

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: P239605

Luminaire Tested: **UTLD-AF24-20-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-T2U-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
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: 2150 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

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

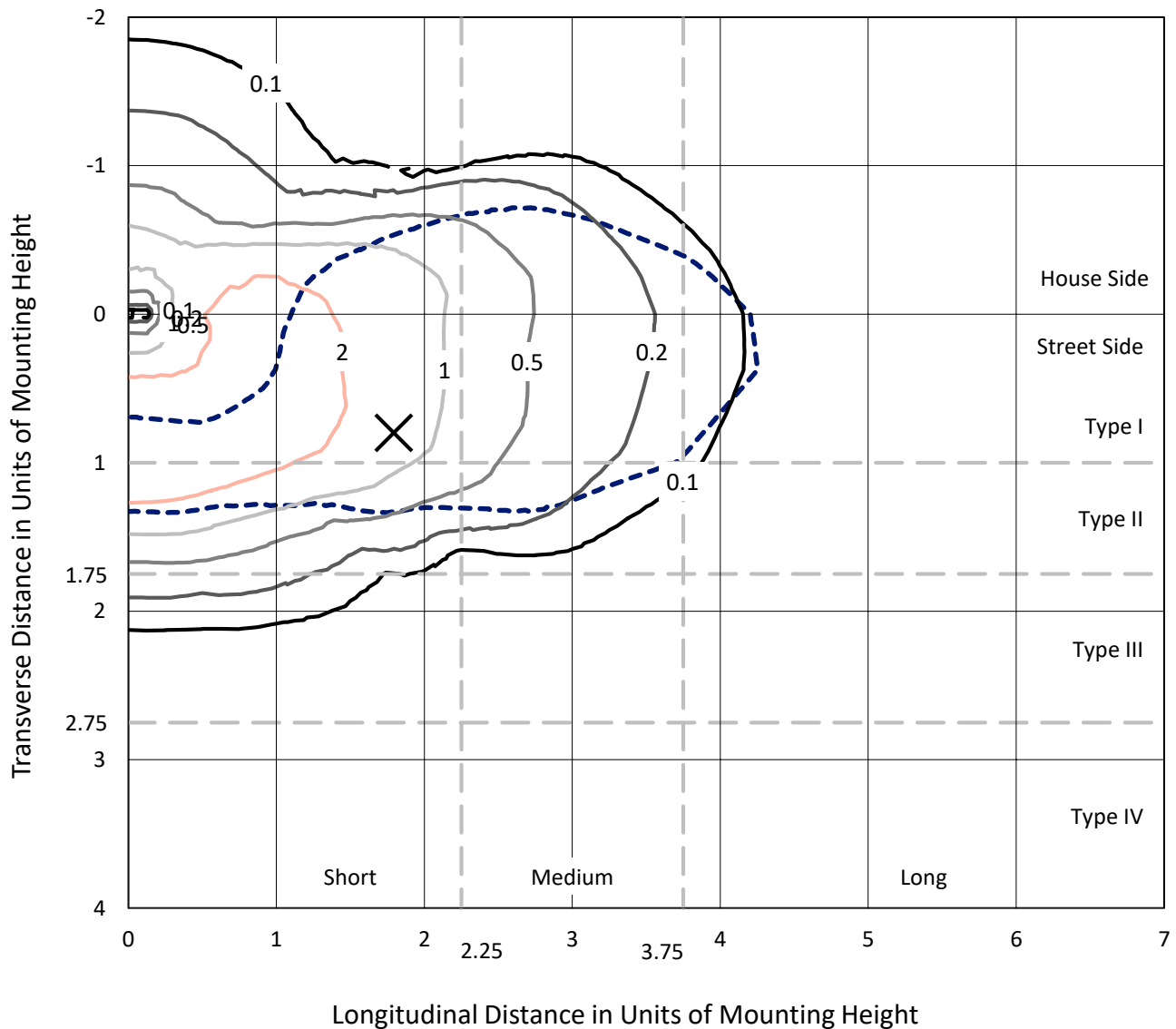


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

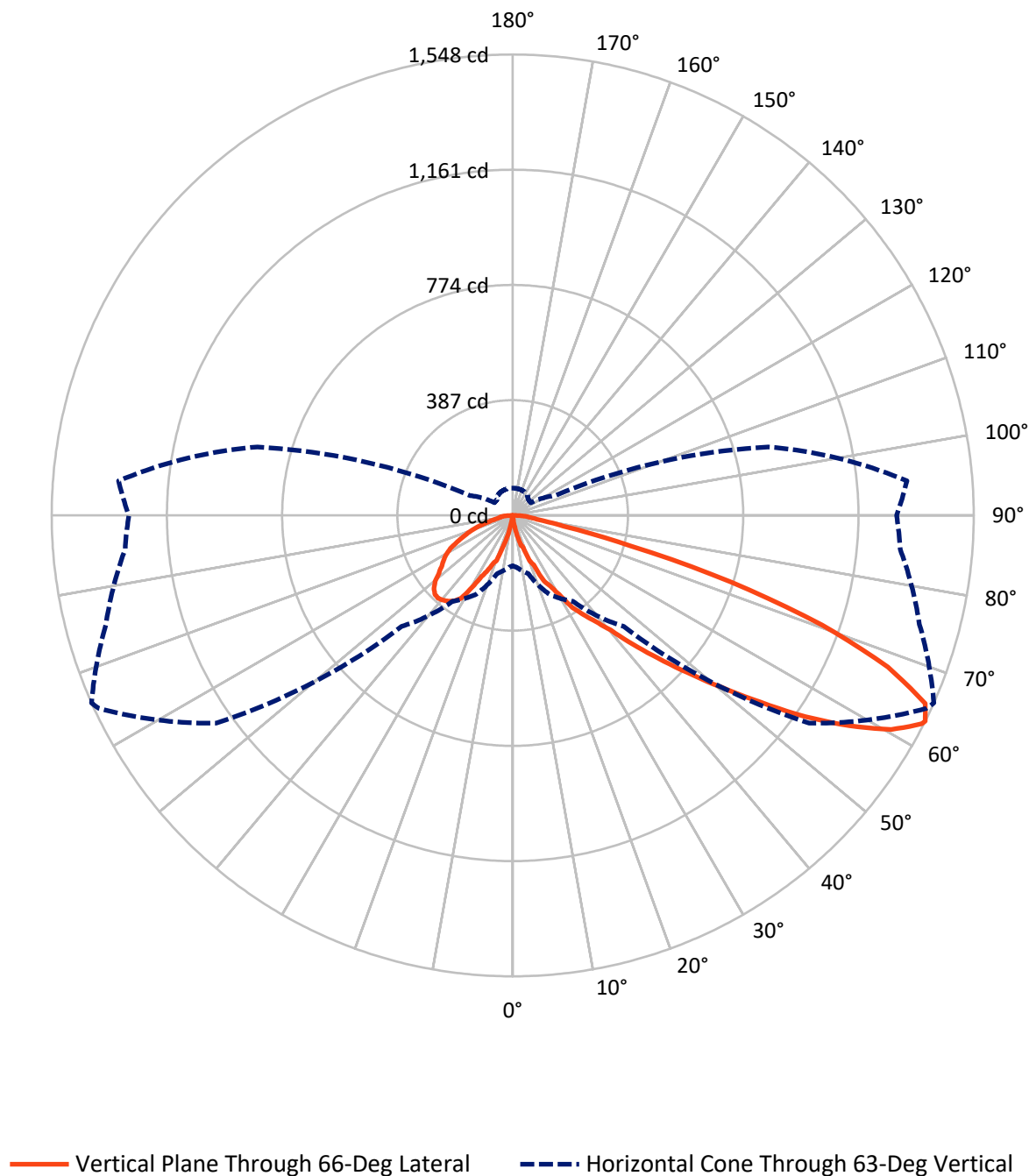


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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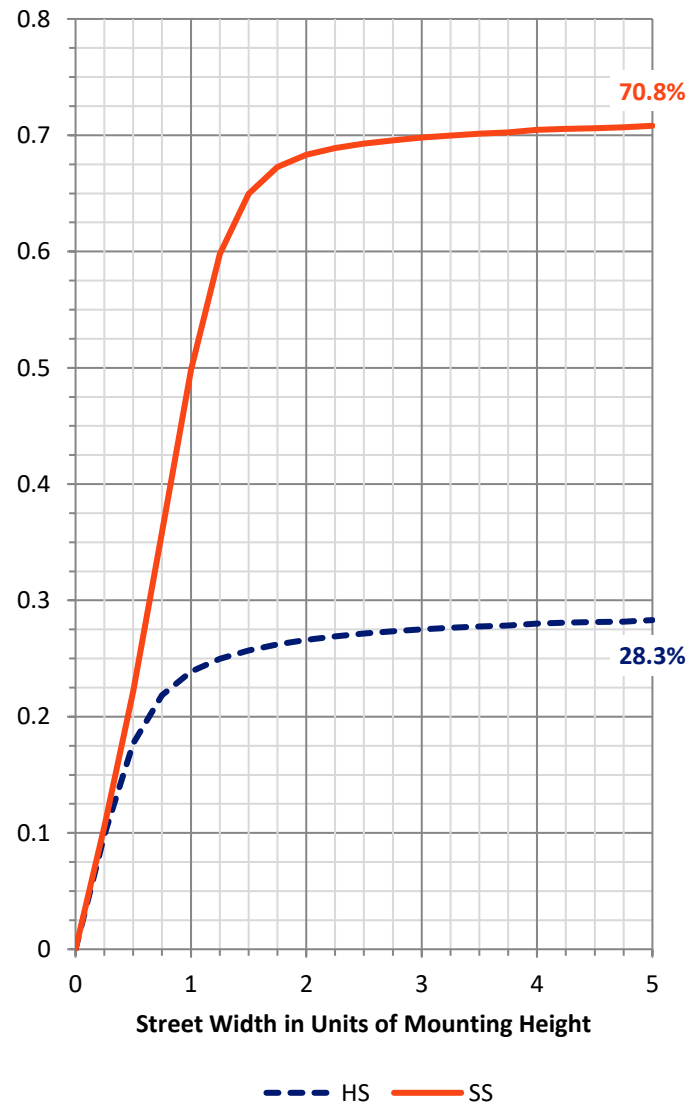
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	619.2	0.0	619.2
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	1530.8	0.0	1530.8
	% Fixture	71.2	0.0	71.2
Total	Lumens	2150.0	0.0	2150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	28.4	1.3
20°-30°	104.4	4.9
30°-40°	237.5	11.0
40°-50°	427.7	19.9
50°-60°	558.4	26.0
60°-70°	496.1	23.1
70°-80°	252.0	11.7
80°-90°	43.3	2.0
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°	2150.0	100.0
0°-180°	2150.0	100.0

Coefficient of Utilization



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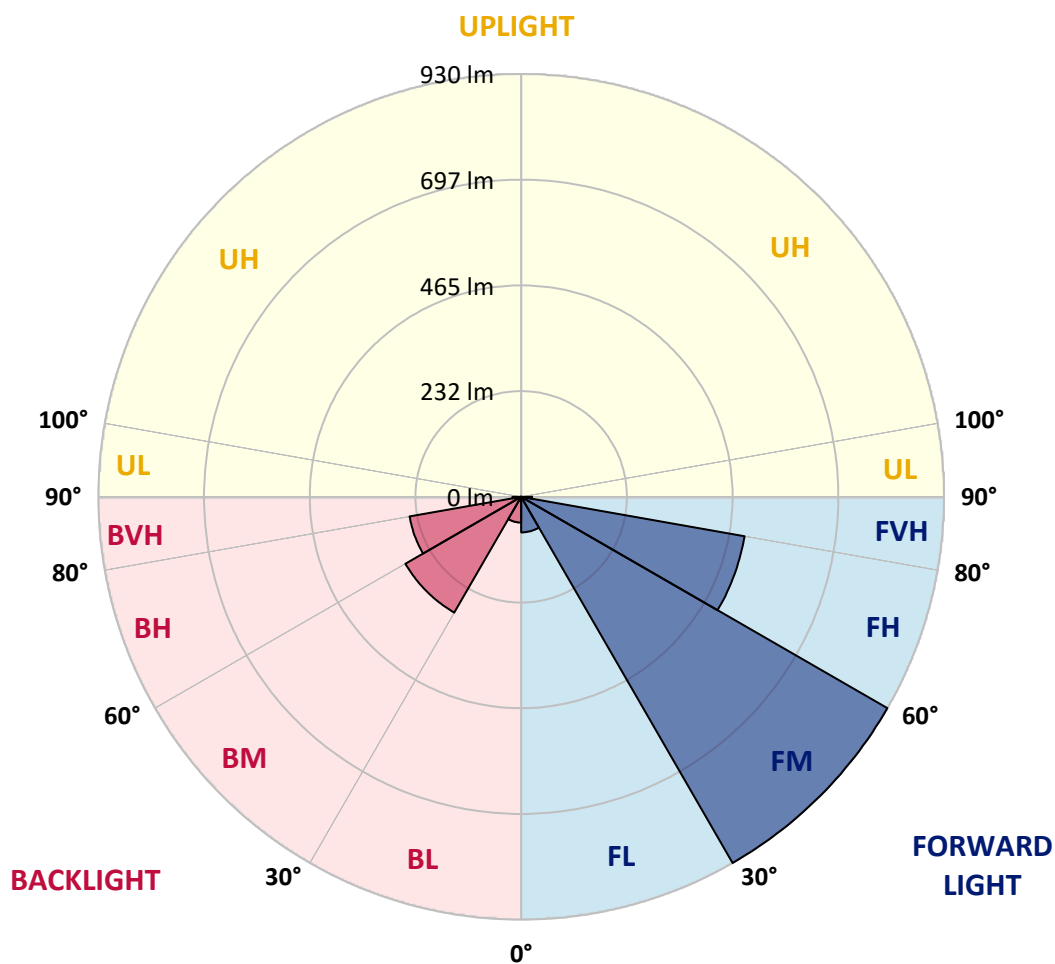
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.2	3.6			
FM	(30°-60°)	929.7	43.2			
FH	(60°-80°)	498.9	23.2			G0/660
FVH	(80°-90°)	24.0	1.1			G1/100
BL	(0°-30°)	56.7	2.6	B0/110		
BM	(30°-60°)	294.0	13.7	B1/1000		
BH	(60°-80°)	249.2	11.6	B1/500		G1/500
BVH	(80°-90°)	19.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	5.4	5.4	4.7	3.7	3.0	2.5	1.7	1.2	1.2	0.7	0.5
5°	49.7	49.7	49.5	49.2	48.7	46.8	8.6	2.7	2.5	1.2	0.7
7.5°	50.7	50.5	50.5	50.0	49.7	48.7	48.0	18.7	15.8	2.7	1.5
10°	90.9	90.4	89.6	60.6	51.2	50.0	49.7	39.1	38.9	8.4	6.2
12.5°	94.8	95.0	94.3	93.6	91.6	57.4	54.9	70.9	72.1	83.0	64.5
15°	108.1	106.6	101.2	97.7	96.0	90.1	102.7	102.4	102.9	97.3	73.9
17.5°	153.4	152.9	151.7	142.3	105.6	135.4	129.5	110.3	111.8	127.5	127.5
20°	173.1	172.8	168.4	163.2	181.2	146.0	139.1	162.0	163.2	165.0	152.7
22.5°	260.0	259.8	249.2	191.6	203.6	183.2	184.2	184.7	180.2	177.8	191.1
25°	301.6	299.6	293.7	276.5	241.5	244.0	201.4	242.3	244.2	242.8	239.8
27.5°	425.5	425.7	376.5	326.2	296.4	274.5	277.0	268.9	268.6	264.2	276.0
30°	495.9	492.4	475.2	426.4	353.8	324.5	311.0	316.1	308.3	336.1	333.9
32.5°	661.8	661.8	602.2	494.9	426.4	402.3	361.4	362.9	368.8	364.9	370.5
35°	778.5	767.4	708.6	621.4	483.6	452.3	427.9	406.5	409.0	402.1	407.5
37.5°	902.4	891.3	826.3	714.5	584.5	528.9	483.8	457.2	451.1	451.6	455.7
40°	998.6	992.5	952.6	829.2	684.2	610.6	549.3	513.1	506.5	518.5	532.1
42.5°	1065.9	1063.4	1039.8	930.9	801.9	734.5	642.9	590.4	591.6	598.0	611.6
45°	1092.7	1087.0	1086.3	995.2	908.0	874.1	765.2	678.6	683.0	700.5	703.2
47.5°	1063.4	1051.6	1073.0	1021.8	996.2	998.4	905.1	792.3	787.9	804.6	803.1
50°	956.0	952.1	993.2	1001.3	1039.8	1090.7	1058.5	919.1	906.3	907.8	897.7
52.5°	789.6	799.2	853.4	910.0	1019.3	1140.7	1195.6	1053.0	1042.0	1010.7	991.2
55°	634.7	646.3	704.9	749.0	915.7	1137.3	1295.8	1187.0	1193.1	1112.9	1076.7
57.5°	464.6	479.6	557.4	594.6	750.2	1054.3	1346.8	1317.5	1332.5	1213.8	1157.9
60°	296.9	302.6	381.1	455.0	545.9	859.0	1341.9	1442.1	1460.0	1322.7	1233.5
62.5°	185.4	191.6	217.2	320.3	386.1	582.3	1246.8	1524.8	1541.3	1400.7	1296.6
63°	168.9	176.0	202.4	292.7	351.8	526.9	1215.3	1533.2	1547.7	1413.7	1305.9
65°	125.8	128.8	142.6	197.5	258.3	330.9	995.2	1503.9	1522.1	1424.8	1309.6
67.5°	109.8	111.0	116.0	130.2	184.7	192.5	579.8	1347.3	1358.6	1383.0	1263.1
70°	100.5	101.2	110.1	111.0	144.8	136.6	212.7	1058.5	1101.3	1298.0	1182.1
72.5°	87.2	88.1	98.5	108.1	112.3	108.6	115.0	714.8	766.5	1108.9	1093.2
75°	72.9	73.9	83.0	95.8	97.7	86.2	94.3	374.5	411.2	813.0	956.3
77.5°	59.8	60.6	68.7	77.6	89.9	66.2	76.6	141.1	174.8	502.3	688.4
80°	41.1	43.1	52.0	60.1	68.7	60.1	57.4	80.8	85.4	243.7	351.8
82.5°	31.3	31.8	40.4	43.8	48.5	59.3	45.1	60.8	64.3	113.5	114.2
85°	21.7	21.2	28.6	30.5	33.7	37.4	37.7	44.3	45.8	65.5	48.0
87.5°	9.8	9.4	15.5	15.0	17.0	18.5	26.8	24.4	24.9	41.1	25.9
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.2	0.2	0.2	0.2
5°	0.5	0.5	0.5	0.7	0.7	1.0	1.2	1.2	1.5	1.7	1.7
7.5°	1.2	1.0	1.0	1.0	1.5	2.2	5.9	25.6	44.8	47.3	48.0
10°	5.4	5.4	3.9	3.2	3.7	40.4	52.2	53.9	54.9	55.4	55.4
12.5°	67.2	75.1	70.2	37.7	40.6	50.2	55.9	57.1	58.6	71.2	73.6
15°	81.7	82.5	83.2	77.3	107.1	79.0	66.0	99.7	101.4	102.2	101.9
17.5°	124.1	126.3	116.7	103.9	113.7	117.7	96.0	105.1	106.9	108.3	108.3
20°	161.0	161.3	151.2	161.8	138.4	143.3	125.1	118.7	152.4	153.9	153.6
22.5°	198.4	201.4	166.7	172.6	182.0	151.9	158.1	140.8	148.2	148.2	148.0
25°	245.7	244.7	228.5	199.7	191.1	179.7	162.3	147.0	167.2	176.8	176.8
27.5°	291.3	277.2	238.1	229.7	219.1	188.6	160.3	168.7	164.0	165.2	165.0
30°	344.0	339.8	304.3	273.5	225.0	183.2	167.7	152.7	160.8	170.4	169.4
32.5°	370.5	359.7	317.4	330.4	235.9	176.5	146.0	143.5	146.0	149.5	149.9
35°	405.5	387.8	346.2	348.6	237.6	154.9	130.0	128.5	142.1	148.5	149.2
37.5°	450.6	429.4	394.4	356.8	223.1	136.6	115.2	123.4	128.0	131.0	130.0
40°	508.4	483.3	457.2	359.0	198.7	117.9	107.1	113.7	118.2	118.9	118.9
42.5°	579.3	544.6	521.7	357.7	166.9	108.1	101.7	106.9	112.5	112.0	111.5
45°	663.0	621.2	574.4	349.4	135.9	102.7	99.0	102.4	106.6	104.9	104.1
47.5°	753.4	708.4	620.9	332.4	115.7	98.7	97.5	97.5	102.2	101.7	101.4
50°	845.0	798.7	669.7	306.3	104.6	95.3	92.6	95.8	101.2	100.2	99.7
52.5°	935.6	894.0	707.6	270.1	97.7	92.3	90.6	94.8	99.7	98.7	98.5
55°	1019.1	992.2	748.2	241.3	90.6	87.2	90.6	94.1	98.0	97.0	97.0
57.5°	1105.2	1097.4	799.0	218.4	84.7	83.2	89.6	92.8	96.0	95.5	95.5
60°	1191.7	1213.3	845.5	194.0	80.0	78.5	87.7	91.3	94.1	93.8	93.8
62.5°	1275.1	1315.3	882.2	165.5	75.6	74.8	85.2	89.4	91.6	92.1	92.1
63°	1288.7	1328.3	887.6	157.1	74.6	74.4	84.7	88.9	90.9	91.6	91.6
65°	1313.8	1360.1	896.2	129.3	70.4	71.6	82.0	87.2	88.4	90.1	89.6
67.5°	1291.1	1329.8	870.6	99.7	65.2	67.7	77.8	83.5	84.7	87.2	85.9
70°	1240.4	1238.0	783.9	81.2	61.3	63.5	73.1	79.3	79.8	82.2	79.8
72.5°	1144.9	1058.2	617.7	68.9	57.4	59.3	68.2	74.1	74.4	75.3	72.9
75°	957.0	823.1	371.3	59.6	52.4	53.9	62.8	67.7	68.4	67.0	65.7
77.5°	653.4	517.5	169.1	52.2	48.0	48.3	56.1	60.6	60.8	57.6	57.6
80°	314.4	242.5	70.4	46.8	43.6	42.6	49.2	52.7	52.4	48.7	47.3
82.5°	99.5	88.6	52.4	40.9	38.9	36.7	42.8	44.3	44.6	44.8	35.9
85°	39.6	41.1	40.6	33.7	32.7	27.8	34.2	36.2	35.5	29.8	25.4
87.5°	20.7	25.4	24.9	22.7	23.4	17.7	23.6	22.7	23.1	15.5	12.1
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)