

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: P639409

Luminaire Tested: **USSL-M-PA6D-730-U-T4W**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-730-U-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61236 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 544
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

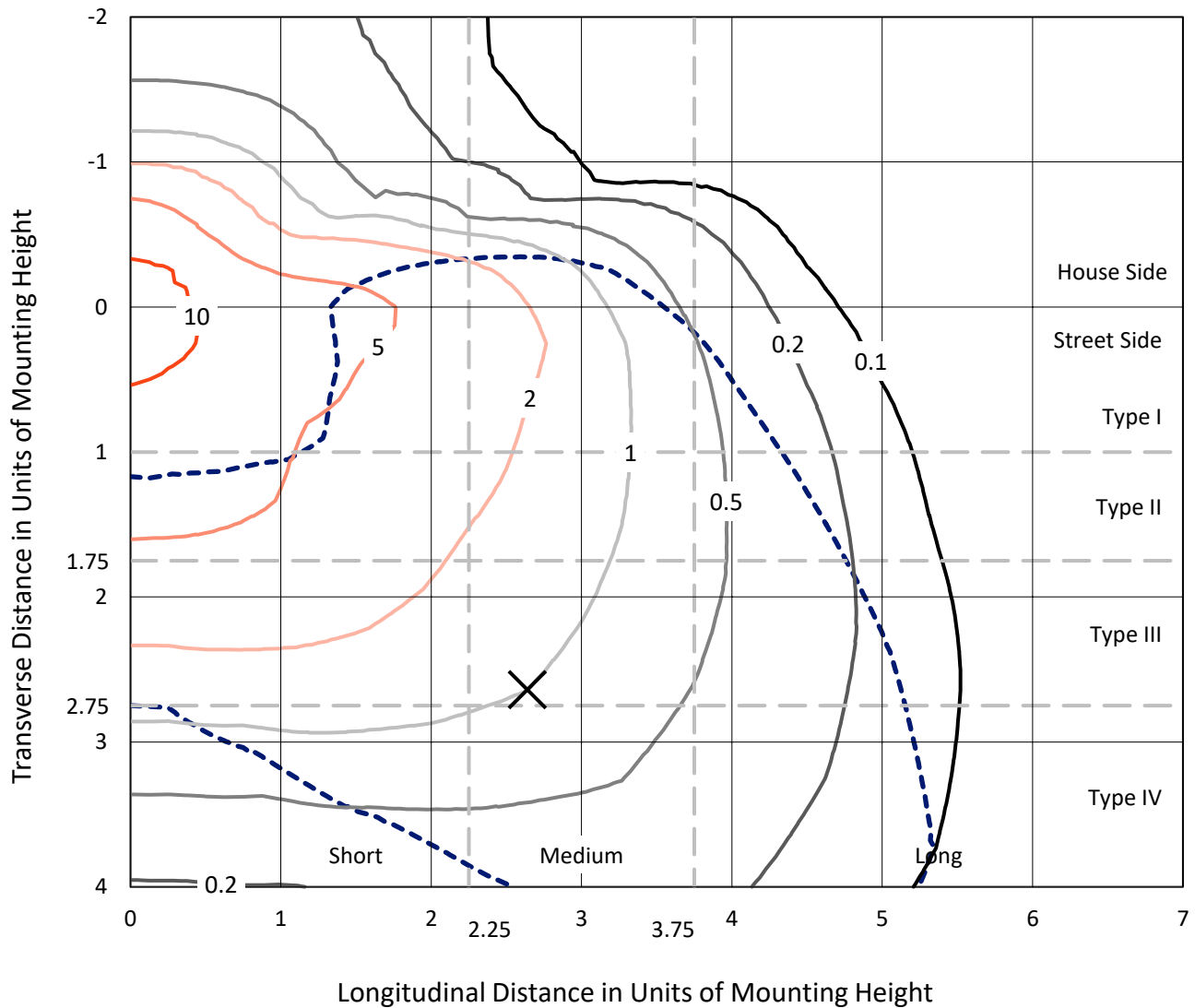


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Iso-Footcandle Lines of Horizontal Illumination

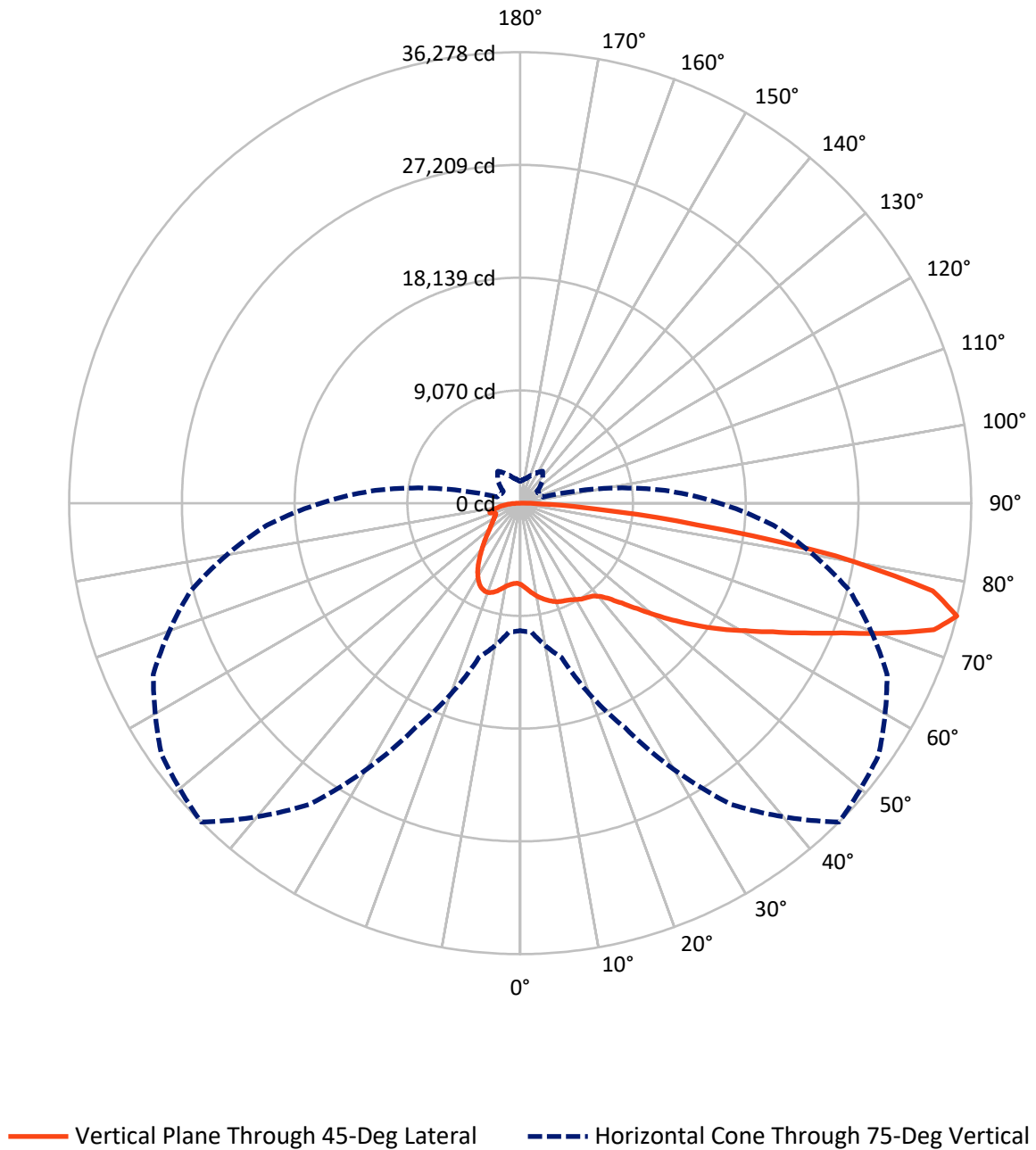
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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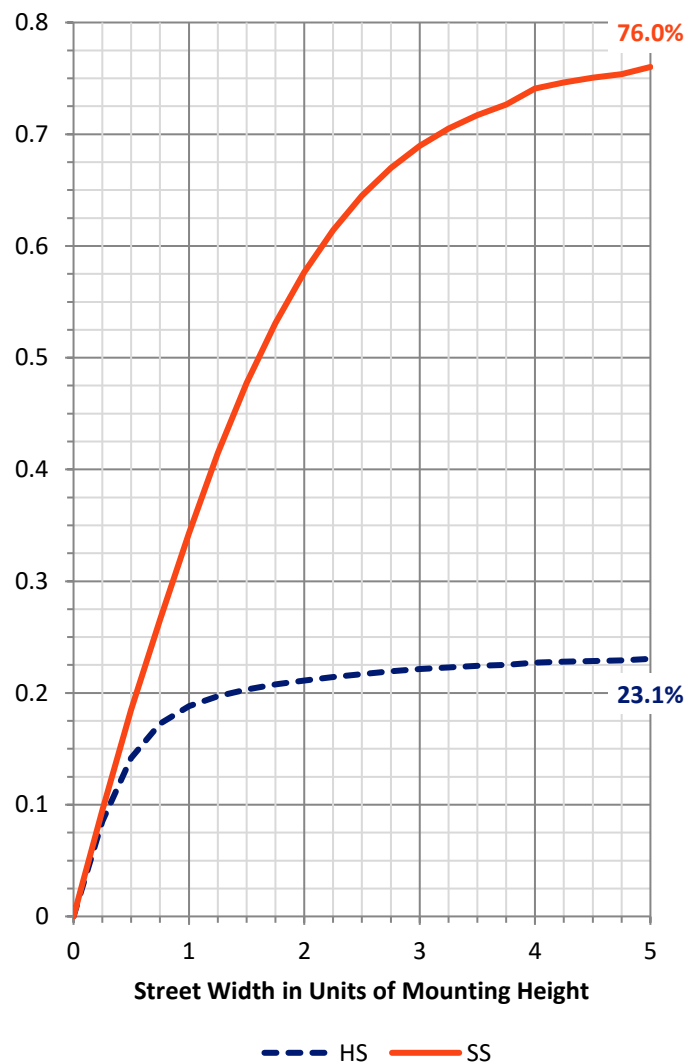
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14409.9	0.0	14409.9
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	46826.1	0.0	46826.1
	% Fixture	76.5	0.0	76.5
Total	Lumens	61236.0	0.0	61236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.4	1.1
10°-20°	2181.0	3.6
20°-30°	3753.8	6.1
30°-40°	5172.1	8.4
40°-50°	7205.1	11.8
50°-60°	10787.1	17.6
60°-70°	15289.8	25.0
70°-80°	13750.3	22.5
80°-90°	2437.3	4.0
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°	61236.0	100.0
0°-180°	61236.0	100.0

Coefficient of Utilization



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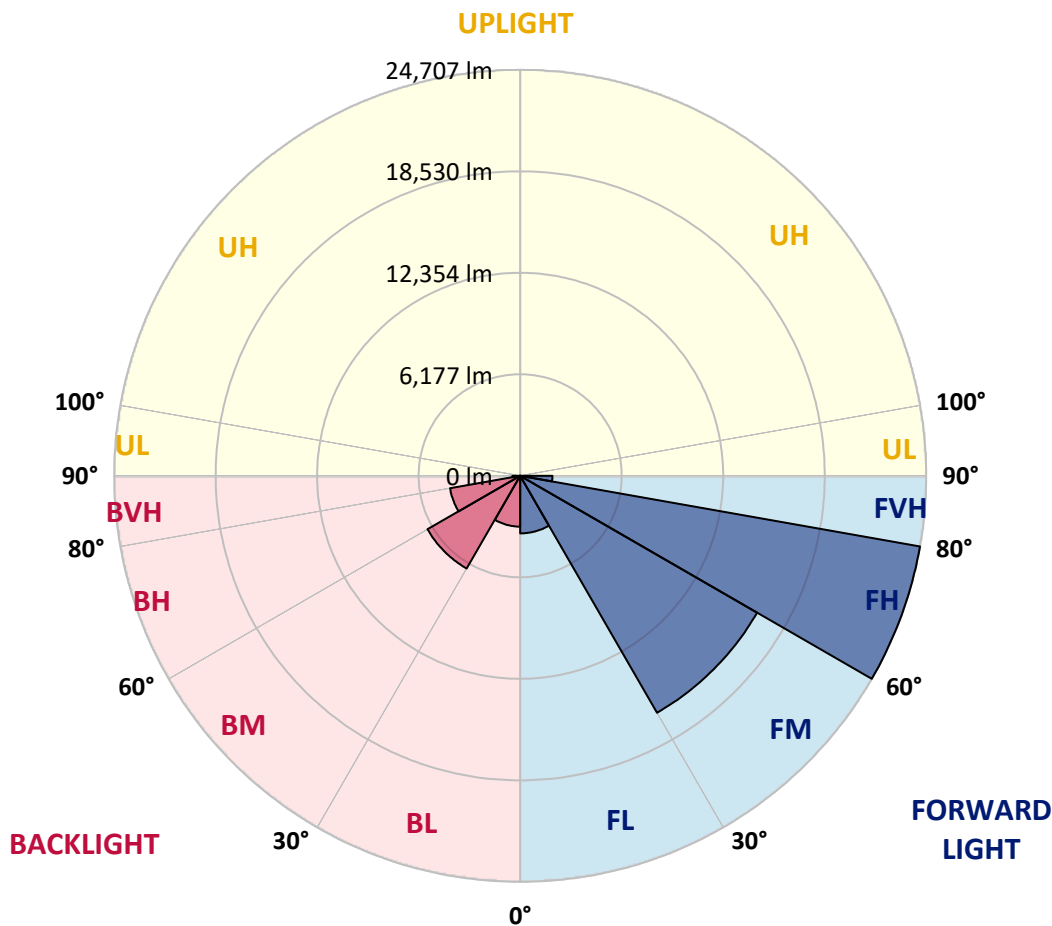
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3502.6	5.7			
FM	(30°-60°)	16652.2	27.2			
FH	(60°-80°)	24707.0	40.3			G5
FVH	(80°-90°)	1964.3	3.2			G5
BL	(0°-30°)	3091.6	5.0	B4/5000		
BM	(30°-60°)	6512.2	10.6	B4/8500		
BH	(60°-80°)	4333.1	7.1	B4/5000		G4/5000
BVH	(80°-90°)	473.0	0.8			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2
2.5°	6907.3	6889.4	6879.0	6824.0	6782.4	6758.7	6702.2	6660.6	6602.6	6558.0	6544.7
5°	7391.7	7357.5	7329.3	7237.2	7139.1	7042.5	6905.8	6786.9	6657.6	6559.5	6526.8
7.5°	7867.3	7840.5	7782.6	7641.4	7495.7	7338.2	7140.6	6965.2	6782.4	6645.7	6593.7
10°	8284.8	8250.7	8151.1	7990.6	7801.9	7629.5	7406.6	7206.0	6994.9	6828.5	6761.6
12.5°	8644.5	8594.0	8467.6	8268.5	8044.1	7867.3	7657.7	7473.5	7241.6	7048.4	6968.2
15°	8944.7	8886.7	8755.9	8497.4	8244.7	8097.6	7914.8	7740.9	7501.7	7277.3	7186.6
17.5°	9163.1	9112.6	8965.5	8662.3	8406.7	8293.8	8146.6	7992.1	7758.8	7510.6	7424.4
20°	9246.3	9185.4	9057.6	8744.0	8516.7	8464.7	8351.7	8220.9	8002.5	7757.3	7663.7
22.5°	9172.0	9121.5	9019.0	8732.2	8562.7	8570.2	8501.8	8414.1	8226.9	7984.7	7904.4
25°	9060.6	9007.1	8929.8	8686.1	8596.9	8663.8	8638.5	8595.4	8457.2	8223.9	8142.2
27.5°	9016.0	8953.6	8894.1	8689.1	8666.8	8799.0	8809.4	8810.9	8695.0	8458.7	8397.8
30°	9145.3	9075.4	8992.2	8776.7	8793.1	8987.8	9051.7	9021.9	8897.1	8684.6	8631.1
32.5°	9539.1	9464.8	9314.7	8986.3	8947.6	9185.4	9262.7	9175.0	9057.6	8888.2	8867.4
35°	10426.3	10311.8	10011.7	9423.2	9148.3	9307.3	9415.7	9351.8	9256.7	9155.7	9179.5
37.5°	11876.7	11719.2	11236.2	10227.1	9527.2	9479.6	9631.2	9632.7	9545.0	9503.4	9567.3
40°	13584.2	13419.2	12916.9	11520.0	10262.8	9843.7	9981.9	10053.3	9974.5	10002.7	10096.4
42.5°	15244.1	15073.2	14713.6	13141.3	11254.0	10497.6	10524.4	10699.7	10621.0	10716.1	10881.0
45°	16574.2	16430.0	16285.9	14713.6	12625.7	11457.6	11265.9	11575.0	11546.8	11732.5	11962.9
47.5°	17513.4	17364.7	17382.6	16208.6	14260.3	12683.6	12220.0	12732.7	12749.0	13157.7	13411.8
50°	18269.8	18125.6	18173.2	17479.2	15905.4	14156.3	13423.7	14099.8	14365.9	14985.5	15290.2
52.5°	19125.7	19002.4	19106.4	18635.3	17638.2	15750.9	14823.6	15752.4	16165.5	17138.9	17449.4
55°	20090.2	19983.2	20311.6	20023.3	19509.1	17421.2	16379.5	17623.3	18139.0	19641.4	20036.7
57.5°	20864.4	20750.0	21444.0	21724.9	21497.5	19136.1	18106.3	19570.1	20093.2	22433.7	22815.7
60°	21757.6	21592.6	22462.0	23335.8	23600.3	20822.8	20050.1	21707.0	22216.8	25462.3	25575.3
62.5°	22301.5	22175.2	23344.7	24771.3	25487.6	22796.3	22271.8	23836.6	24387.9	28593.5	28051.1
65°	21543.6	21606.0	23830.6	25918.6	27199.6	25165.1	24716.3	26093.9	26658.6	31387.3	29718.5
67.5°	19980.2	20099.1	23273.4	26669.0	28950.2	27868.3	27290.2	28471.6	28858.0	33025.0	29999.3
70°	18134.5	18243.0	21487.1	26811.7	30589.3	31314.5	30455.5	31050.0	30558.1	32421.6	27948.5
72.5°	15366.0	15654.3	18158.3	24967.5	31301.1	34808.2	33861.6	33030.9	30461.5	28275.5	23054.9
75°	10259.8	10404.0	12847.1	19913.4	29583.2	36278.0	35222.9	32559.8	27476.0	20443.9	16033.2
77.5°	4534.0	4985.8	6678.4	11674.6	23114.4	33934.4	32317.6	27270.9	19055.9	11234.7	7962.4
80°	1661.4	1758.0	2606.6	4831.2	13407.3	25697.1	23441.3	17390.0	9632.7	4263.5	2975.1
82.5°	928.8	973.4	1417.7	2211.3	6018.6	14340.6	13041.8	7498.7	3321.4	1401.4	1249.8
85°	512.7	535.0	869.4	1388.0	2926.1	6231.1	4965.0	2542.7	1344.9	561.7	532.0
87.5°	225.9	264.5	468.1	702.9	1334.5	1425.1	1234.9	992.7	627.1	212.5	187.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2	6540.2
2.5°	6529.8	6507.5	6494.1	6464.4	6446.6	6452.5	6455.5	6465.9	6483.7	6445.1
5°	6503.0	6471.8	6468.9	6468.9	6489.7	6522.4	6553.6	6578.8	6616.0	6566.9
7.5°	6561.0	6526.8	6528.3	6549.1	6590.7	6653.1	6721.5	6767.6	6821.1	6763.1
10°	6731.9	6690.3	6703.7	6720.0	6766.1	6838.9	6929.6	7009.8	7075.2	7032.1
12.5°	6940.0	6902.8	6911.7	6950.4	7006.8	7075.2	7158.4	7232.7	7296.6	7240.1
15°	7152.5	7136.1	7152.5	7214.9	7283.2	7315.9	7324.8	7360.5	7403.6	7356.1
17.5°	7402.1	7382.8	7400.6	7482.4	7498.7	7466.0	7400.6	7385.8	7411.0	7367.9
20°	7636.9	7628.0	7642.9	7684.5	7629.5	7510.6	7402.1	7359.0	7391.7	7348.6
22.5°	7889.6	7839.0	7824.2	7776.6	7625.0	7474.9	7359.0	7320.4	7367.9	7336.7
25°	8134.8	8014.4	7902.9	7721.6	7497.2	7363.5	7275.8	7241.6	7289.2	7275.8
27.5°	8363.6	8154.1	7882.1	7512.1	7262.4	7146.5	7107.9	7097.5	7158.4	7151.0
30°	8599.9	8265.5	7748.4	7192.6	6886.5	6795.8	6852.3	6920.6	6994.9	7008.3
32.5°	8837.7	8344.3	7515.1	6780.9	6448.1	6369.3	6526.8	6682.9	6783.9	6819.6
35°	9123.0	8400.8	7198.5	6298.0	5927.9	5907.1	6098.8	6302.4	6445.1	6471.8
37.5°	9475.2	8433.5	6810.7	5788.2	5387.0	5375.1	5550.5	5736.2	5856.6	5917.5
40°	9964.1	8439.4	6317.3	5220.6	4846.1	4829.7	4899.6	4999.1	5063.0	5131.4
42.5°	10658.1	8418.6	5813.5	4646.9	4376.5	4312.6	4282.9	4265.0	4164.0	4183.3
45°	11604.7	8393.3	5284.5	4147.6	3939.6	3799.9	3709.2	3577.0	3377.8	3374.9
47.5°	12814.4	8426.0	4811.9	3716.7	3565.1	3409.0	3232.2	3025.6	2810.2	2798.3
50°	14235.1	8564.2	4333.4	3345.1	3241.1	3091.0	2888.9	2642.2	2435.7	2416.4
52.5°	15862.3	8724.7	3857.8	3022.7	2992.9	2850.3	2628.9	2379.2	2217.2	2193.4
55°	17779.4	9013.0	3406.1	2755.2	2783.4	2658.6	2438.6	2206.8	2071.6	2058.2
57.5°	19836.1	9273.1	2988.5	2539.7	2605.1	2514.4	2310.8	2099.8	1998.8	1973.5
60°	22039.9	9032.3	2673.4	2353.9	2450.5	2404.5	2202.4	2000.3	1945.3	1931.9
62.5°	23881.2	8048.6	2422.3	2194.9	2318.3	2310.8	2119.1	1957.2	1945.3	1936.4
65°	24845.6	6427.3	2244.0	2061.2	2211.3	2223.2	2105.8	1973.5	2001.7	2012.1
67.5°	24422.1	4667.7	2123.6	1952.7	2122.1	2342.0	2455.0	2391.1	2394.1	2385.1
70°	22279.2	3287.2	2012.1	1868.0	2242.5	2981.1	2958.8	2628.9	2475.8	2388.1
72.5°	18069.1	2432.7	1885.8	1805.6	2562.0	3328.8	2909.7	2382.2	2145.9	2068.6
75°	11705.8	1925.9	1704.5	1661.4	2508.5	3138.6	2575.4	2095.4	1848.7	1772.9
77.5°	5373.6	1552.9	1475.7	1401.4	2114.7	2707.6	2169.7	1762.5	1552.9	1529.2
80°	2108.7	1282.5	1193.3	1136.8	1731.3	2337.6	1905.1	1541.1	1352.3	1312.2
82.5°	1053.6	1013.5	922.9	864.9	1468.2	2110.2	1682.2	1328.5	1162.1	1089.3
85°	567.7	677.6	643.5	576.6	1035.8	1569.3	1226.0	930.3	771.3	763.8
87.5°	280.9	309.1	260.1	274.9	530.5	842.6	756.4	584.0	441.4	462.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)