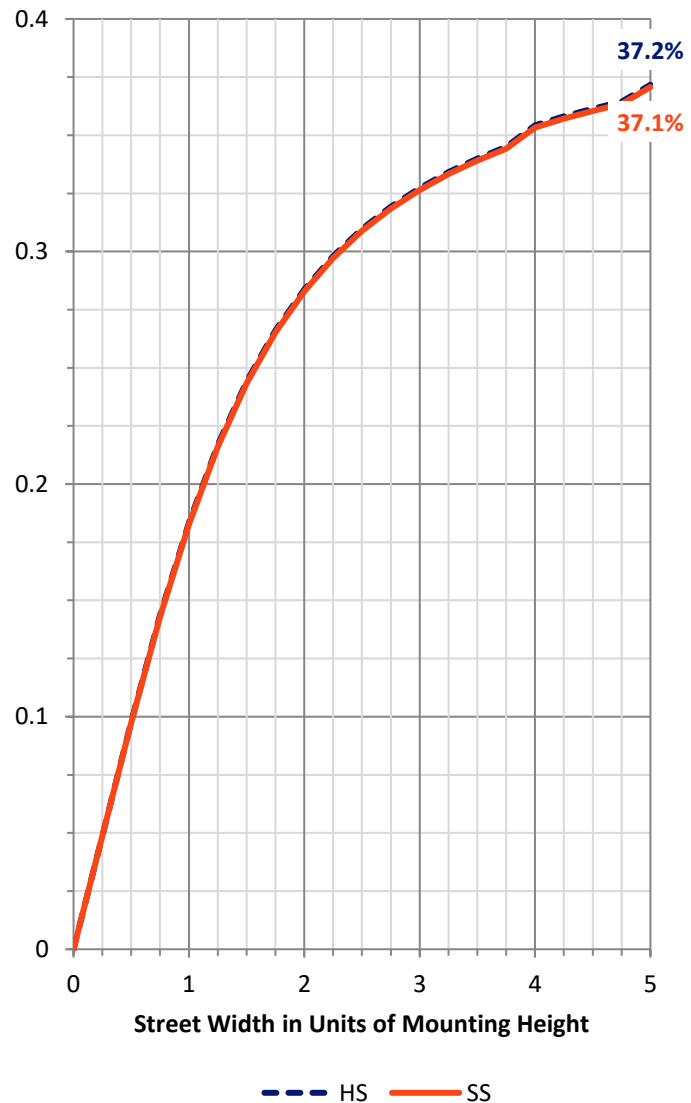
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.7	351.0	1884.7
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1533.7	351.0	1884.7
	% Fixture	40.7	9.3	50.0
Total	Lumens	3067.4	702.1	3769.5
	% Fixture	81.4	18.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.5
10°-20°	63.1	1.7
20°-30°	137.9	3.7
30°-40°	248.4	6.6
40°-50°	388.6	10.3
50°-60°	529.3	14.0
60°-70°	614.2	16.3
70°-80°	593.4	15.7
80°-90°	474.9	12.6
90°-100°	323.5	8.6
100°-110°	195.2	5.2
110°-120°	106.5	2.8
120°-130°	51.6	1.4
130°-140°	20.1	0.5
140°-150°	4.8	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3067.4	81.4
0°-180°	3769.5	100.0



REPORT NUMBER: P240093

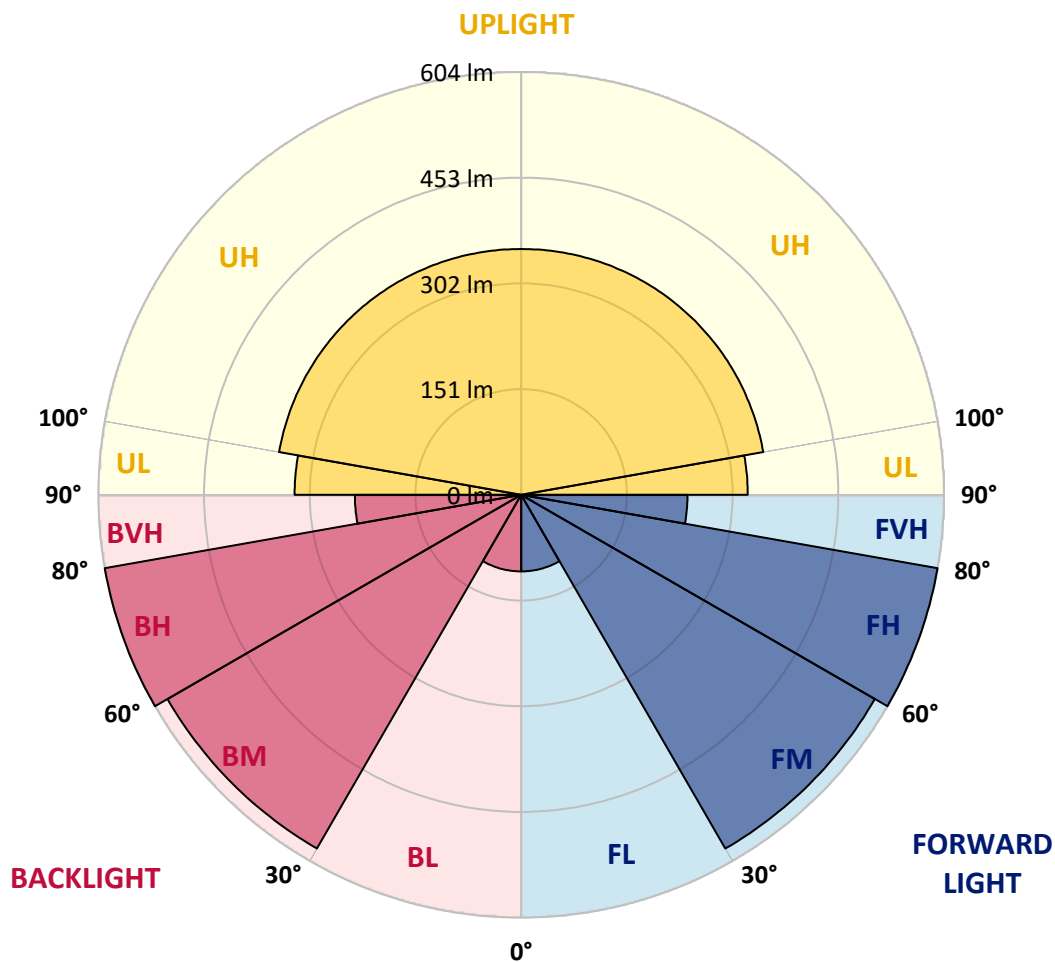
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	109.4	2.9			
FM (30°-60°)	583.1	15.5			
FH (60°-80°)	603.8	16.0			G0/660
FVH (80°-90°)	237.5	6.3			G3/500
BL (0°-30°)	109.4	2.9	B0/110		
BM (30°-60°)	583.1	15.5	B1/1000		
BH (60°-80°)	603.8	16.0	B2/1000		G0/660
BVH (80°-90°)	237.5	6.3			G3/500
UL (90°-100°)	323.5	8.6		U3/500	
UH (100°-180°)	351.0	9.3		U3/500	

BUG Rating: B2-U3-G3

Type V Short





REPORT NUMBER: P240093

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	179.7	179.7	179.3	179.3	179.3	179.3	179.3	179.7	179.3	179.7	179.7
5°	182.1	182.6	182.1	182.1	182.6	182.1	182.1	182.6	182.1	182.1	182.1
7.5°	187.7	187.7	187.3	187.3	187.3	186.9	186.9	187.3	186.9	186.9	186.9
10°	195.3	195.3	194.8	194.8	194.4	193.9	193.9	193.9	194.4	194.4	194.4
12.5°	205.3	205.7	204.8	204.4	203.9	203.3	203.3	203.3	203.3	203.9	203.3
15°	220.3	220.3	219.4	217.5	216.2	215.7	214.7	215.7	216.7	217.1	218.1
17.5°	238.8	237.8	237.0	235.0	232.1	229.3	230.7	232.1	233.6	234.2	234.2
20°	257.8	257.8	256.3	253.5	251.2	248.8	249.2	250.2	251.2	252.1	251.7
22.5°	277.2	278.1	276.2	274.3	272.4	271.9	269.6	269.6	270.1	271.0	271.0
25°	300.4	299.4	297.9	296.1	295.5	295.5	292.3	290.4	290.8	291.2	291.2
27.5°	324.0	323.0	321.1	319.2	319.7	318.8	316.5	313.1	311.7	313.1	312.2
30°	347.7	347.1	345.3	343.8	344.8	343.8	341.0	335.8	334.9	335.3	335.8
32.5°	372.7	373.1	370.8	370.3	370.8	368.4	366.0	362.3	358.9	360.3	360.3
35°	400.6	400.6	397.2	397.7	396.3	394.0	391.1	388.3	385.0	386.4	385.4
37.5°	429.0	428.6	426.1	425.7	422.9	418.1	416.8	415.3	411.5	412.5	412.9
40°	459.2	457.8	454.5	454.1	448.4	443.1	442.2	442.2	437.9	440.4	440.8
42.5°	488.6	487.7	484.8	482.4	473.8	467.7	466.3	469.6	466.7	468.1	468.1
45°	517.9	515.4	514.6	510.4	499.0	490.9	491.3	495.6	496.1	496.1	495.2
47.5°	545.8	545.3	543.4	535.4	522.6	513.6	514.6	521.1	523.6	523.1	523.6
50°	573.2	571.8	571.3	560.9	543.9	533.5	535.8	544.3	549.6	548.2	548.6
52.5°	599.2	596.9	595.9	583.7	563.8	552.0	554.3	566.6	572.7	572.3	572.3
55°	619.6	618.6	618.2	603.0	580.2	567.5	570.9	584.5	594.1	592.0	591.6
57.5°	636.6	635.7	636.1	618.6	593.5	578.8	583.1	600.2	611.1	608.2	608.2
60°	648.9	647.9	648.5	630.0	603.0	586.9	592.0	610.1	622.9	619.6	619.1
62.5°	654.6	654.1	655.0	635.7	607.3	590.6	596.3	615.7	629.5	625.2	624.3
65°	653.6	654.1	655.5	636.1	606.8	589.8	595.9	615.7	630.0	625.2	623.9
67.5°	646.0	647.5	649.3	630.4	601.2	584.5	590.2	610.1	624.3	619.1	616.8
70°	631.8	633.2	636.6	618.6	590.6	574.1	579.4	598.7	611.6	605.4	602.6
72.5°	609.6	613.0	616.8	601.2	574.6	559.0	564.3	582.3	594.1	585.9	582.7
75°	581.7	586.5	591.6	578.4	553.8	539.6	544.8	560.9	568.9	561.4	555.2
77.5°	550.5	555.2	561.4	550.5	528.7	516.5	519.7	532.9	540.1	530.7	525.9
80°	512.7	517.9	526.4	519.3	501.8	489.5	493.3	502.7	506.1	496.1	489.9
82.5°	475.3	480.0	488.1	485.2	470.6	460.6	462.5	469.6	471.0	459.2	454.1
85°	435.1	439.3	449.8	449.3	438.4	430.4	431.8	436.1	432.7	420.0	414.3
87.5°	394.9	397.2	409.0	411.1	405.4	399.7	399.2	399.2	394.4	381.7	377.4
90°	355.6	358.1	369.4	375.6	372.2	367.4	366.6	364.6	355.2	343.4	340.6
92.5°	317.8	318.8	331.5	340.1	339.1	335.8	334.4	330.6	319.7	306.0	304.1
95°	282.3	283.3	295.5	305.1	307.4	306.5	303.6	298.4	284.3	270.5	270.1
97.5°	249.7	249.2	261.0	272.9	277.6	277.6	273.3	266.3	252.6	238.8	238.4
100°	219.9	218.9	229.9	244.0	249.2	250.2	246.4	237.0	221.4	210.5	211.0
102.5°	193.0	192.0	201.5	215.2	222.8	224.6	220.3	209.0	194.4	184.4	184.9
105°	169.4	168.4	176.5	189.7	198.2	200.1	195.3	184.4	168.4	161.2	162.2
107.5°	147.1	146.6	152.3	165.5	175.1	177.9	173.0	161.2	146.2	141.0	141.4
110°	129.6	129.2	131.9	144.2	154.6	157.5	151.8	139.6	126.7	123.5	123.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	113.9	112.5	114.5	125.3	134.8	138.1	132.4	119.6	109.7	108.2	108.8
115°	99.3	99.3	98.9	107.4	117.4	120.0	114.5	103.1	95.0	94.6	94.6
117.5°	87.5	86.6	86.1	91.2	100.3	103.6	98.4	88.0	82.8	83.2	83.7
120°	76.2	76.2	74.8	77.1	85.1	87.5	83.2	75.2	71.9	72.8	73.3
122.5°	66.6	66.2	64.8	65.2	70.9	73.8	69.5	63.4	62.4	64.4	64.4
125°	57.7	57.3	55.8	54.8	57.7	60.1	57.3	53.4	53.9	55.8	56.3
127.5°	49.7	49.1	47.3	45.5	46.9	48.3	46.3	44.5	46.9	48.3	48.7
130°	42.6	42.1	40.2	37.3	36.9	37.8	36.4	36.9	39.8	42.1	42.1
132.5°	35.9	35.9	33.6	30.3	28.4	28.4	28.4	30.3	33.6	35.5	35.9
135°	29.8	29.8	27.9	24.1	20.8	20.3	20.8	24.1	27.9	29.3	29.8
137.5°	24.6	24.1	22.2	18.9	14.6	13.7	14.6	18.5	22.2	24.1	24.1
140°	19.3	18.9	17.1	14.2	10.4	8.5	10.4	13.7	17.1	18.9	18.9
142.5°	14.2	14.2	12.3	10.0	6.7	5.3	6.7	10.0	12.8	13.7	14.2
145°	10.0	10.0	8.5	6.1	3.9	2.8	3.9	6.7	8.5	10.0	10.0
147.5°	6.7	6.7	5.7	3.9	2.4	1.4	2.4	4.3	5.7	6.7	6.7
150°	3.9	3.9	3.3	2.4	1.0	0.4	1.0	2.4	3.3	3.9	3.9
152.5°	1.8	1.8	1.4	1.0	0.4	0.4	0.4	1.0	1.8	1.8	2.4
155°	1.0	1.0	1.0	0.4	0.0	0.0	0.0	0.4	1.0	1.0	1.0
157.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)