

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: P266269

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 21
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

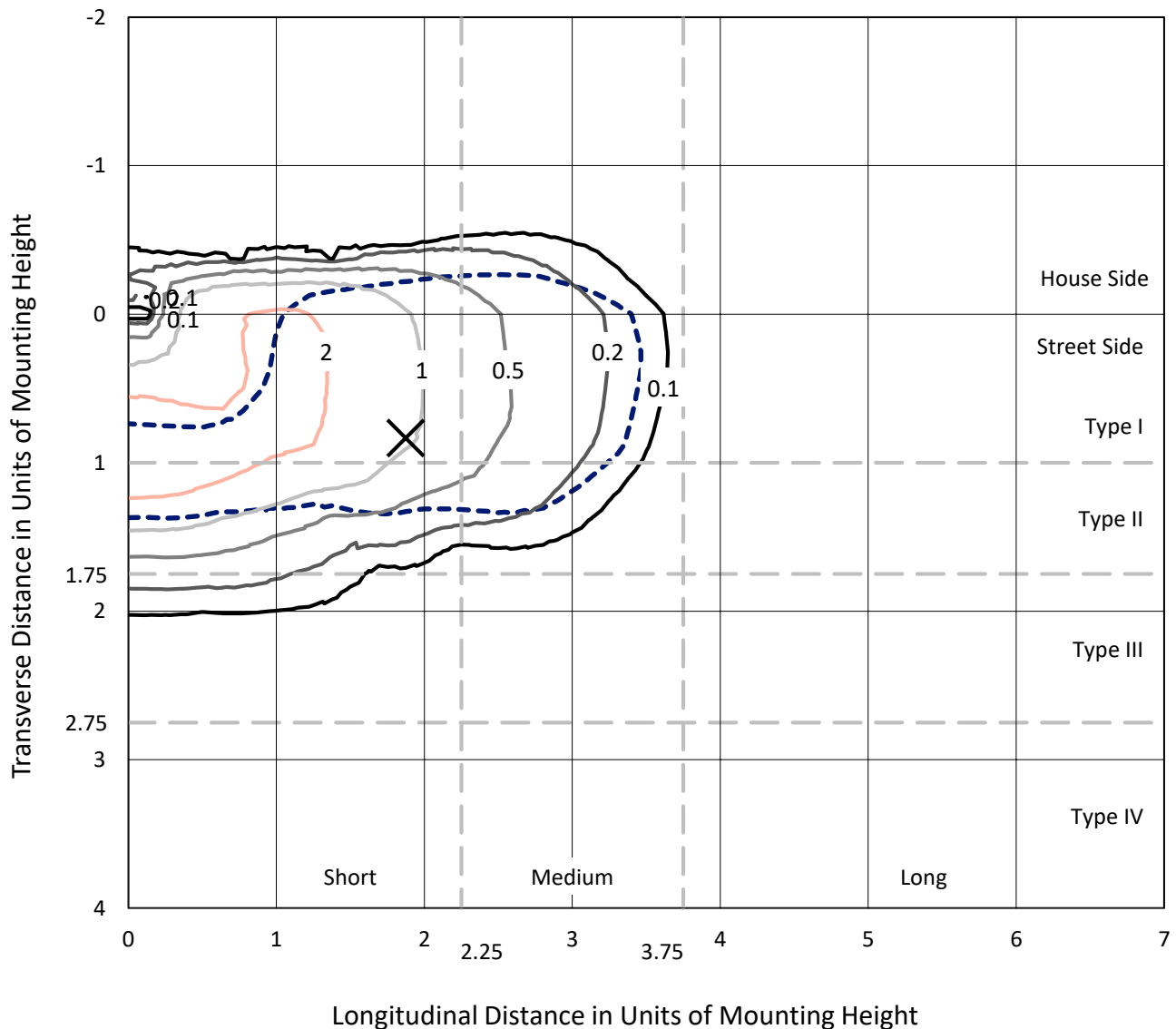


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

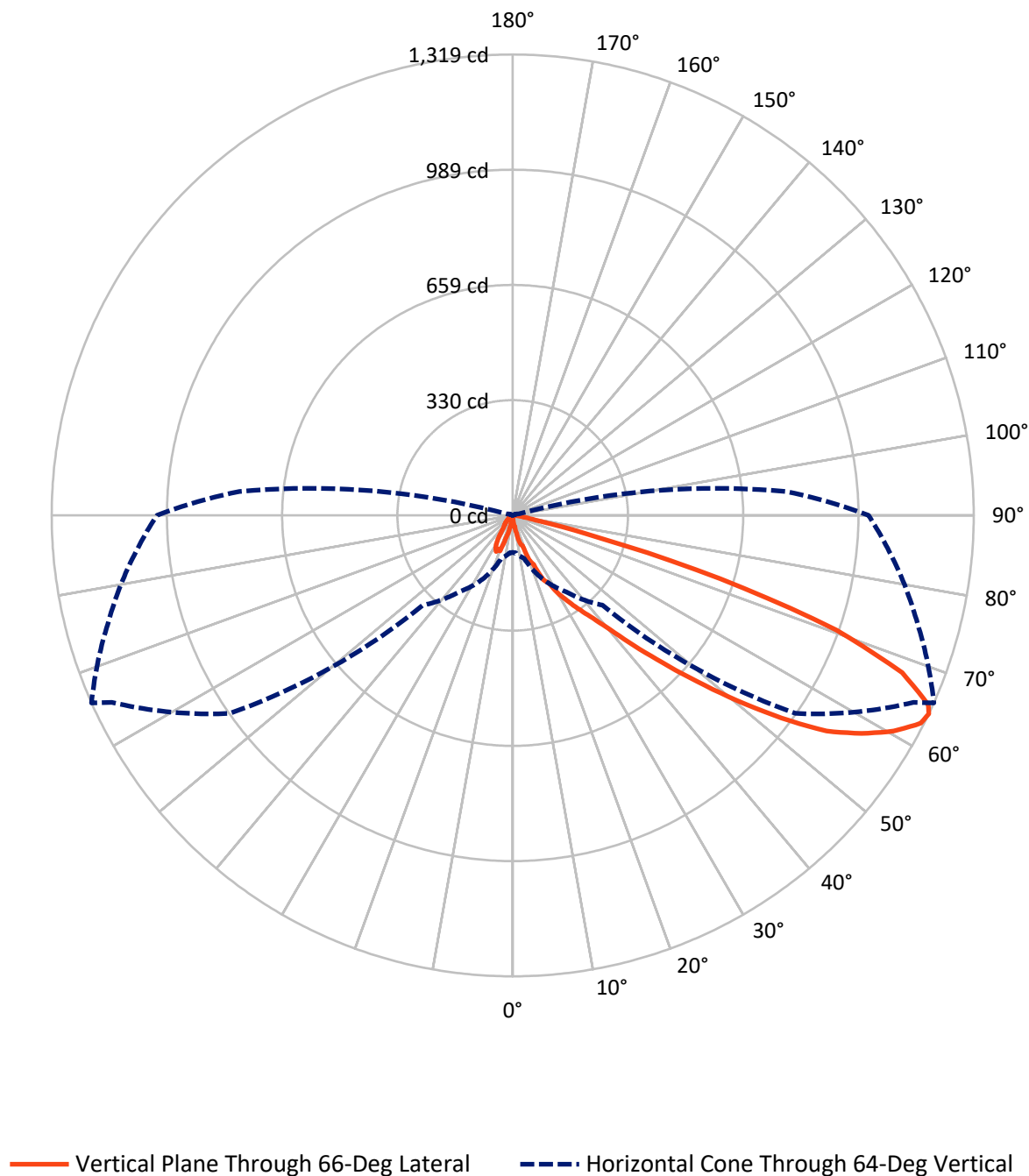


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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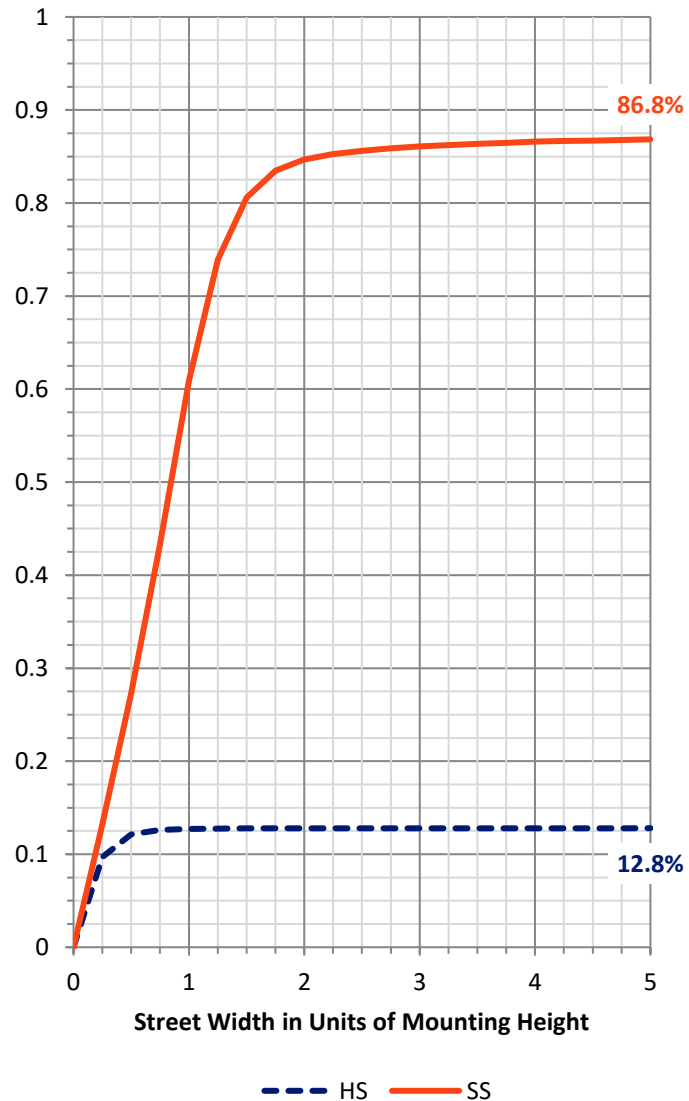
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	185.4	0.0	185.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1245.6	0.0	1245.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	1431.0	0.0	1431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.1
10°-20°	18.7	1.3
20°-30°	58.0	4.1
30°-40°	145.8	10.2
40°-50°	316.1	22.1
50°-60°	428.1	29.9
60°-70°	336.5	23.5
70°-80°	119.0	8.3
80°-90°	7.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1431.0	100.0
0°-180°	1431.0	100.0

Coefficient of Utilization



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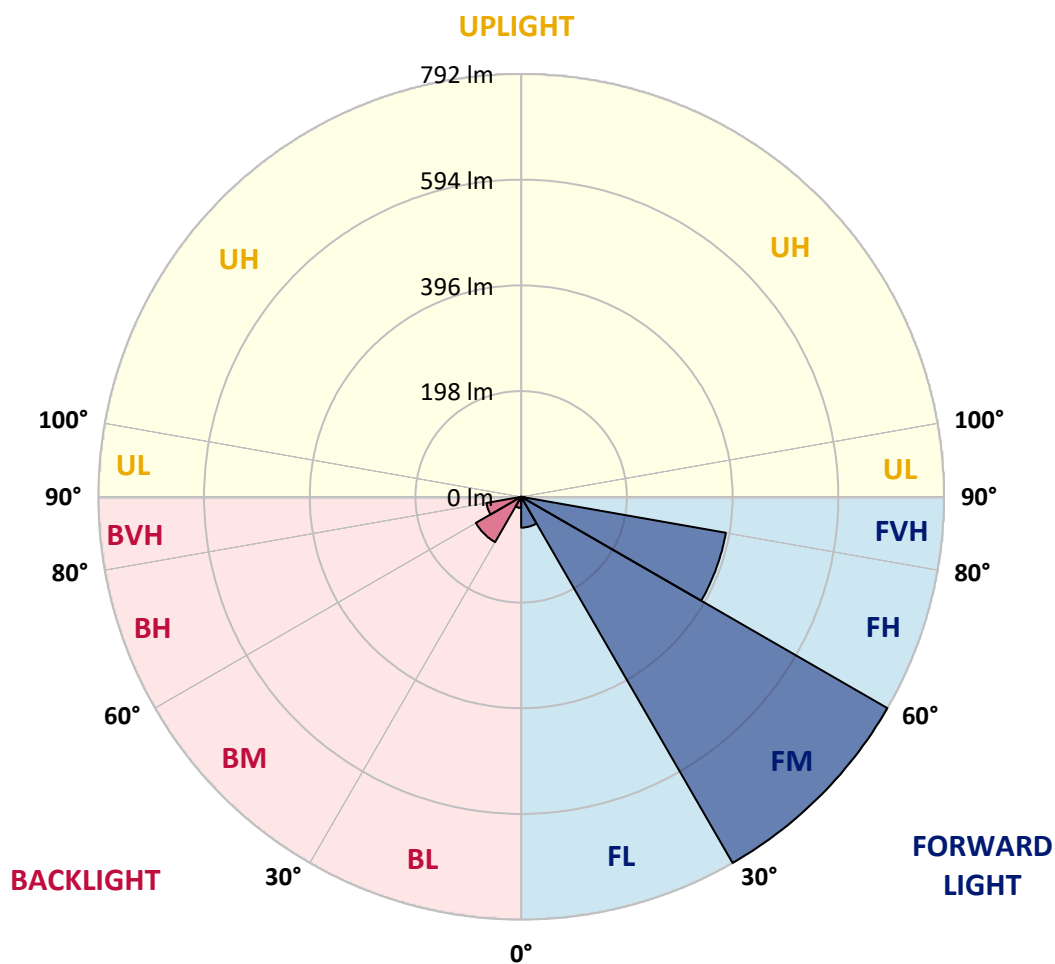
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.6	4.0			
FM	(30°-60°)	792.0	55.3			
FH	(60°-80°)	389.2	27.2			G0/660
FVH	(80°-90°)	6.7	0.5			G0/10
BL	(0°-30°)	20.7	1.4	B0/110		
BM	(30°-60°)	97.9	6.8	B0/220		
BH	(60°-80°)	66.3	4.6	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	5.3	5.1	4.3	3.4	1.2	0.7	0.0	0.0	0.0	0.0	0.0
5°	42.9	43.3	43.5	43.5	43.5	43.3	16.3	1.2	1.0	0.0	0.0
7.5°	41.9	42.0	42.0	42.0	42.3	42.3	42.3	40.9	33.5	0.7	0.0
10°	79.1	79.3	79.8	58.0	43.3	41.5	41.5	33.9	32.6	4.3	1.6
12.5°	77.9	78.1	78.5	78.8	79.3	52.7	43.9	60.5	64.5	83.8	54.8
15°	89.9	94.1	84.8	79.5	79.5	74.6	88.5	85.6	85.8	87.2	56.4
17.5°	117.7	117.5	118.3	119.4	87.2	109.5	114.9	89.7	90.5	101.8	103.5
20°	121.8	122.3	121.1	123.0	144.3	115.1	114.9	136.8	135.9	136.1	122.4
22.5°	165.7	166.2	168.0	139.4	150.7	142.3	149.8	152.7	152.7	143.1	144.3
25°	178.4	177.3	179.0	176.3	177.7	172.0	162.0	195.0	204.3	195.2	194.4
27.5°	247.8	245.5	240.4	196.6	193.3	182.6	213.3	218.6	218.9	217.2	225.2
30°	293.3	294.0	280.1	256.3	215.1	210.6	235.9	255.5	262.1	284.5	277.7
32.5°	437.7	428.8	388.8	304.4	265.5	247.8	262.5	300.2	295.5	310.3	310.3
35°	572.2	556.5	495.9	410.3	310.8	276.0	311.7	323.3	332.3	344.9	349.3
37.5°	706.5	700.3	637.0	520.7	400.5	322.6	351.9	374.1	373.2	389.5	397.9
40°	826.0	817.9	776.1	658.7	507.3	393.2	408.4	430.4	428.8	459.9	471.5
42.5°	915.0	909.7	882.2	763.4	639.1	513.0	493.0	502.4	508.4	541.8	553.6
45°	963.5	954.1	946.0	846.6	753.9	656.8	604.9	593.5	600.7	633.7	641.8
47.5°	953.1	941.6	952.8	896.1	854.9	782.5	752.3	714.3	709.0	751.3	735.8
50°	871.9	864.7	899.9	896.1	912.9	886.6	919.1	841.4	833.0	856.7	829.7
52.5°	728.2	728.2	782.8	818.4	912.0	961.2	1064.5	977.0	963.3	958.9	900.9
55°	580.2	584.1	635.3	687.1	832.5	981.4	1186.0	1101.5	1089.4	1031.9	954.5
57.5°	419.8	424.1	497.3	540.6	682.7	912.8	1232.5	1181.9	1177.0	1090.4	1004.0
60°	246.0	256.3	334.0	406.8	493.0	734.9	1214.1	1237.2	1252.7	1137.4	1040.3
62.5°	144.9	149.4	176.3	275.7	340.7	499.9	1113.5	1264.9	1309.8	1177.4	1068.7
64°	105.8	108.1	127.4	199.7	266.7	363.3	987.1	1264.9	1318.7	1198.9	1076.3
65°	86.4	87.5	101.0	159.7	225.7	277.8	868.5	1254.3	1306.9	1209.5	1074.6
67.5°	70.2	71.1	74.4	91.4	155.3	152.7	513.6	1160.3	1201.8	1221.1	1048.5
70°	63.3	64.0	69.9	71.2	114.9	101.8	165.6	953.6	981.6	1161.1	992.9
72.5°	48.1	50.0	60.5	69.3	79.5	76.1	79.3	587.9	620.5	884.2	847.2
75°	32.9	34.9	44.9	59.0	61.4	57.3	59.6	225.7	252.8	459.5	511.0
77.5°	21.0	21.3	28.0	42.8	54.8	39.2	45.2	63.6	73.9	155.6	159.3
80°	13.7	14.3	16.9	27.3	37.5	32.6	27.8	34.3	34.9	46.0	24.4
82.5°	8.4	8.3	11.0	16.9	22.9	27.6	17.2	22.3	23.1	27.0	10.4
85°	3.7	3.9	6.9	10.9	14.3	13.2	10.6	13.6	14.1	17.8	6.1
87.5°	1.4	1.4	4.1	6.1	6.3	6.3	6.5	7.2	7.2	11.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.2	0.2	0.0	0.0	1.0	22.3	31.9	31.9
10°	1.6	1.4	0.0	0.2	0.2	11.0	35.6	35.6	34.9	34.3	34.0
12.5°	54.3	62.6	59.9	25.8	20.0	31.7	33.5	29.7	26.6	25.2	24.7
15°	64.9	64.8	63.2	51.3	71.8	32.1	25.6	30.9	26.6	22.9	22.9
17.5°	108.2	102.6	85.8	69.6	64.9	43.5	25.8	17.6	14.6	13.6	13.6
20°	128.7	126.4	110.4	107.3	59.5	35.8	18.1	12.0	13.7	15.5	15.5
22.5°	158.3	157.1	116.1	102.1	59.2	21.7	14.6	14.6	14.3	13.6	13.6
25°	190.3	191.3	163.6	108.2	40.3	18.1	15.0	12.5	11.0	12.0	12.3
27.5°	232.0	201.5	164.7	99.8	27.6	16.9	12.8	12.0	11.9	11.4	11.4
30°	279.4	272.8	210.9	83.2	21.0	15.2	12.0	10.6	9.4	9.9	9.9
32.5°	312.0	291.9	207.1	62.8	18.1	13.2	10.4	9.0	9.3	9.4	9.3
35°	344.9	322.1	208.8	40.3	16.2	10.9	8.4	7.9	7.7	8.8	8.8
37.5°	391.5	362.7	205.6	25.4	13.6	9.0	7.2	6.9	7.2	7.5	7.5
40°	448.8	415.8	198.2	19.1	11.0	7.2	6.1	5.7	6.3	6.3	6.3
42.5°	517.3	473.9	178.7	16.7	9.4	5.7	4.9	4.9	5.3	5.3	5.3
45°	599.3	544.7	153.7	14.7	7.9	4.9	3.9	4.1	4.3	4.3	4.3
47.5°	689.4	622.5	122.0	12.8	6.7	3.9	3.1	3.1	3.4	3.4	3.4
50°	772.8	686.8	96.2	11.4	5.6	3.1	2.4	2.4	2.4	2.4	2.4
52.5°	834.2	729.1	70.1	9.9	4.9	2.4	1.6	1.6	1.6	1.6	1.6
55°	884.2	757.1	50.8	8.4	3.9	1.9	1.2	1.0	1.2	1.0	1.0
57.5°	928.2	774.8	36.6	6.9	3.1	1.2	0.4	0.4	0.4	0.4	0.4
60°	968.1	784.2	27.0	5.7	2.6	0.7	0.4	0.2	0.2	0.0	0.0
62.5°	1004.3	787.5	20.5	4.6	2.2	0.4	0.2	0.0	0.0	0.0	0.0
64°	1017.6	784.4	17.6	4.1	1.9	0.2	0.2	0.0	0.0	0.0	0.0
65°	1021.7	776.9	16.0	3.7	1.6	0.2	0.2	0.0	0.0	0.0	0.0
67.5°	1009.2	742.9	11.9	3.0	1.4	0.2	0.2	0.0	0.0	0.0	0.0
70°	960.1	678.6	8.8	2.4	1.0	0.0	0.2	0.0	0.0	0.0	0.0
72.5°	785.2	512.4	6.3	1.9	1.0	0.0	0.2	0.0	0.0	0.0	0.0
75°	471.5	216.0	4.6	1.4	1.0	0.0	0.4	0.0	0.0	0.0	0.0
77.5°	142.3	69.6	3.4	1.2	1.2	0.0	0.7	0.2	0.0	0.0	0.0
80°	19.1	10.4	1.9	1.0	1.2	0.0	1.0	0.2	0.0	0.0	0.0
82.5°	6.9	3.4	1.2	1.0	1.2	0.0	1.0	0.7	0.2	0.2	0.0
85°	2.6	1.9	1.0	0.7	1.4	0.0	1.2	0.7	0.2	0.2	0.0
87.5°	1.2	1.0	0.7	0.7	1.4	0.0	1.2	1.0	0.2	0.2	0.0
90°	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)