

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461841

Luminaire Tested: USSL-50-8540-U-T4RE-HSS

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461841
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-8540-U-T4RE-HSS
Description: USSL DISCRETE LED 1 SQUARE 50W 85CRI 4000k FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5045 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

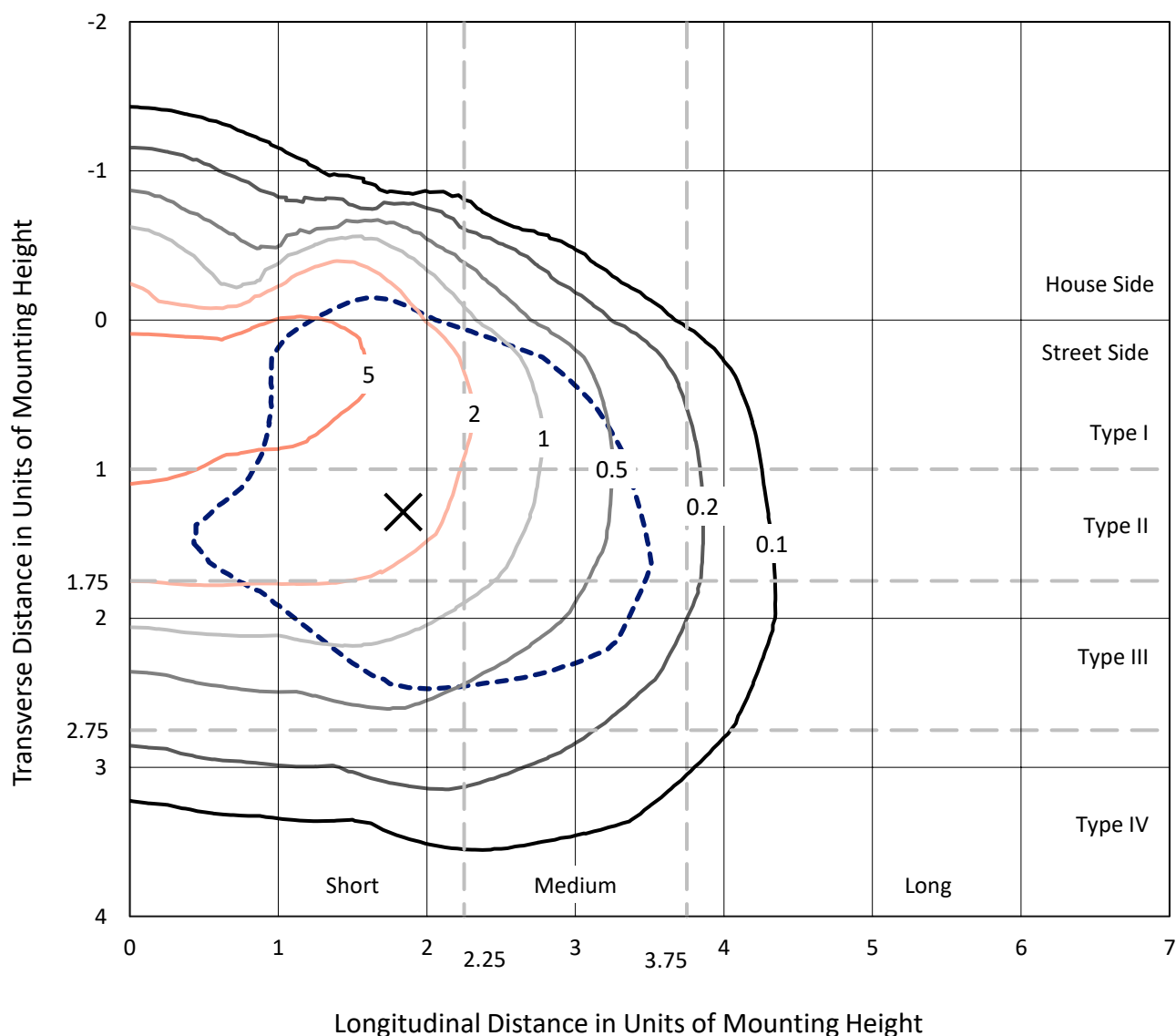
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

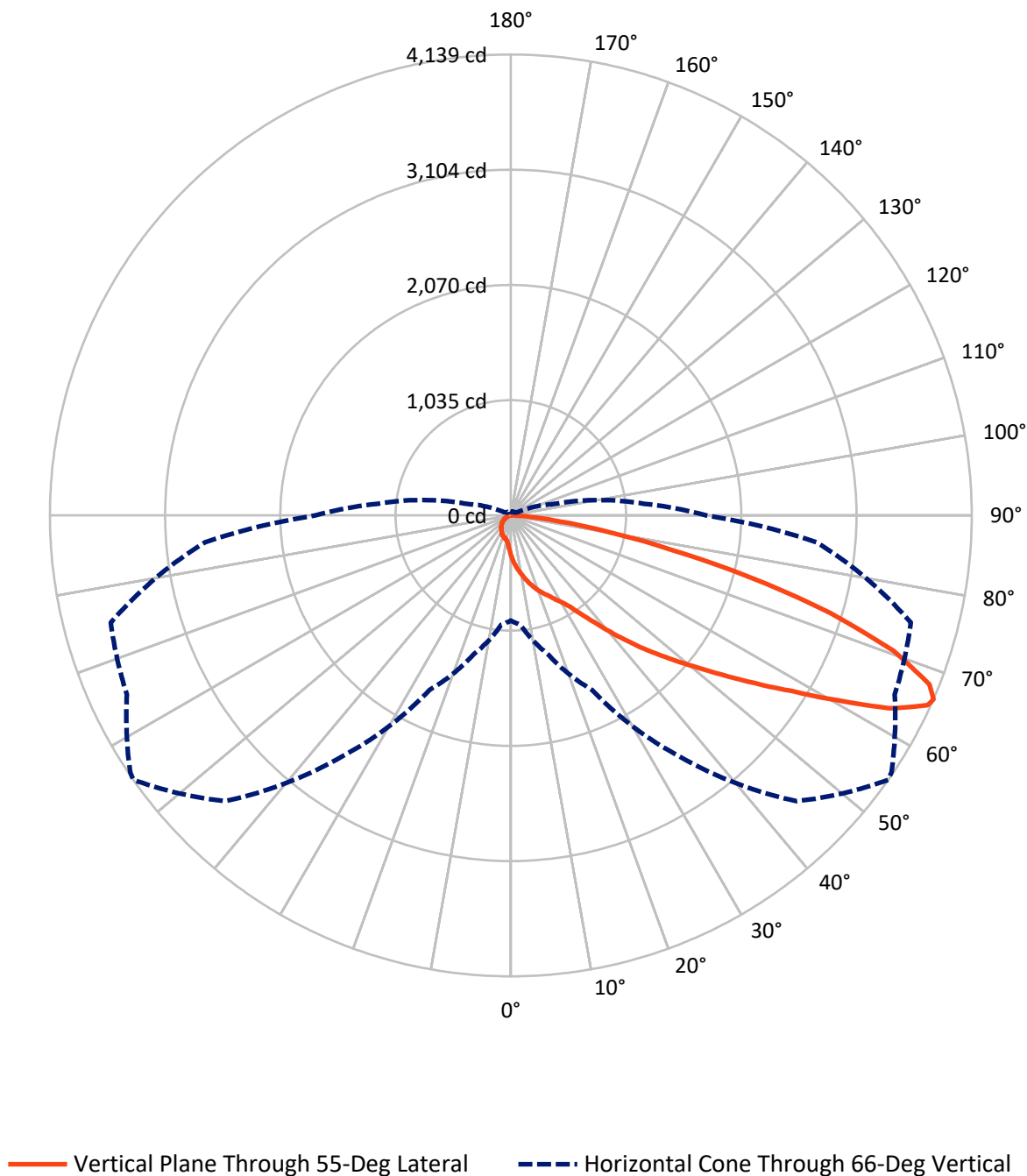


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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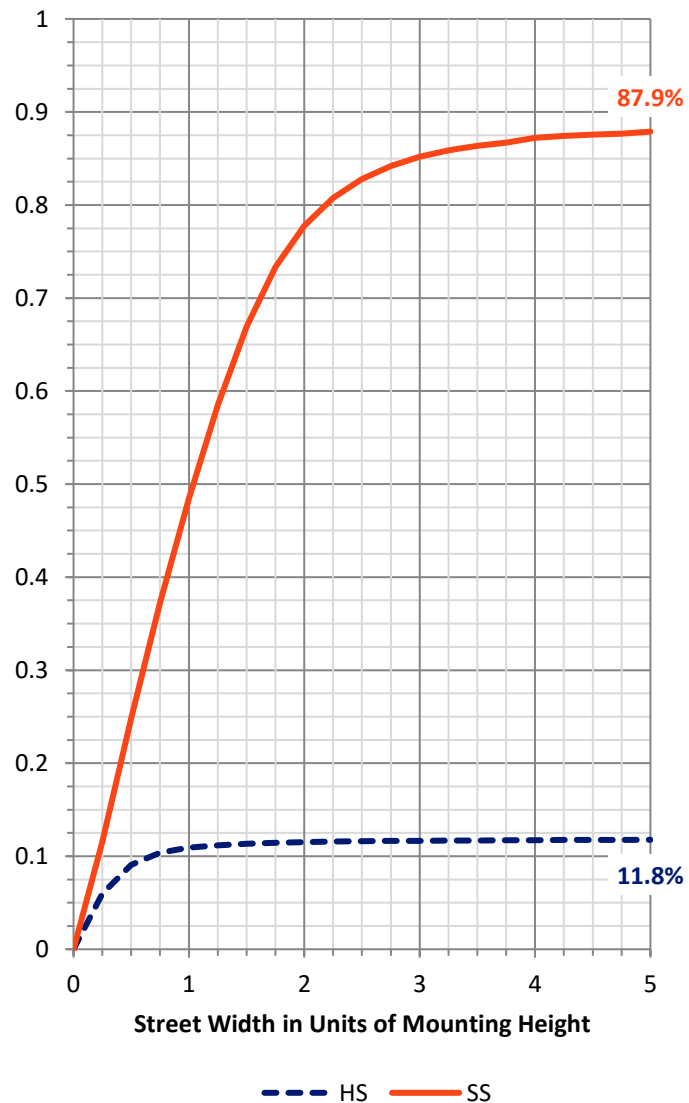
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.0	0.0	599.0
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	4446.0	0.0	4446.0
	% Fixture	88.1	0.0	88.1
Total	Lumens	5045.0	0.0	5045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	0.7
10°-20°	121.0	2.4
20°-30°	224.2	4.4
30°-40°	389.9	7.7
40°-50°	754.0	14.9
50°-60°	1290.1	25.6
60°-70°	1463.5	29.0
70°-80°	698.7	13.8
80°-90°	67.8	1.3
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°	5045.0	100.0
0°-180°	5045.0	100.0

Coefficient of Utilization



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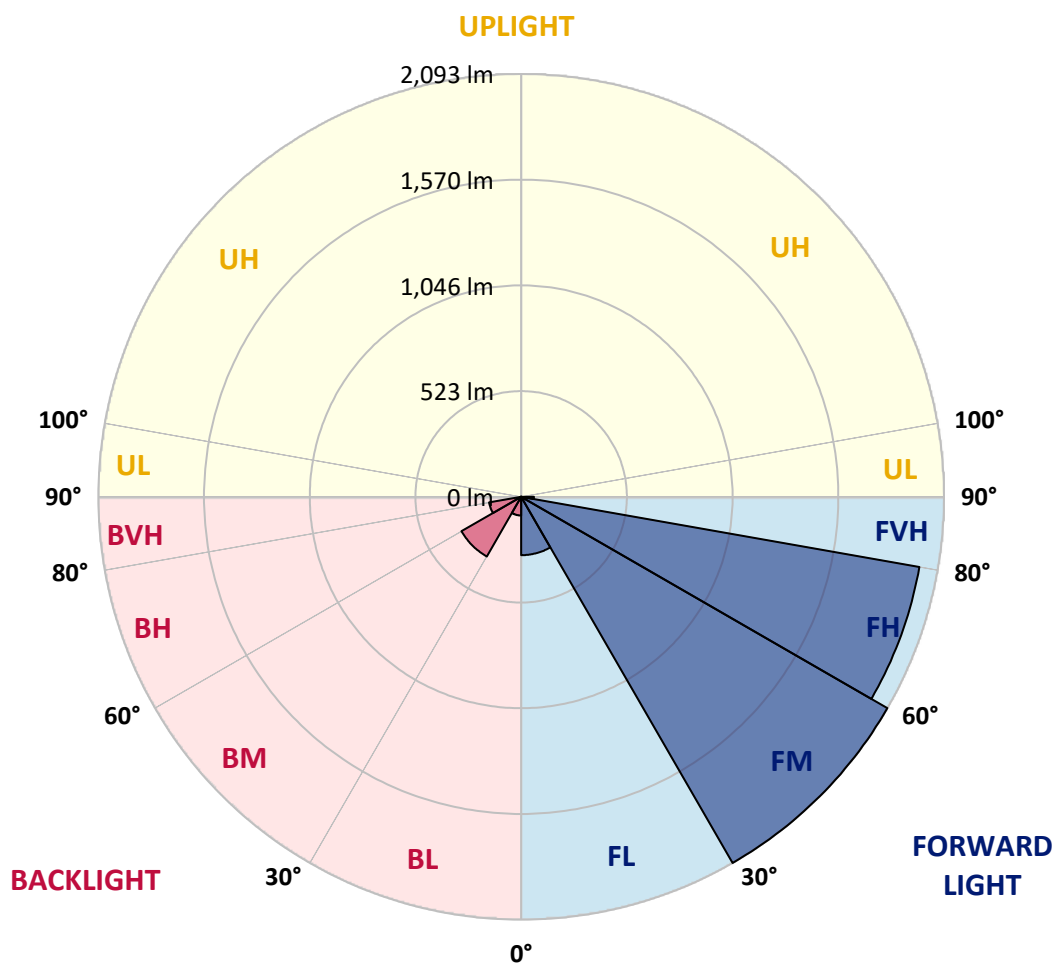
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.8	5.7			
FM	(30°-60°)	2092.7	41.5			
FH	(60°-80°)	2001.1	39.7			G2/5000
FVH	(80°-90°)	63.4	1.3			G1/100
BL	(0°-30°)	92.3	1.8	B0/110		
BM	(30°-60°)	341.2	6.8	B1/1000		
BH	(60°-80°)	161.1	3.2	B1/500		G1/500
BVH	(80°-90°)	4.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7
2.5°	436.5	441.4	437.6	433.7	428.8	418.6	410.2	408.1	397.9	384.2	369.2
5°	508.1	509.2	505.0	495.5	487.4	469.5	453.4	452.0	431.6	405.3	377.2
7.5°	570.9	571.3	564.3	555.8	540.4	521.4	497.2	492.7	463.9	428.1	385.6
10°	629.5	628.8	623.9	614.1	596.2	569.5	539.7	536.5	498.6	452.0	396.9
12.5°	672.3	670.9	669.2	659.0	644.6	620.4	585.7	580.4	537.6	477.2	408.1
15°	701.8	700.4	700.1	695.5	685.0	668.5	633.4	629.5	579.7	510.2	422.1
17.5°	721.1	721.1	721.8	720.4	715.5	703.2	678.0	675.8	626.7	542.5	439.3
20°	742.9	741.8	744.3	745.0	742.2	736.2	722.9	719.7	674.1	585.3	459.0
22.5°	771.3	770.2	771.3	773.0	773.0	769.2	762.2	760.4	729.2	635.1	483.9
25°	806.0	805.0	806.0	807.8	808.1	810.2	802.9	803.2	781.5	688.5	514.4
27.5°	849.5	849.5	848.5	849.2	852.7	855.5	854.1	853.4	833.4	754.1	549.9
30°	900.4	898.7	900.4	899.0	901.5	903.6	903.9	905.3	894.5	822.2	600.1
32.5°	952.7	952.4	960.1	963.2	964.3	972.7	978.0	982.9	979.0	915.2	671.3
35°	1021.8	1020.4	1028.2	1038.7	1048.2	1061.5	1089.6	1085.0	1107.1	1079.0	789.5
37.5°	1107.8	1105.0	1115.2	1128.9	1145.4	1171.7	1216.6	1218.3	1276.2	1309.9	1005.3
40°	1230.3	1225.7	1227.5	1259.8	1279.1	1309.6	1374.9	1377.7	1485.4	1574.5	1264.0
42.5°	1351.7	1348.5	1356.6	1362.2	1384.3	1455.2	1546.1	1547.1	1708.2	1845.4	1557.7
45°	1488.5	1486.1	1485.4	1486.8	1492.4	1584.3	1730.7	1743.7	1926.8	2120.2	1863.7
47.5°	1636.6	1626.5	1630.7	1627.5	1630.7	1728.6	1920.5	1924.4	2158.1	2378.1	2158.1
50°	1767.9	1767.5	1774.2	1780.9	1791.4	1914.5	2132.5	2160.5	2365.5	2633.2	2444.8
52.5°	1871.7	1871.4	1912.8	1940.2	1969.6	2131.8	2374.9	2394.9	2603.7	2900.2	2740.9
55°	1903.0	1912.4	2016.7	2116.7	2188.6	2396.3	2658.1	2666.2	2851.5	3200.3	3022.0
57.5°	1838.7	1857.7	2037.0	2230.4	2437.7	2741.6	2976.0	2966.6	3131.8	3540.6	3236.1
60°	1668.9	1693.8	1952.8	2254.6	2642.0	3131.8	3368.7	3364.1	3476.4	3834.0	3291.2
62.5°	1396.6	1433.8	1743.3	2127.9	2756.7	3476.1	3815.4	3796.1	3753.3	3944.5	3159.9
65°	1074.1	1104.3	1431.0	1855.6	2702.3	3648.7	4111.2	4100.7	3837.9	3810.1	2891.1
66°	944.6	985.3	1292.4	1729.6	2643.4	3629.1	4139.3	4123.5	3804.5	3718.9	2755.3
67.5°	783.9	827.4	1111.3	1528.9	2516.4	3488.4	4053.3	4058.9	3699.6	3527.0	2505.8
70°	607.4	646.0	894.1	1245.4	2250.4	3000.6	3644.9	3676.4	3394.0	3062.0	2093.9
72.5°	403.2	437.6	600.4	905.0	1873.8	2360.5	2999.2	3053.2	2979.9	2454.2	1617.0
75°	216.9	234.1	327.7	533.0	1343.3	1754.9	2219.5	2274.9	2238.4	1666.5	1013.1
77.5°	137.6	133.0	148.8	240.7	761.8	1260.1	1457.0	1505.4	1374.1	852.7	458.6
80°	99.3	90.9	93.3	123.9	318.3	804.6	855.2	835.2	666.0	299.7	140.7
82.5°	69.5	65.6	63.9	74.4	117.9	414.8	441.8	415.5	234.4	94.0	46.0
85°	45.3	42.1	41.1	44.9	51.2	180.7	176.9	169.1	85.6	42.1	26.0
87.5°	23.5	23.5	23.5	26.0	26.3	62.1	53.3	51.6	28.4	16.8	12.3
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°	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7
2.5°	361.8	354.1	340.7	325.3	311.6	302.1	292.3	285.3	281.8	280.4	280.0
5°	362.1	346.7	317.6	291.3	270.5	259.0	250.2	243.9	241.1	239.0	239.3
7.5°	363.2	340.0	296.9	263.9	242.1	232.3	228.1	227.0	227.4	227.7	227.0
10°	364.6	333.7	277.6	242.1	226.0	221.1	221.4	223.2	223.9	224.6	224.2
12.5°	368.1	327.4	261.1	226.3	217.2	216.5	217.2	219.0	220.0	220.7	221.1
15°	372.3	322.5	245.6	216.2	211.6	211.6	211.9	213.7	215.1	216.2	216.2
17.5°	377.9	317.2	231.6	208.8	206.7	206.0	206.0	207.7	208.8	210.2	209.8
20°	385.6	312.3	219.3	202.8	200.4	199.7	199.7	200.7	202.5	203.5	202.8
22.5°	396.9	309.1	209.1	197.2	194.1	192.6	192.3	193.3	194.8	196.5	196.9
25°	411.3	307.0	200.4	189.8	186.3	184.9	184.2	184.9	186.7	188.8	188.8
27.5°	430.2	308.8	192.3	182.5	177.6	175.1	174.4	175.5	178.3	181.1	181.1
30°	457.2	316.2	185.6	174.0	167.4	163.5	161.8	163.2	167.4	171.9	172.6
32.5°	496.9	331.6	181.8	167.4	158.6	151.9	147.4	149.5	154.7	161.1	161.8
35°	575.8	366.0	179.3	161.4	149.5	140.7	134.7	134.0	141.4	148.8	151.2
37.5°	734.4	461.4	179.3	154.7	141.4	130.2	121.4	119.7	126.7	135.8	137.6
40°	943.6	614.4	208.4	148.8	133.7	120.0	108.8	106.3	110.9	120.7	122.8
42.5°	1180.1	806.4	276.5	144.9	126.0	110.5	98.3	95.1	98.6	105.3	107.0
45°	1453.1	1028.2	393.4	148.4	118.6	100.7	88.4	84.6	87.4	90.2	90.9
47.5°	1715.6	1256.9	553.7	162.5	111.6	91.6	79.3	76.8	77.2	77.6	77.2
50°	1973.5	1491.4	750.9	193.3	103.5	83.2	72.3	68.8	68.4	67.4	67.0
52.5°	2231.4	1733.8	958.3	227.0	95.4	75.4	66.0	62.1	60.4	59.3	60.0
55°	2472.5	1971.0	1152.4	239.0	86.7	68.4	60.0	55.4	53.3	51.9	52.3
57.5°	2589.3	2105.8	1235.9	216.2	77.2	62.1	54.4	49.5	47.4	46.3	46.3
60°	2542.7	2043.7	1109.2	154.7	68.4	55.4	48.8	44.2	42.5	41.4	41.4
62.5°	2284.4	1752.8	817.3	102.8	59.0	48.8	43.5	40.0	38.2	37.5	37.5
65°	1917.7	1367.8	490.6	74.4	50.2	43.5	40.0	36.5	34.7	33.3	33.3
66°	1752.1	1200.5	388.8	67.7	47.0	41.4	38.6	35.4	33.0	31.6	31.6
67.5°	1490.7	971.3	251.2	59.3	42.5	39.0	36.5	33.3	30.9	28.8	28.8
70°	1132.0	659.7	113.3	47.0	36.5	35.4	32.6	28.8	27.0	25.3	24.9
72.5°	815.9	423.5	57.2	36.8	30.9	31.2	27.0	24.9	22.5	20.7	20.7
75°	518.6	229.1	36.1	28.4	26.3	26.7	22.5	20.4	18.6	17.2	17.5
77.5°	221.8	89.1	26.3	22.1	22.1	22.5	18.9	16.8	15.8	14.4	14.4
80°	69.8	38.2	18.9	16.8	17.9	18.6	15.8	14.7	13.0	10.2	10.5
82.5°	33.0	22.1	13.0	12.6	13.0	14.7	12.3	10.9	9.5	4.2	3.2
85°	21.4	11.2	7.0	6.7	7.4	8.8	8.4	6.0	4.2	1.4	1.4
87.5°	9.5	4.6	2.8	2.8	2.8	3.2	2.8	2.1	1.8	0.7	0.7
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)