

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: P285745

Luminaire Tested: **USSL-XL-C047-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T2-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27330.6 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 176
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

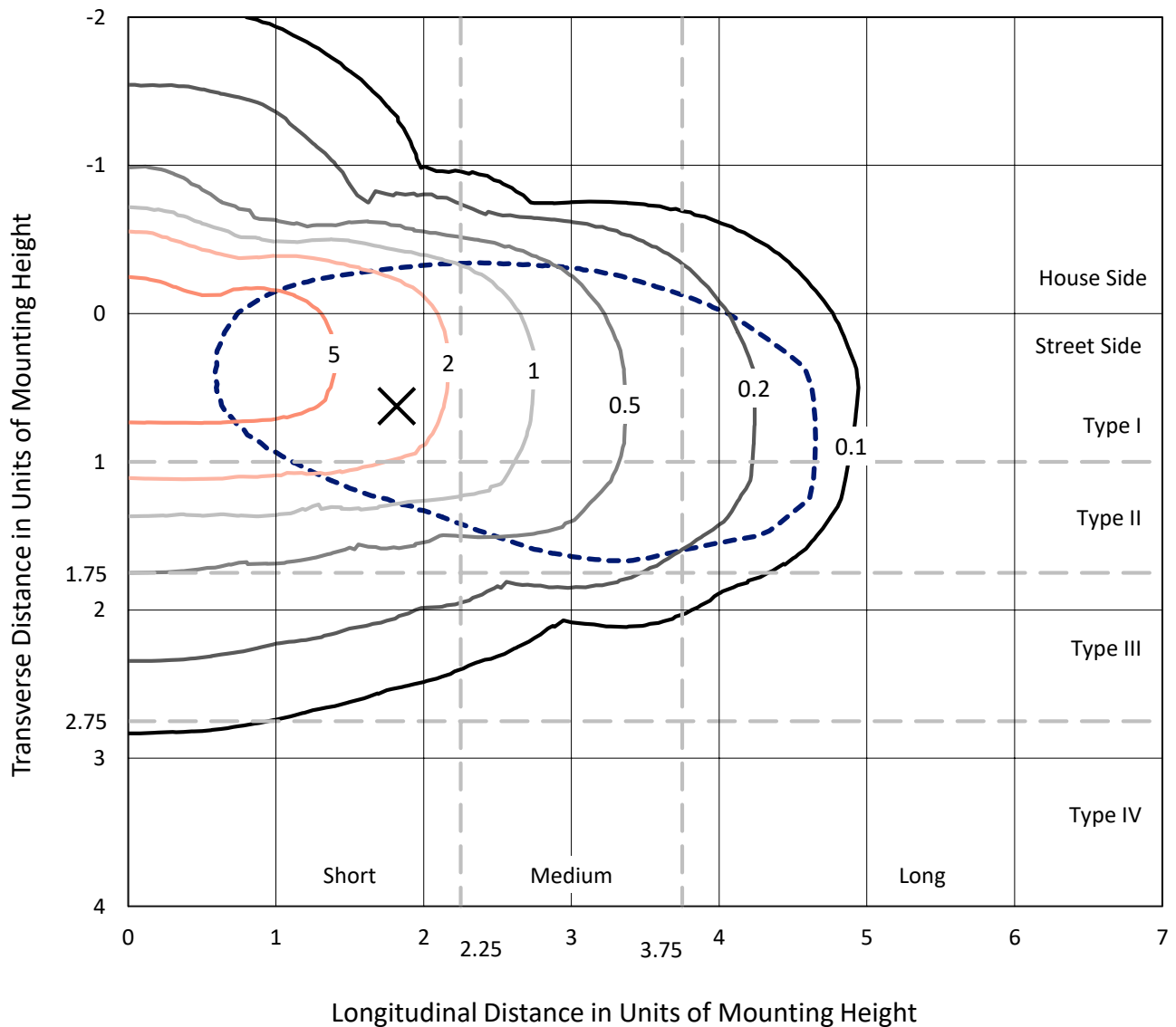


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

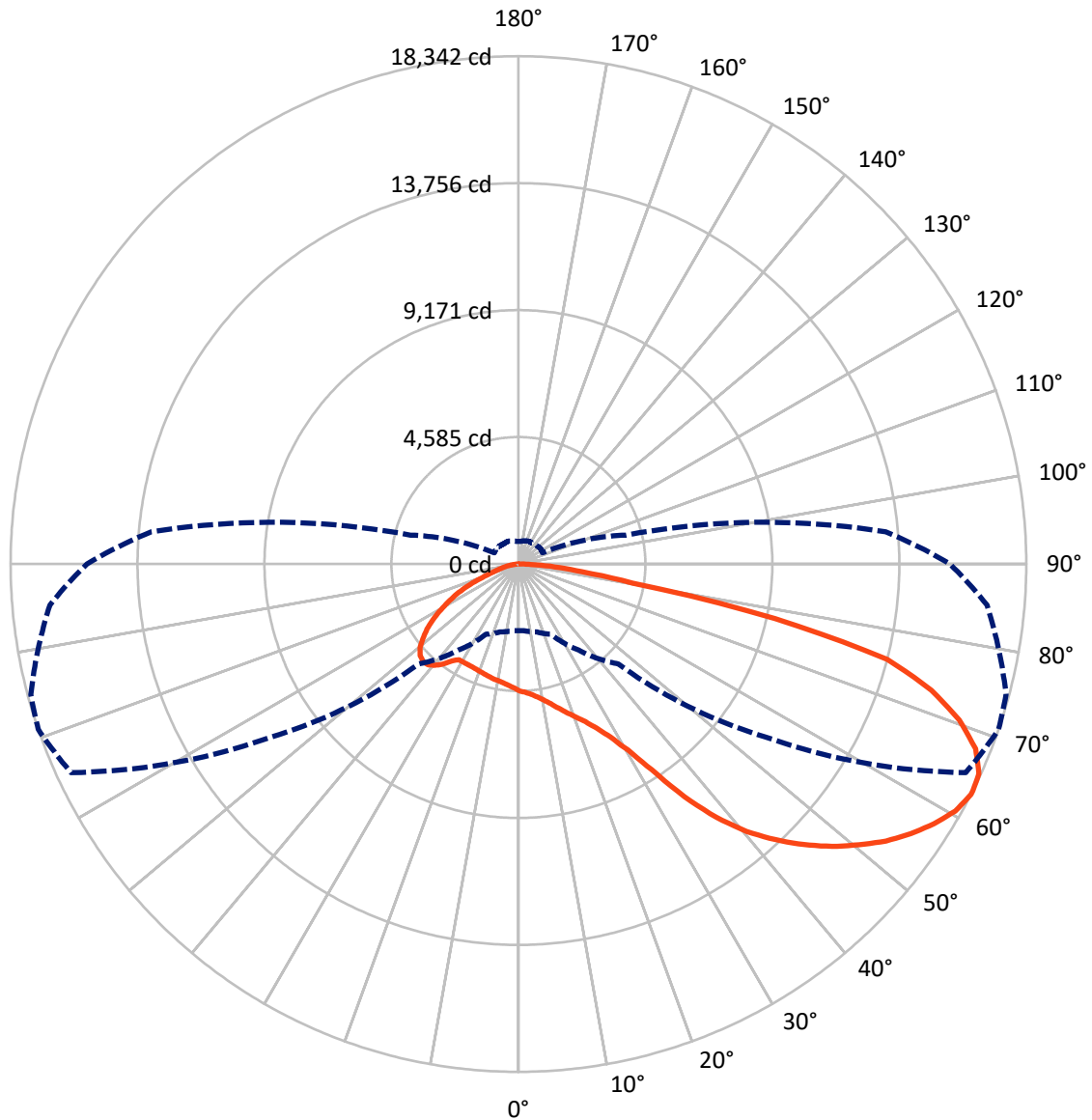


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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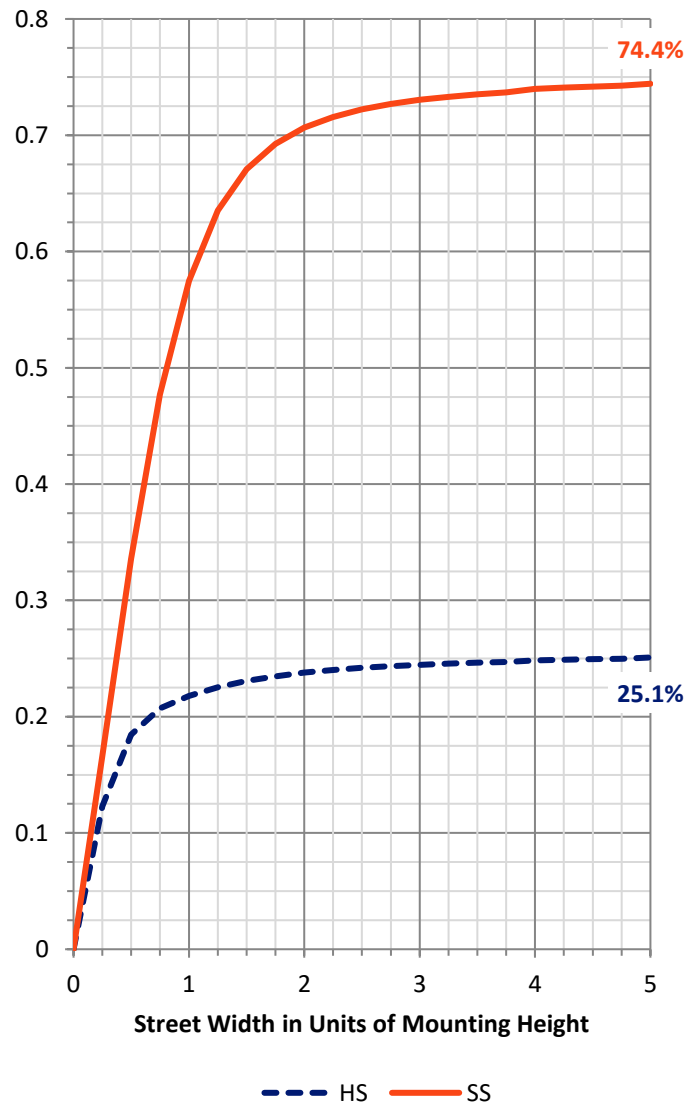
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6979.5	0.0	6979.5
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	20351.1	0.0	20351.1
	% Fixture	74.5	0.0	74.5
Total	Lumens	27330.6	0.0	27330.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	1.6
10°-20°	1351.1	4.9
20°-30°	2290.3	8.4
30°-40°	3452.1	12.6
40°-50°	4742.3	17.4
50°-60°	5513.5	20.2
60°-70°	5440.3	19.9
70°-80°	3478.6	12.7
80°-90°	621.0	2.3
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°	27330.6	100.0
0°-180°	27330.6	100.0



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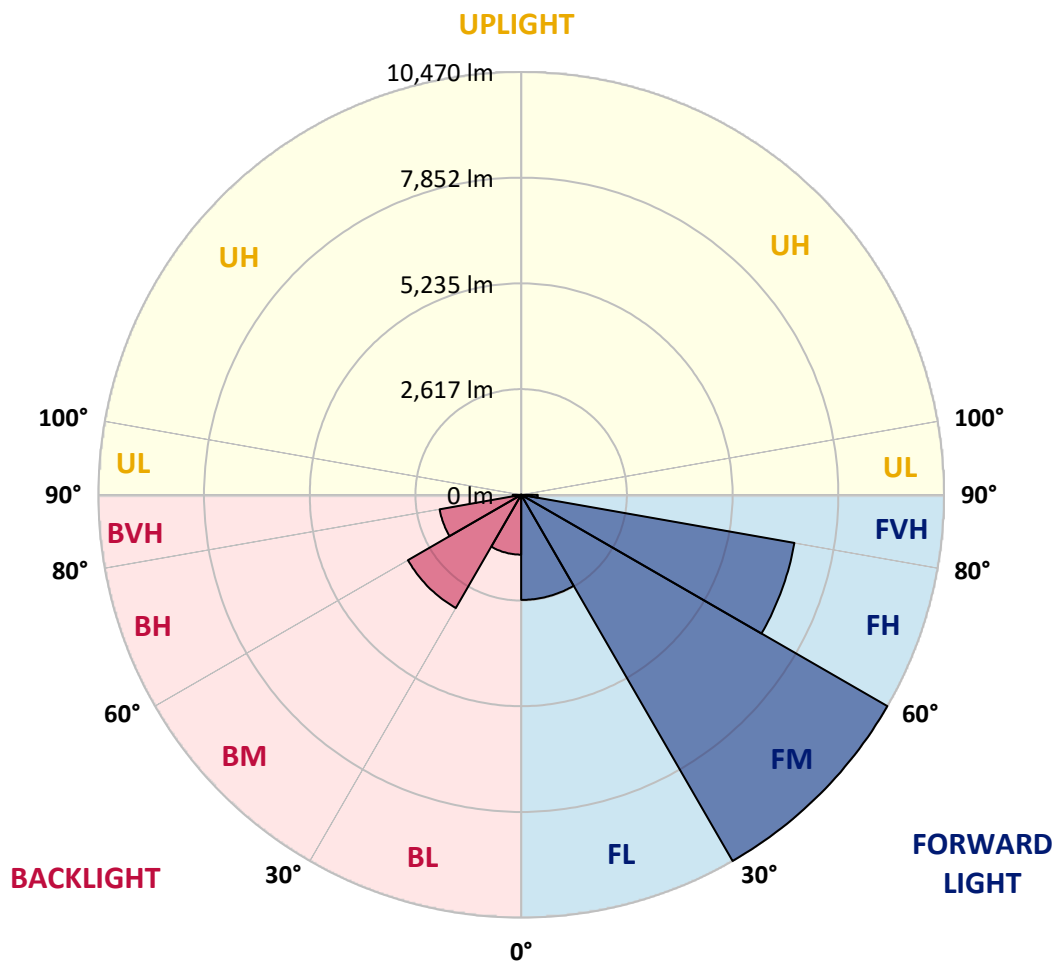
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2601.2	9.5			
FM	(30°-60°)	10469.8	38.3			
FH	(60°-80°)	6869.7	25.1			G3/7500
FVH	(80°-90°)	410.3	1.5			G3/500
BL	(0°-30°)	1481.6	5.4	B3/2500		
BM	(30°-60°)	3238.0	11.8	B3/5000		
BH	(60°-80°)	2049.1	7.5	B3/2500		G3/2500
BVH	(80°-90°)	210.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9
2.5°	4884.9	4875.4	4864.0	4844.3	4821.4	4794.2	4766.2	4702.7	4637.2	4616.3	4571.6
5°	5153.3	5135.6	5121.0	5102.4	5058.6	5003.5	4929.6	4825.5	4723.6	4691.2	4598.7
7.5°	5390.5	5370.8	5344.8	5319.9	5271.9	5201.1	5101.3	4969.1	4846.3	4790.1	4639.2
10°	5601.8	5583.1	5569.6	5541.5	5503.0	5417.7	5299.0	5133.5	4991.0	4913.0	4703.7
12.5°	5836.0	5820.3	5792.2	5760.0	5709.0	5626.8	5508.2	5328.1	5176.2	5081.5	4802.6
15°	6074.3	6063.9	6014.0	5995.2	5938.0	5843.2	5738.2	5552.9	5397.9	5280.3	4944.1
17.5°	6285.5	6278.2	6247.1	6225.2	6178.4	6072.2	5964.0	5794.4	5636.1	5486.4	5101.3
20°	6420.9	6431.3	6425.0	6420.9	6417.7	6330.3	6223.1	6048.3	5889.0	5740.2	5269.8
22.5°	6546.8	6550.9	6567.6	6606.0	6661.3	6622.7	6507.2	6345.9	6183.6	6005.6	5488.4
25°	6586.3	6589.4	6653.9	6770.5	6925.5	6942.2	6847.5	6739.3	6562.4	6387.5	5788.1
27.5°	6618.5	6626.9	6708.0	6912.0	7184.6	7263.7	7229.4	7194.1	7069.1	6886.0	6190.9
30°	6609.2	6611.2	6745.5	7007.7	7390.7	7604.0	7656.1	7826.7	7795.6	7670.6	6865.2
32.5°	6437.5	6421.8	6616.4	7009.9	7552.0	7945.4	8185.8	8671.8	8856.0	8889.3	8213.9
35°	6087.9	6087.9	6379.2	6928.7	7668.6	8282.6	8789.3	9699.9	10321.2	10337.8	9496.0
37.5°	5796.4	5815.1	6141.9	6776.7	7722.6	8624.9	9481.3	10957.0	11612.7	11556.4	10566.8
40°	5506.1	5529.0	5864.1	6569.7	7690.4	8920.4	10152.6	12155.9	12701.2	12572.1	11479.5
42.5°	5184.5	5202.2	5516.5	6275.1	7579.0	9135.9	10873.7	13178.8	13612.8	13455.6	12312.0
45°	4862.9	4893.1	5176.2	5879.7	7361.5	9264.9	11492.0	14107.1	14458.8	14277.7	13069.5
47.5°	4389.5	4506.1	4835.9	5489.4	6967.1	9255.6	12040.4	14940.7	15239.3	15046.8	13752.2
50°	3426.9	3495.6	4223.0	5135.6	6446.8	9069.2	12473.2	15684.7	15940.7	15770.0	14442.2
52.5°	3112.6	3131.4	3366.6	4701.7	5870.4	8700.9	12793.7	16372.6	16622.3	16426.6	15066.6
55°	2951.3	2961.7	3077.2	3844.2	5381.2	8022.4	12939.5	17008.4	17196.8	16976.2	15595.3
57.5°	2731.7	2764.0	2925.3	3277.0	4880.6	7062.9	12751.1	17508.0	17696.3	17457.0	16100.9
60°	2569.4	2589.1	2727.5	3000.2	4301.0	5941.1	12099.7	17869.1	18122.9	17902.3	16570.3
62.5°	2409.2	2420.6	2537.1	2799.4	3802.5	5106.5	10883.2	17827.4	18341.5	18231.2	16986.6
63°	2375.8	2386.3	2502.7	2762.9	3728.6	4935.8	10627.2	17775.4	18341.5	18264.5	17038.6
65°	2228.0	2240.5	2356.1	2593.3	3419.6	4507.0	9484.5	17451.8	18276.0	18312.3	17112.5
67.5°	2008.5	2029.3	2125.0	2332.1	2955.4	3984.7	7789.3	17113.6	17805.6	17883.6	16703.5
70°	1749.4	1753.5	1869.0	2042.9	2491.3	3389.5	6004.5	16087.5	16886.6	16921.0	15747.1
72.5°	1473.6	1485.0	1589.1	1735.8	2066.7	2806.6	4292.7	14184.1	15602.5	15796.1	14145.6
75°	1286.3	1295.6	1383.1	1486.1	1716.1	2212.4	2871.2	10343.0	13755.4	13970.8	12236.0
77.5°	1077.1	1083.3	1174.9	1245.7	1394.5	1669.2	1982.4	5457.2	9474.1	10620.9	9559.5
80°	766.9	768.0	859.6	914.7	1010.5	1026.1	1260.2	2904.4	4168.9	5387.5	6317.9
82.5°	166.5	239.3	360.0	452.7	506.8	426.7	620.3	1591.1	2303.0	2749.4	3424.7
85°	71.8	98.9	190.5	209.1	139.5	154.0	251.8	848.1	1316.4	1567.3	1762.8
87.5°	13.6	17.7	48.9	65.6	40.6	42.7	51.0	271.7	461.1	541.2	603.6
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°	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9	4581.9
2.5°	4544.5	4532.0	4490.4	4462.3	4444.6	4421.7	4392.5	4354.1	4342.6	4315.6	4337.4
5°	4547.6	4514.3	4426.9	4363.5	4306.3	4256.2	4197.9	4142.8	4122.1	4085.6	4100.2
7.5°	4562.2	4506.1	4370.7	4273.9	4188.6	4121.0	4039.8	3972.2	3948.2	3906.6	3913.9
10°	4600.7	4513.3	4327.0	4209.4	4091.8	3993.0	3898.3	3805.7	3764.0	3727.7	3745.3
12.5°	4668.3	4540.4	4307.2	4156.4	4000.3	3879.6	3741.1	3622.5	3564.2	3517.4	3533.0
15°	4770.4	4592.4	4284.3	4080.4	3892.1	3734.9	3565.3	3415.4	3349.8	3313.5	3331.2
17.5°	4874.4	4668.3	4270.9	3987.8	3762.0	3558.0	3394.6	3253.0	3133.4	3106.4	3116.7
20°	4997.2	4746.4	4281.3	3889.9	3609.0	3367.5	3174.0	3079.3	2924.3	2870.1	2873.3
22.5°	5159.6	4868.1	4290.6	3794.2	3426.9	3157.3	2931.5	2837.9	2689.1	2593.3	2597.5
25°	5392.7	5019.1	4312.4	3705.7	3247.9	2926.3	2665.1	2509.0	2416.4	2294.7	2295.6
27.5°	5712.1	5226.2	4356.2	3622.5	3057.4	2661.0	2341.4	2166.6	2085.5	2005.3	1994.9
30°	6257.4	5568.5	4420.7	3531.0	2831.6	2340.5	2000.1	1847.2	1778.5	1712.9	1705.6
32.5°	7408.4	6400.0	4510.2	3415.4	2588.1	1976.2	1698.4	1577.7	1480.9	1416.3	1425.7
35°	8589.5	7441.7	4889.0	3278.1	2313.3	1657.8	1471.5	1321.6	1197.8	1147.9	1150.9
37.5°	9601.1	8385.6	5458.3	3129.2	2009.5	1452.7	1243.6	1098.9	1000.0	975.1	1006.3
40°	10443.0	9160.8	5915.1	2972.1	1690.0	1280.0	1013.6	934.5	871.0	863.7	891.8
42.5°	11239.1	9861.2	6299.1	2791.0	1392.4	1057.3	841.9	860.6	851.2	850.3	854.4
45°	11962.3	10510.6	6513.4	2521.5	1182.2	865.8	795.0	865.8	881.4	879.4	868.0
47.5°	12621.1	11103.7	6659.1	2131.2	1001.1	811.7	821.1	868.9	898.1	903.2	890.8
50°	13304.7	11683.4	6682.0	1658.8	929.3	854.4	844.0	837.7	890.8	889.8	890.8
52.5°	13915.6	12180.8	6432.3	1289.4	966.7	899.1	862.7	826.3	856.5	857.5	836.7
55°	14375.5	12588.8	6004.5	1130.2	998.0	936.6	916.8	844.0	825.2	812.7	820.0
57.5°	14850.2	12953.0	5423.9	1058.3	1007.3	944.9	964.7	848.1	820.0	762.8	758.7
60°	15307.0	13247.5	4736.1	1010.5	995.9	940.8	934.5	880.4	826.3	741.0	711.8
62.5°	15584.8	13312.0	4032.5	963.7	974.0	934.5	901.2	904.3	866.9	820.0	813.8
63°	15617.1	13290.2	3898.3	952.2	968.9	933.5	901.2	906.4	866.9	838.8	839.8
65°	15576.5	13036.2	3371.8	903.2	950.1	916.8	887.7	861.7	797.2	814.9	835.6
67.5°	15120.6	12205.8	2592.3	824.2	908.4	889.8	847.1	782.5	724.3	712.9	725.3
70°	13889.6	10845.6	1836.7	702.4	833.6	855.4	836.7	739.9	681.6	671.2	696.2
72.5°	12180.8	9416.9	1261.3	562.0	698.3	796.1	790.9	712.9	660.8	630.6	643.1
75°	10253.6	7595.8	881.4	473.5	538.0	717.0	750.3	690.0	650.5	622.3	618.1
77.5°	7894.3	5737.1	693.1	404.8	444.3	580.7	690.0	684.8	733.7	865.8	836.7
80°	5378.1	3815.0	499.5	303.9	353.8	406.9	594.2	706.6	928.3	545.3	534.9
82.5°	3126.1	2241.6	312.2	201.9	211.2	276.8	372.6	746.2	621.3	245.6	310.1
85°	1510.0	976.2	156.1	139.5	96.8	104.1	172.8	695.2	440.2	109.3	21.8
87.5°	481.8	237.3	16.6	12.5	14.5	20.8	82.2	424.6	259.1	93.7	13.6
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)