

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: P239335

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-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-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 3000K, 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: 1458 lumens
Efficiency: N/A
Efficacy: 69.4 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



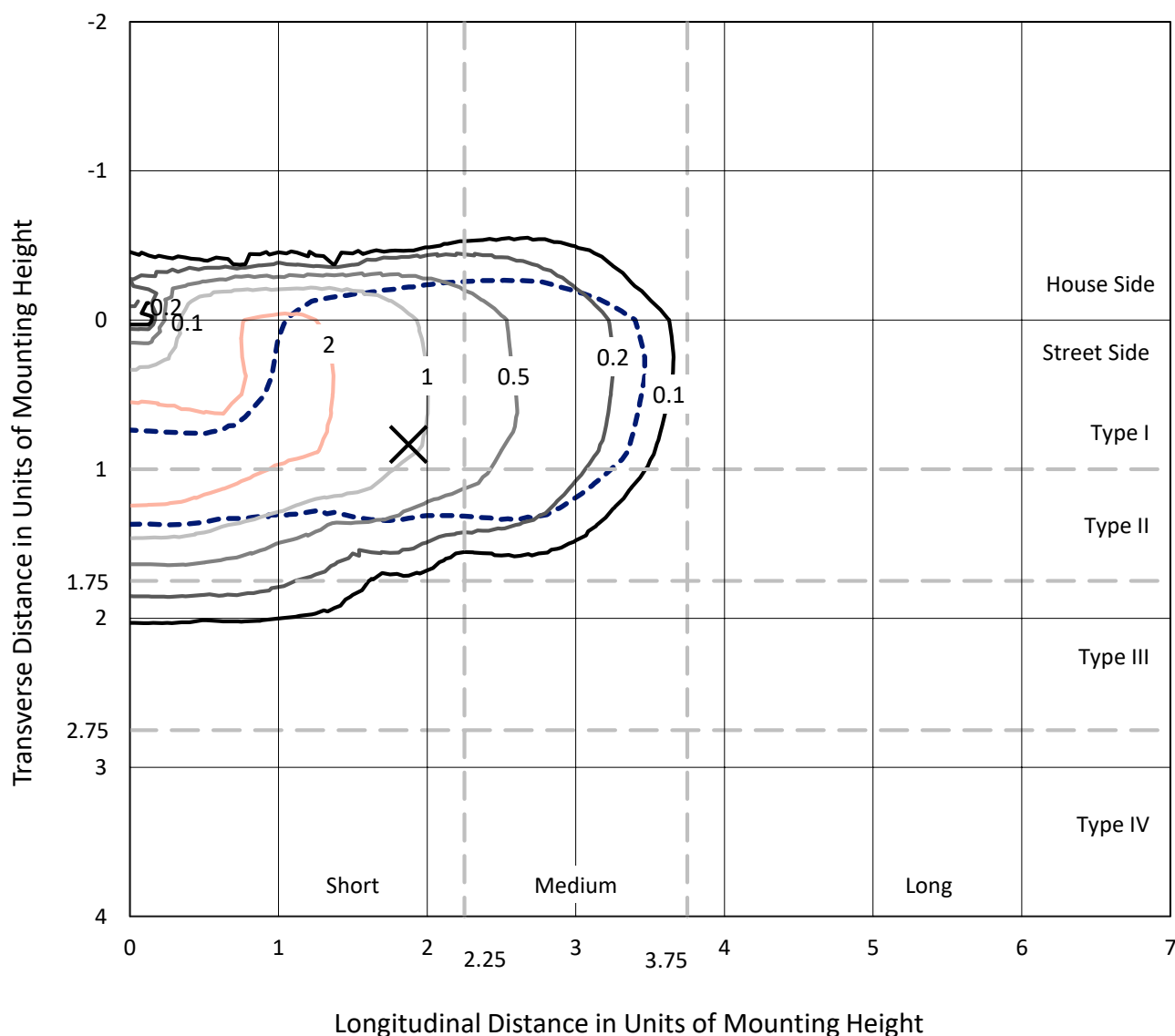
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

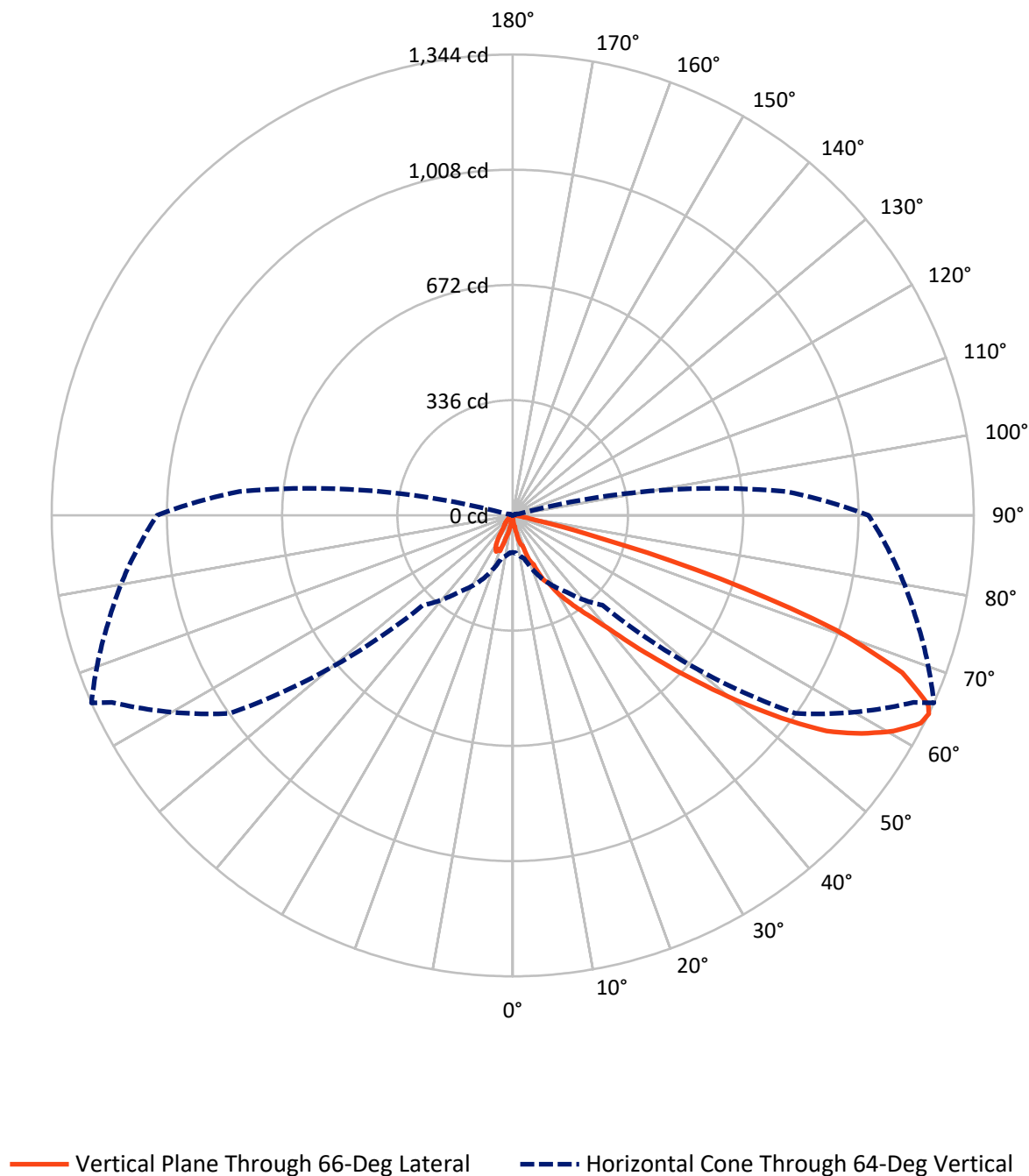


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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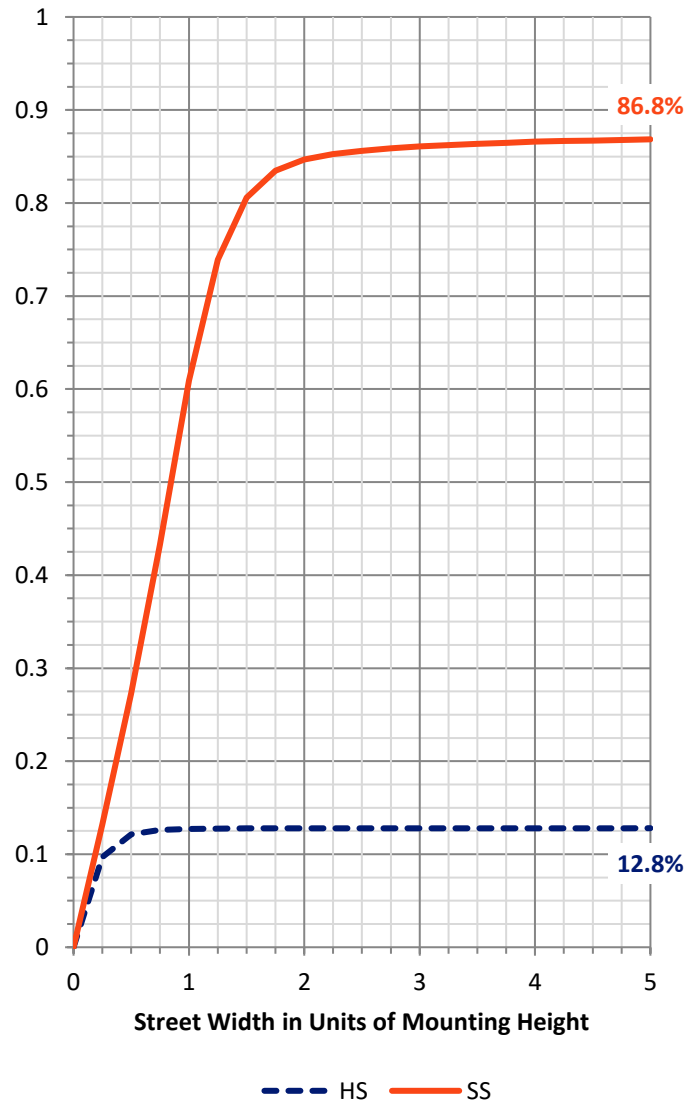
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.9	0.0	188.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1269.1	0.0	1269.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	1458.0	0.0	1458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.1
10°-20°	19.0	1.3
20°-30°	59.1	4.1
30°-40°	148.5	10.2
40°-50°	322.1	22.1
50°-60°	436.1	29.9
60°-70°	342.8	23.5
70°-80°	121.2	8.3
80°-90°	7.3	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°	1458.0	100.0
0°-180°	1458.0	100.0

Coefficient of Utilization



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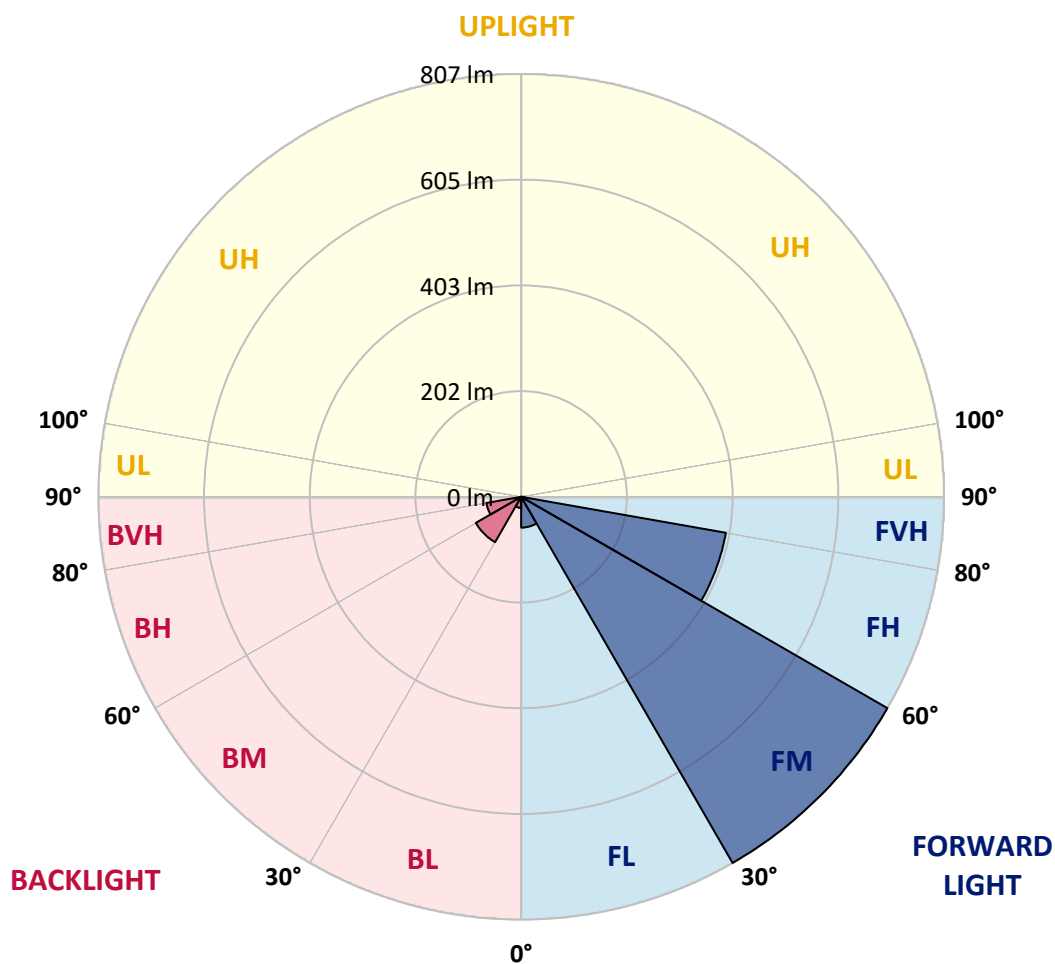
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	58.7	4.0			
FM	(30°-60°)	807.0	55.3			
FH	(60°-80°)	396.6	27.2			G0/660
FVH	(80°-90°)	6.8	0.5			G0/10
BL	(0°-30°)	21.1	1.4	B0/110		
BM	(30°-60°)	99.8	6.8	B0/220		
BH	(60°-80°)	67.5	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°	5.4	5.2	4.4	3.4	1.2	0.7	0.0	0.0	0.0	0.0	0.0
5°	43.8	44.1	44.3	44.3	44.3	44.1	16.7	1.2	1.0	0.0	0.0
7.5°	42.6	42.8	42.8	42.8	43.1	43.1	43.1	41.6	34.2	0.7	0.0
10°	80.5	80.8	81.3	59.1	44.1	42.3	42.3	34.5	33.2	4.4	1.7
12.5°	79.3	79.5	80.0	80.3	80.8	53.7	44.8	61.6	65.7	85.4	55.9
15°	91.6	95.8	86.4	81.0	81.0	76.1	90.1	87.2	87.4	88.9	57.4
17.5°	119.9	119.7	120.6	121.6	88.9	111.5	117.0	91.3	92.3	103.7	105.4
20°	124.1	124.6	123.4	125.3	147.0	117.2	117.0	139.4	138.4	138.6	124.8
22.5°	168.9	169.4	171.1	142.1	153.6	145.0	152.7	155.6	155.6	145.8	147.0
25°	181.7	180.7	182.4	179.7	181.0	175.3	165.0	198.7	208.1	198.9	198.0
27.5°	252.4	250.2	245.0	200.4	197.0	186.1	217.4	222.8	223.1	221.3	229.5
30°	298.9	299.6	285.4	261.2	219.1	214.5	240.3	260.3	267.1	289.8	282.9
32.5°	445.9	436.8	396.2	310.2	270.6	252.4	267.4	305.8	301.1	316.1	316.1
35°	583.0	567.0	505.2	418.1	316.6	281.2	317.6	329.4	338.5	351.4	355.8
37.5°	719.9	713.5	649.0	530.6	408.0	328.7	358.5	381.1	380.2	396.9	405.5
40°	841.6	833.4	790.8	671.2	516.8	400.6	416.1	438.5	436.8	468.6	480.4
42.5°	932.2	926.8	898.9	777.8	651.2	522.7	502.3	511.9	518.0	552.0	564.1
45°	981.7	972.1	963.9	862.5	768.2	669.2	616.3	604.7	612.1	645.6	654.0
47.5°	971.1	959.3	970.8	913.0	871.1	797.2	766.5	727.8	722.4	765.5	749.7
50°	888.3	881.0	916.9	913.0	930.2	903.4	936.4	857.3	848.7	872.8	845.3
52.5°	741.9	741.9	797.5	833.9	929.2	979.4	1084.6	995.5	981.4	977.0	917.9
55°	591.2	595.1	647.3	700.0	848.2	999.9	1208.4	1122.3	1109.9	1051.3	972.6
57.5°	427.7	432.1	506.7	550.8	695.6	930.0	1255.7	1204.2	1199.3	1110.9	1023.0
60°	250.6	261.2	340.3	414.4	502.3	748.7	1237.0	1260.6	1276.4	1158.9	1060.0
62.5°	147.7	152.2	179.7	280.9	347.2	509.4	1134.6	1288.7	1334.5	1199.6	1088.8
64°	107.8	110.1	129.8	203.4	271.8	370.1	1005.8	1288.7	1343.6	1221.5	1096.6
65°	88.1	89.1	102.9	162.7	230.0	283.1	884.9	1277.9	1331.5	1232.3	1094.9
67.5°	71.6	72.4	75.8	93.1	158.3	155.6	523.2	1182.1	1224.4	1244.1	1068.3
70°	64.5	65.2	71.2	72.6	117.0	103.7	168.7	971.6	1000.1	1183.1	1011.7
72.5°	49.0	51.0	61.6	70.7	81.0	77.6	80.8	599.0	632.3	900.9	863.2
75°	33.5	35.5	45.8	60.1	62.5	58.4	60.8	230.0	257.5	468.1	520.7
77.5°	21.4	21.7	28.6	43.6	55.9	39.9	46.0	64.8	75.3	158.6	162.3
80°	14.0	14.5	17.2	27.8	38.2	33.2	28.3	35.0	35.5	46.8	24.9
82.5°	8.6	8.4	11.3	17.2	23.4	28.1	17.5	22.7	23.6	27.6	10.6
85°	3.7	3.9	7.1	11.1	14.5	13.5	10.8	13.8	14.3	18.2	6.2
87.5°	1.5	1.5	4.2	6.2	6.4	6.4	6.6	7.4	7.4	11.3	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	22.7	32.5	32.5
10°	1.7	1.5	0.0	0.2	0.2	11.3	36.2	36.2	35.5	35.0	34.7
12.5°	55.4	63.8	61.1	26.3	20.4	32.3	34.2	30.3	27.1	25.6	25.1
15°	66.2	66.0	64.3	52.2	73.1	32.7	26.1	31.5	27.1	23.4	23.4
17.5°	110.3	104.6	87.4	70.9	66.2	44.3	26.3	18.0	14.8	13.8	13.8
20°	131.2	128.8	112.5	109.3	60.6	36.4	18.5	12.3	14.0	15.8	15.8
22.5°	161.3	160.0	118.2	104.1	60.3	22.2	14.8	14.8	14.5	13.8	13.8
25°	193.8	195.0	166.7	110.3	41.1	18.5	15.3	12.8	11.3	12.3	12.6
27.5°	236.4	205.3	167.9	101.7	28.1	17.2	13.0	12.3	12.1	11.6	11.6
30°	284.6	278.0	214.9	84.7	21.4	15.5	12.3	10.8	9.6	10.1	10.1
32.5°	317.9	297.4	211.0	64.0	18.5	13.5	10.6	9.1	9.4	9.6	9.4
35°	351.4	328.2	212.7	41.1	16.5	11.1	8.6	8.1	7.9	8.9	8.9
37.5°	398.9	369.6	209.5	25.9	13.8	9.1	7.4	7.1	7.4	7.6	7.6
40°	457.2	423.7	201.9	19.5	11.3	7.4	6.2	5.9	6.4	6.4	6.4
42.5°	527.1	482.8	182.0	17.0	9.6	5.9	4.9	4.9	5.4	5.4	5.4
45°	610.6	555.0	156.6	15.0	8.1	4.9	3.9	4.2	4.4	4.4	4.4
47.5°	702.5	634.3	124.3	13.0	6.9	3.9	3.2	3.2	3.4	3.4	3.4
50°	787.4	699.7	98.0	11.6	5.7	3.2	2.5	2.5	2.5	2.5	2.5
52.5°	849.9	742.8	71.4	10.1	4.9	2.5	1.7	1.7	1.7	1.7	1.7
55°	900.9	771.4	51.7	8.6	3.9	2.0	1.2	1.0	1.2	1.0	1.0
57.5°	945.7	789.4	37.2	7.1	3.2	1.2	0.5	0.5	0.5	0.5	0.5
60°	986.3	799.0	27.6	5.9	2.7	0.7	0.5	0.2	0.2	0.0	0.0
62.5°	1023.3	802.4	20.9	4.7	2.2	0.5	0.2	0.0	0.0	0.0	0.0
64°	1036.8	799.2	18.0	4.2	2.0	0.2	0.2	0.0	0.0	0.0	0.0
65°	1041.0	791.6	16.3	3.7	1.7	0.2	0.2	0.0	0.0	0.0	0.0
67.5°	1028.2	756.9	12.1	3.0	1.5	0.2	0.2	0.0	0.0	0.0	0.0
70°	978.2	691.4	8.9	2.5	1.0	0.0	0.2	0.0	0.0	0.0	0.0
72.5°	800.0	522.0	6.4	2.0	1.0	0.0	0.2	0.0	0.0	0.0	0.0
75°	480.4	220.1	4.7	1.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0
77.5°	145.0	70.9	3.4	1.2	1.2	0.0	0.7	0.2	0.0	0.0	0.0
80°	19.5	10.6	2.0	1.0	1.2	0.0	1.0	0.2	0.0	0.0	0.0
82.5°	7.1	3.4	1.2	1.0	1.2	0.0	1.0	0.7	0.2	0.2	0.0
85°	2.7	2.0	1.0	0.7	1.5	0.0	1.2	0.7	0.2	0.2	0.0
87.5°	1.2	1.0	0.7	0.7	1.5	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)