

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: P639049

Luminaire Tested: **USSL-M-C097-D-U-T4-BZ**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-C097-D-U-T4-BZ
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50575 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 346
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: 24 FT

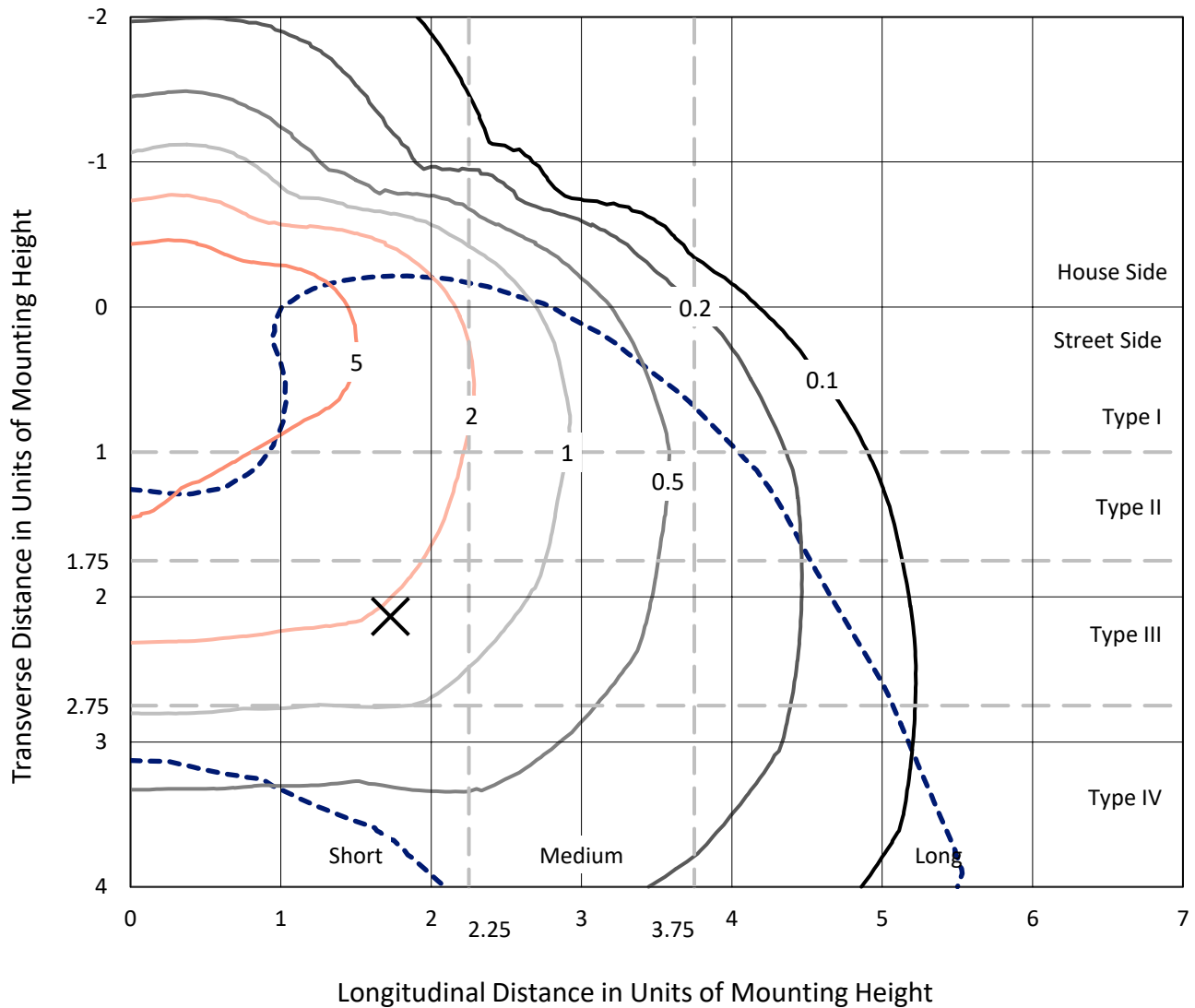


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

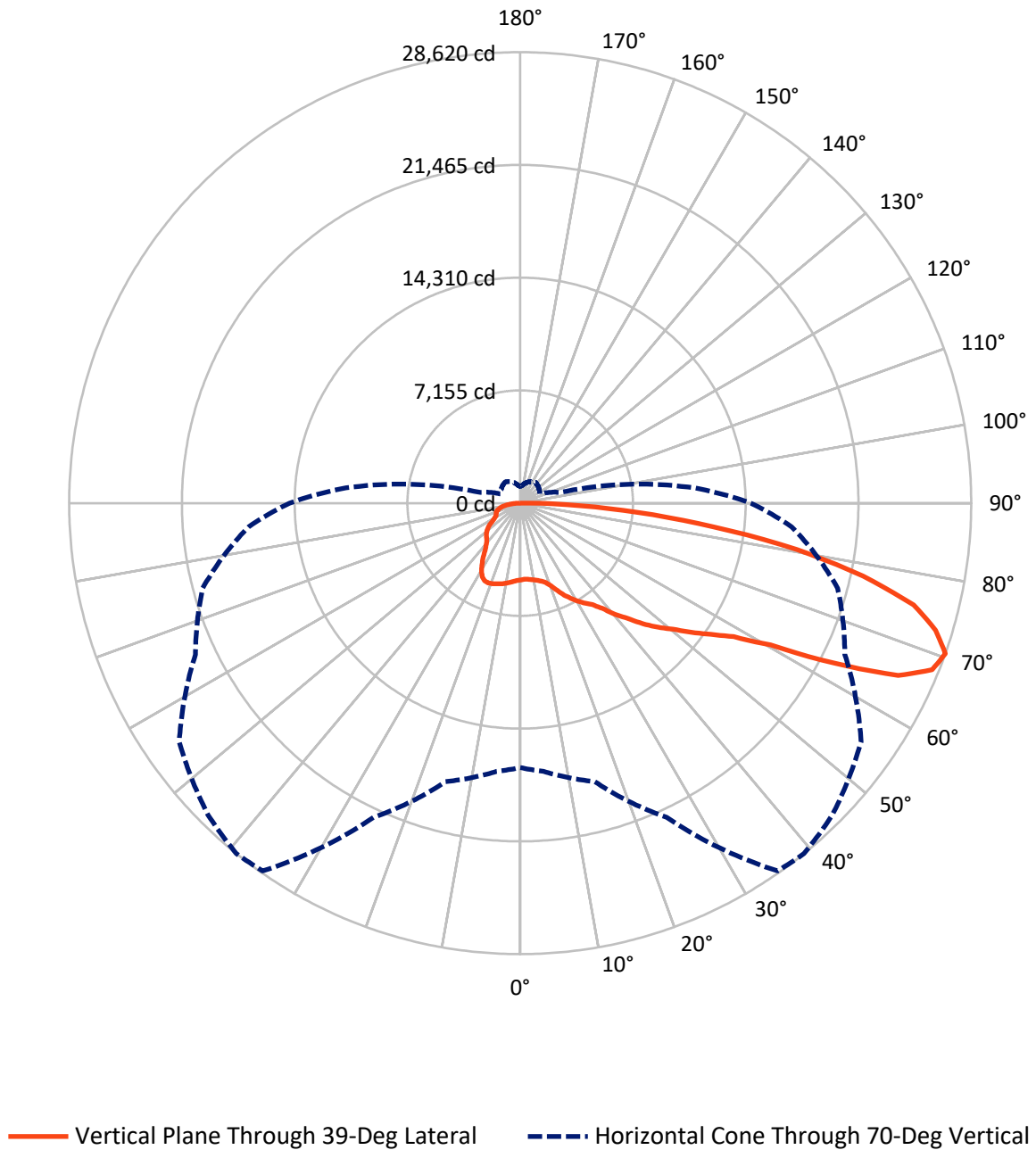


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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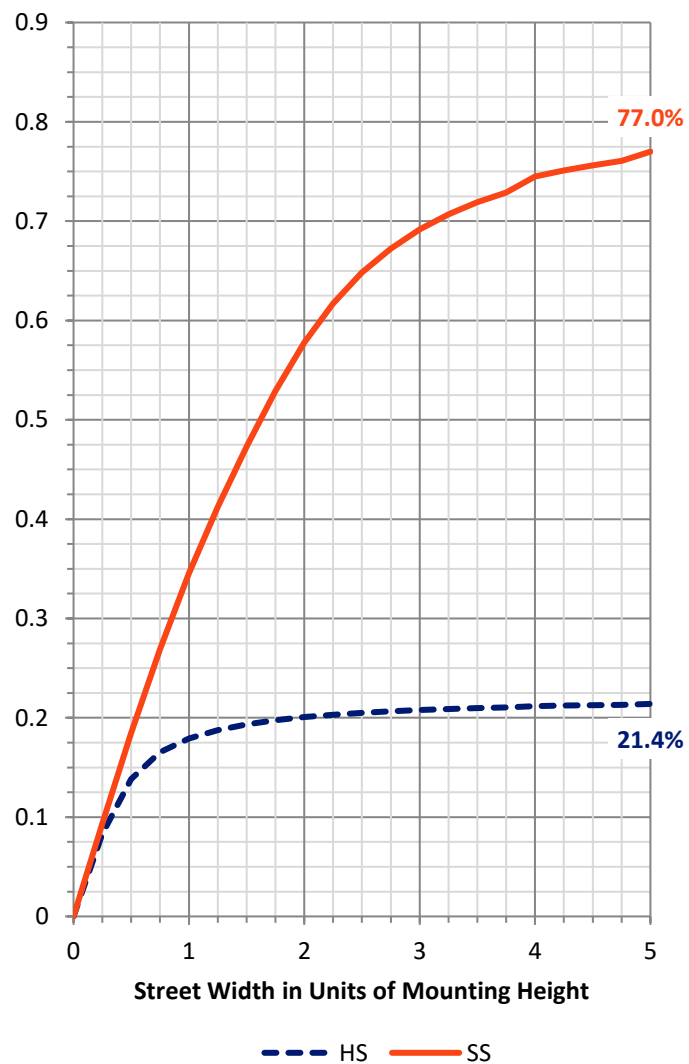
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10983.1	0.0	10983.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	39591.9	0.0	39591.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	50575.0	0.0	50575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.6	0.9
10°-20°	1497.8	3.0
20°-30°	2797.1	5.5
30°-40°	4371.9	8.6
40°-50°	6696.7	13.2
50°-60°	9615.0	19.0
60°-70°	12692.3	25.1
70°-80°	10108.6	20.0
80°-90°	2321.9	4.6
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°	50575.0	100.0
0°-180°	50575.0	100.0

Coefficient of Utilization



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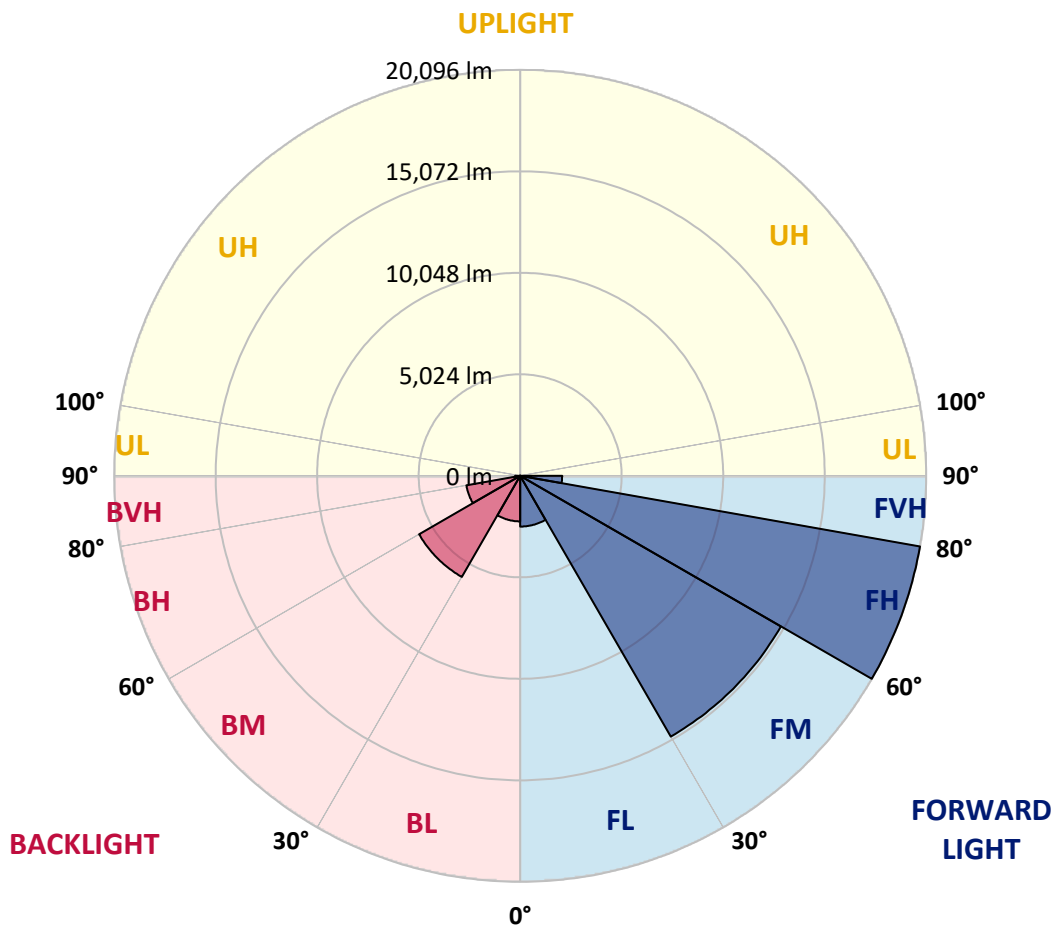
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.3	5.0			
FM	(30°-60°)	14904.6	29.5			
FH	(60°-80°)	20095.9	39.7			G5
FVH	(80°-90°)	2079.0	4.1			G5
BL	(0°-30°)	2256.2	4.5	B3/2500		
BM	(30°-60°)	5779.0	11.4	B4/8500		
BH	(60°-80°)	2705.1	5.3	B4/5000		G4/5000
BVH	(80°-90°)	242.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0
2.5°	4855.0	4853.0	4876.0	4854.0	4851.0	4835.0	4840.0	4858.0	4883.0	4878.0	4894.0
5°	4870.0	4868.0	4891.0	4860.0	4861.0	4852.0	4842.0	4864.0	4888.0	4889.0	4910.0
7.5°	4899.0	4907.0	4927.0	4900.0	4911.0	4896.0	4883.0	4910.0	4926.0	4919.0	4952.0
10°	4923.0	4928.0	4954.0	4941.0	4963.0	4958.0	4957.0	4989.0	5011.0	4990.0	5023.0
12.5°	4953.0	4964.0	4995.0	4993.0	5036.0	5034.0	5045.0	5097.0	5123.0	5104.0	5131.0
15°	5025.0	5036.0	5068.0	5076.0	5133.0	5144.0	5168.0	5235.0	5280.0	5261.0	5297.0
17.5°	5223.0	5217.0	5247.0	5245.0	5296.0	5306.0	5343.0	5431.0	5492.0	5500.0	5542.0
20°	5608.0	5620.0	5637.0	5615.0	5612.0	5603.0	5616.0	5676.0	5760.0	5806.0	5877.0
22.5°	6164.0	6132.0	6143.0	6066.0	6021.0	6016.0	5993.0	6021.0	6105.0	6168.0	6271.0
25°	6645.0	6649.0	6638.0	6541.0	6473.0	6461.0	6443.0	6465.0	6522.0	6604.0	6732.0
27.5°	7044.0	7031.0	7032.0	6922.0	6852.0	6830.0	6822.0	6945.0	7058.0	7114.0	7304.0
30°	7400.0	7368.0	7354.0	7260.0	7228.0	7213.0	7209.0	7410.0	7621.0	7775.0	8022.0
32.5°	8029.0	7998.0	7855.0	7625.0	7571.0	7567.0	7577.0	7845.0	8212.0	8495.1	8892.1
35°	8682.1	8666.1	8589.1	8303.0	7981.0	7918.0	7963.0	8314.0	8811.1	9392.1	9890.1
37.5°	9472.1	9443.1	9345.1	8992.1	8632.1	8466.1	8395.1	8767.1	9447.1	10524.1	11135.1
40°	10445.1	10351.1	10191.1	9723.1	9421.1	9268.1	8994.1	9311.1	10232.1	11869.1	12439.1
42.5°	11223.1	11197.1	10985.1	10561.1	10180.1	9995.1	9792.1	9948.1	11184.1	13246.1	13733.1
45°	11842.1	11867.1	11747.1	11375.1	11023.1	10914.1	10791.1	11029.1	12307.1	14729.1	14875.1
47.5°	12442.1	12461.1	12314.1	12051.1	11838.1	11765.1	11811.1	12329.1	13611.1	15981.1	15833.1
50°	13343.1	13269.1	12780.1	12645.1	12527.1	12562.1	12852.1	13487.1	15113.1	17192.1	16725.1
52.5°	14854.1	14574.1	13693.1	13414.1	13480.1	13607.1	13891.1	14671.1	16755.1	18143.1	17459.1
55°	16983.1	16544.1	15513.1	14576.1	14502.1	14692.1	15022.1	15899.1	18175.1	19018.1	18061.1
57.5°	18501.1	18484.1	17907.1	17049.1	15949.1	15975.1	16274.1	17071.1	19329.1	19891.1	18532.1
60°	19954.1	20052.1	20333.1	19814.1	18717.1	18259.1	17919.1	18254.1	20356.1	20586.1	18866.1
62.5°	21123.1	21197.1	22268.1	22429.1	22876.1	22380.1	20856.1	19779.1	21292.1	21020.1	18970.1
65°	21085.1	21072.1	22563.1	23705.1	25989.2	26365.2	25389.2	21824.1	22438.1	21243.1	18841.1
67.5°	19388.1	19343.1	20797.1	23561.1	27956.2	28198.2	27631.2	25032.1	22816.1	21211.1	18387.1
70°	16781.1	17088.1	18293.1	21991.1	28492.2	28620.2	28002.2	26409.2	22730.1	20858.1	17296.1
72.5°	14021.1	14115.1	15522.1	19289.1	27530.2	27569.2	27143.2	26100.2	22158.1	20030.1	15134.1
75°	11032.1	10994.1	12312.1	15575.1	25109.1	25791.2	25609.2	25080.1	20903.1	17675.1	11571.1
77.5°	7747.0	7696.0	9039.1	12023.1	20725.1	22253.1	23267.1	22810.1	17839.1	13267.1	6385.0
80°	3896.0	4213.0	5585.0	8585.1	16154.1	17790.1	18868.1	18090.1	12897.1	7372.0	1917.0
82.5°	1408.0	1468.0	2683.0	5300.0	11326.1	12374.1	13362.1	12095.1	6375.0	1847.0	396.0
85°	676.0	704.0	1099.0	2734.0	6920.0	7464.0	7854.0	5175.0	1189.0	354.0	224.0
87.5°	319.0	335.0	500.0	1090.0	2866.0	2976.0	2794.0	1505.0	208.0	134.0	93.0
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°	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0	4876.0
2.5°	4888.0	4896.0	4909.0	4892.0	4883.0	4891.0	4910.0	4908.0	4920.0	4925.0	4915.0
5°	4908.0	4919.0	4939.0	4935.0	4934.0	4955.0	4980.0	4991.0	5006.0	5008.0	4994.0
7.5°	4950.0	4965.0	4989.0	4999.0	5014.0	5034.0	5069.0	5072.0	5092.0	5088.0	5079.0
10°	5029.0	5049.0	5087.0	5105.0	5109.0	5125.0	5151.0	5146.0	5152.0	5149.0	5135.0
12.5°	5138.0	5162.0	5216.0	5250.0	5239.0	5228.0	5215.0	5190.0	5178.0	5169.0	5156.0
15°	5307.0	5347.0	5411.0	5413.0	5370.0	5313.0	5271.0	5196.0	5149.0	5121.0	5099.0
17.5°	5578.0	5612.0	5703.0	5642.0	5540.0	5425.0	5299.0	5142.0	5016.0	4936.0	4903.0
20°	5906.0	5973.0	6059.0	5930.0	5758.0	5550.0	5323.0	5055.0	4789.0	4615.0	4579.0
22.5°	6332.0	6411.0	6409.0	6201.0	5957.0	5645.0	5328.0	4931.0	4510.0	4178.0	4128.0
25°	6834.0	6868.0	6752.0	6426.0	6070.0	5668.0	5254.0	4724.0	4111.0	3721.0	3693.0
27.5°	7332.0	7333.0	7057.0	6593.0	6078.0	5586.0	5069.0	4364.0	3696.0	3396.0	3363.0
30°	8000.0	7843.0	7339.0	6668.0	5990.0	5382.0	4706.0	3907.0	3347.0	3082.0	3050.0
32.5°	8731.1	8440.1	7582.0	6646.0	5800.0	5051.0	4231.0	3514.0	3067.0	2803.0	2777.0
35°	9630.1	9148.1	7832.0	6546.0	5450.0	4620.0	3781.0	3221.0	2843.0	2552.0	2503.0
37.5°	10740.1	10102.1	8153.0	6375.0	5065.0	4080.0	3405.0	2966.0	2629.0	2300.0	2230.0
40°	11966.1	11102.1	8568.1	6196.0	4629.0	3696.0	3135.0	2816.0	2493.0	2133.0	2066.0
42.5°	13115.1	12168.1	9101.1	6004.0	4231.0	3386.0	3020.0	2797.0	2455.0	2086.0	2007.0
45°	14207.1	13094.1	9645.1	5756.0	3815.0	3148.0	2972.0	2769.0	2422.0	2054.0	1971.0
47.5°	15074.1	13909.1	10140.1	5496.0	3448.0	2977.0	2900.0	2670.0	2344.0	1997.0	1922.0
50°	15871.1	14543.1	10523.1	5262.0	3115.0	2843.0	2765.0	2509.0	2196.0	1917.0	1852.0
52.5°	16490.1	15045.1	10738.1	5235.0	2792.0	2669.0	2576.0	2324.0	2060.0	1806.0	1743.0
55°	16922.1	15394.1	10766.1	5104.0	2513.0	2443.0	2337.0	2163.0	1988.0	1768.0	1714.0
57.5°	17200.1	15528.1	10580.1	4314.0	2225.0	2136.0	2091.0	2047.0	1920.0	1696.0	1655.0
60°	17344.1	15432.1	10136.1	3175.0	1942.0	1843.0	1918.0	1917.0	1815.0	1592.0	1558.0
62.5°	17290.1	15149.1	9248.1	2278.0	1684.0	1691.0	1774.0	1760.0	1614.0	1405.0	1366.0
65°	16898.1	14515.1	7738.0	1646.0	1564.0	1645.0	1710.0	1639.0	1453.0	1253.0	1228.0
67.5°	16054.1	13293.1	5406.0	1459.0	1533.0	1624.0	1688.0	1579.0	1387.0	1177.0	1154.0
70°	14640.1	11103.1	2615.0	1383.0	1476.0	1581.0	1642.0	1518.0	1328.0	1107.0	1072.0
72.5°	11996.1	7723.0	1084.0	1301.0	1406.0	1481.0	1572.0	1451.0	1235.0	991.0	963.0
75°	7523.0	3742.0	900.0	1206.0	1298.0	1372.0	1463.0	1322.0	1073.0	767.0	743.0
77.5°	3276.0	881.0	848.0	1087.0	1204.0	1250.0	1327.0	1258.0	983.0	674.0	656.0
80°	634.0	553.0	804.0	903.0	1036.0	1099.0	1139.0	1094.0	828.0	514.0	429.0
82.5°	362.0	473.0	700.0	673.0	819.0	812.0	888.0	895.0	661.0	250.0	224.0
85°	246.0	398.0	470.0	416.0	479.0	492.0	643.0	626.0	450.0	150.0	121.0
87.5°	116.0	121.0	156.0	142.0	189.0	274.0	372.0	333.0	197.0	85.0	72.0
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)