

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: P285755

Luminaire Tested: **USSL-XL-C047-D-U-T2-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285755
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-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28341.7 lumens
Efficiency: N/A
Efficacy: 161.0 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

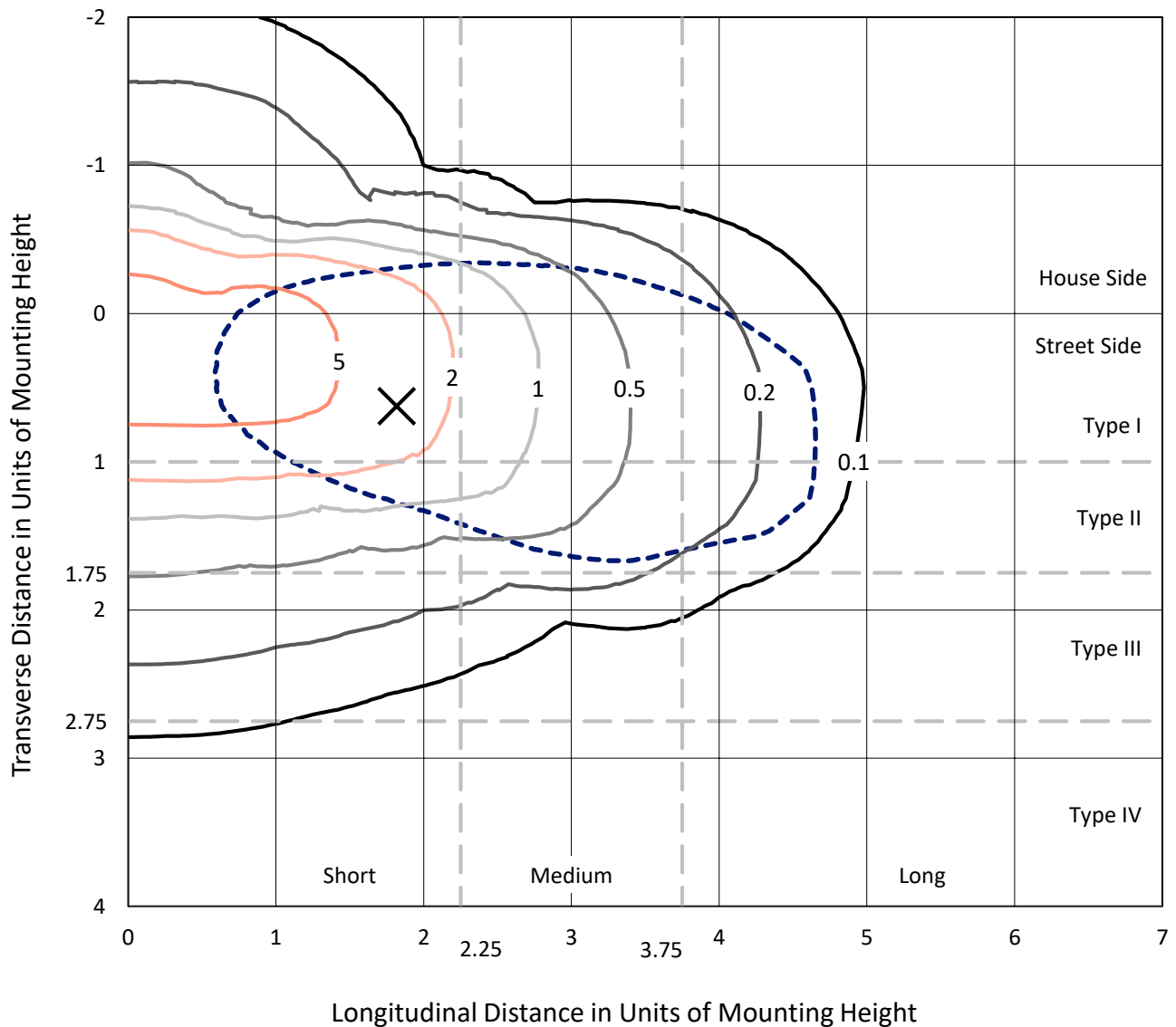


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

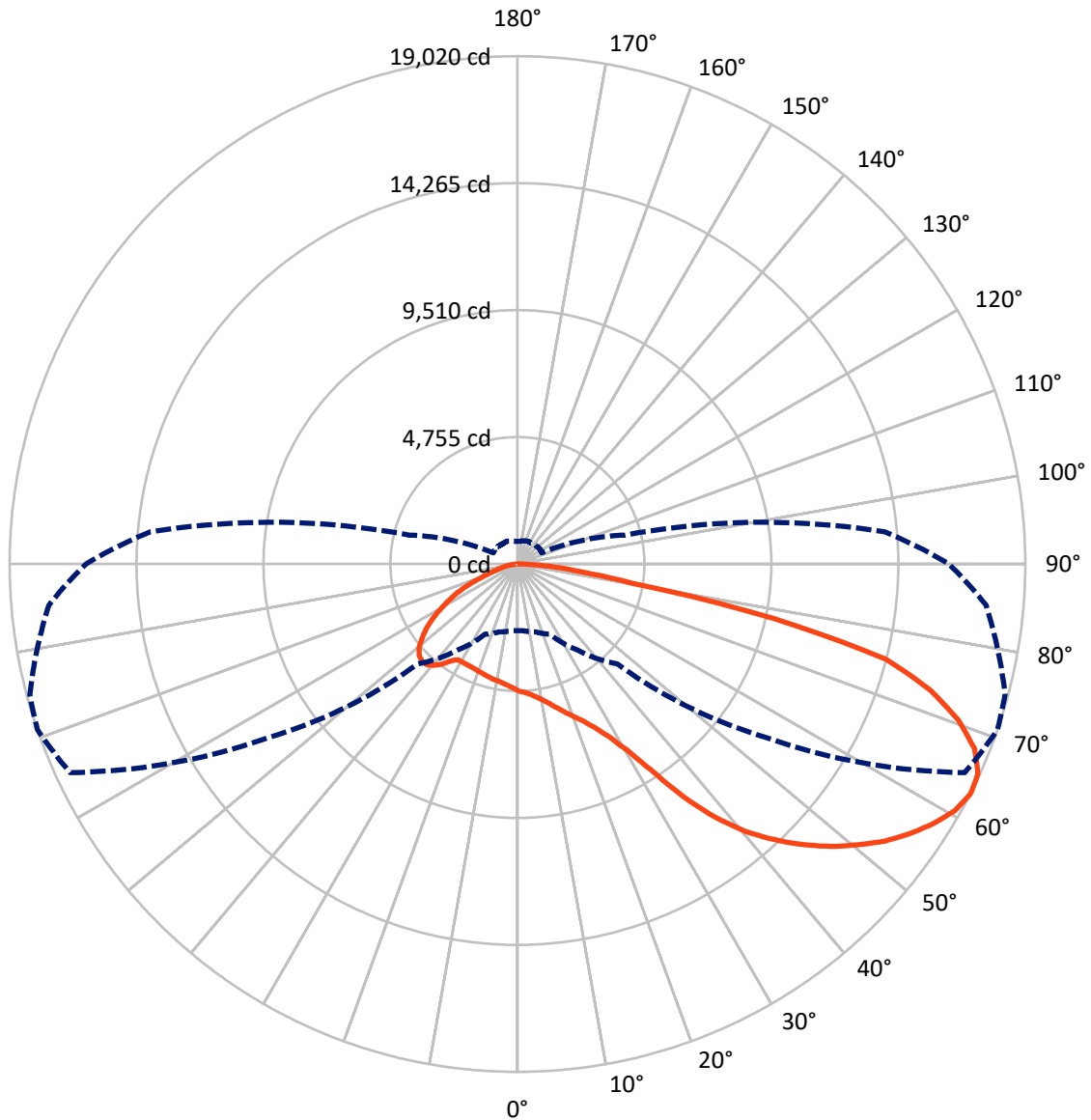


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Non-Cutoff

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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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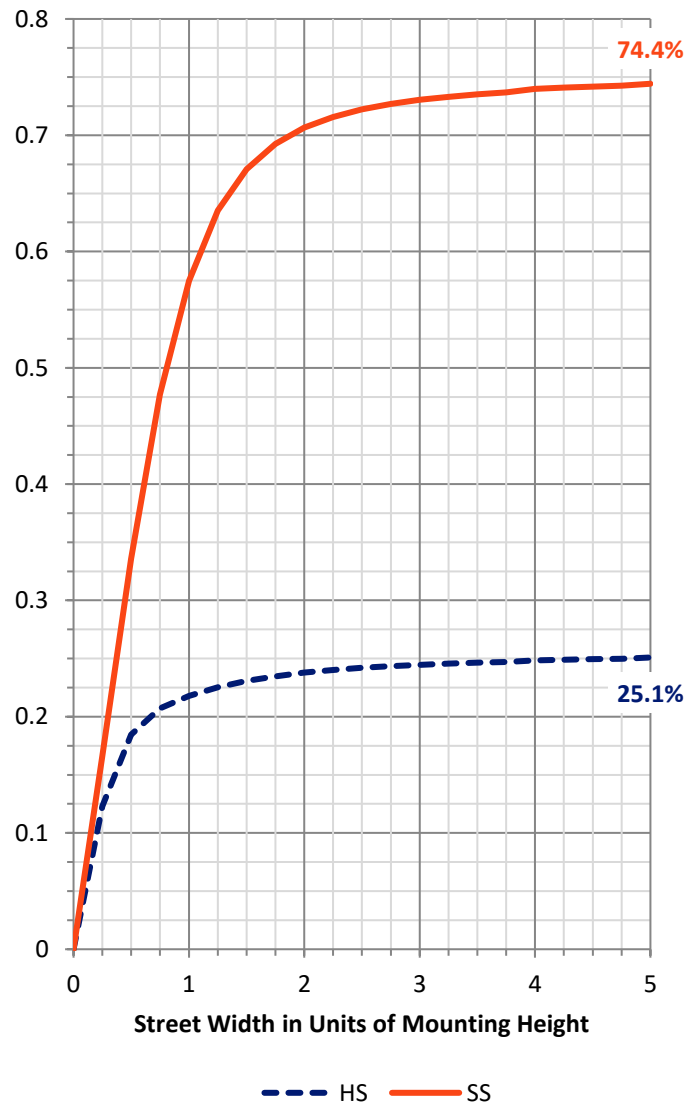
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7237.6	0.0	7237.6
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	21104.1	0.0	21104.1
	% Fixture	74.5	0.0	74.5
Total	Lumens	28341.7	0.0	28341.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	1.6
10°-20°	1401.1	4.9
20°-30°	2375.1	8.4
30°-40°	3579.8	12.6
40°-50°	4917.8	17.4
50°-60°	5717.5	20.2
60°-70°	5641.5	19.9
70°-80°	3607.3	12.7
80°-90°	643.9	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°	28341.7	100.0
0°-180°	28341.7	100.0



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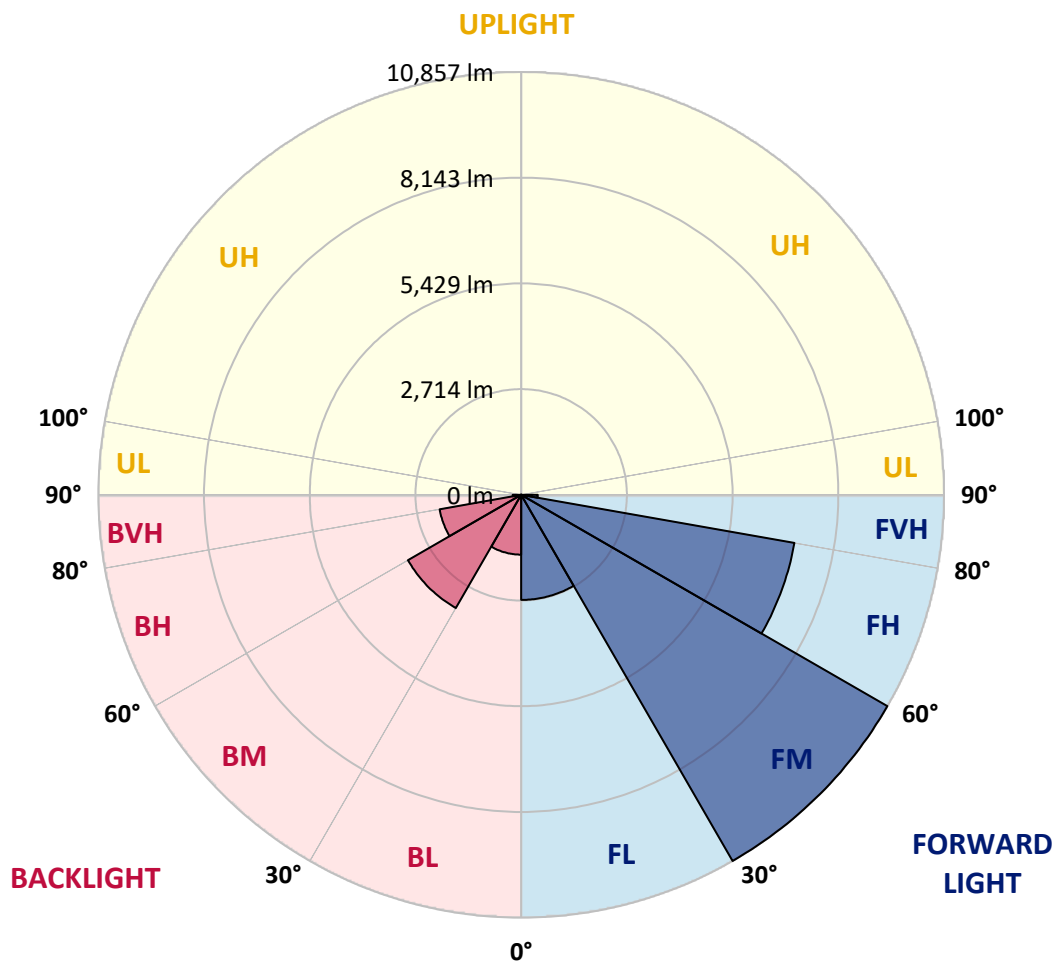
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2697.5	9.5			
FM	(30°-60°)	10857.2	38.3			
FH	(60°-80°)	7123.9	25.1			G3/7500
FVH	(80°-90°)	425.5	1.5			G3/500
BL	(0°-30°)	1536.5	5.4	B3/2500		
BM	(30°-60°)	3357.8	11.8	B3/5000		
BH	(60°-80°)	2124.9	7.5	B3/2500		G3/2500
BVH	(80°-90°)	218.4	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°	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5
2.5°	5065.6	5055.8	5044.0	5023.5	4999.8	4971.7	4942.5	4876.7	4808.7	4787.1	4740.7
5°	5344.0	5325.6	5310.5	5291.1	5245.8	5188.5	5111.9	5004.0	4898.3	4864.8	4768.8
7.5°	5590.0	5569.6	5542.5	5516.7	5467.0	5393.6	5290.0	5152.9	5025.6	4967.3	4810.9
10°	5809.1	5789.7	5775.6	5746.5	5706.6	5618.1	5495.1	5323.5	5175.6	5094.7	4877.8
12.5°	6051.9	6035.7	6006.6	5973.1	5920.3	5835.0	5711.9	5525.3	5367.8	5269.5	4980.3
15°	6299.0	6288.2	6236.5	6216.9	6157.7	6059.4	5950.5	5758.3	5597.5	5475.7	5127.1
17.5°	6518.1	6510.5	6478.1	6455.5	6406.9	6296.9	6184.6	6008.7	5844.7	5689.3	5290.0
20°	6658.4	6669.2	6662.7	6658.4	6655.1	6564.5	6453.3	6272.1	6106.9	5952.6	5464.8
22.5°	6789.0	6793.2	6810.5	6850.5	6907.7	6867.7	6748.0	6580.7	6412.3	6227.8	5691.5
25°	6830.0	6833.2	6900.1	7021.0	7181.8	7199.1	7100.8	6988.6	6805.1	6623.8	6002.2
27.5°	6863.4	6872.1	6956.2	7167.8	7450.5	7532.5	7496.9	7460.2	7330.7	7140.8	6419.9
30°	6853.7	6855.9	6995.0	7267.0	7664.1	7885.3	7939.3	8116.3	8084.0	7954.4	7119.1
32.5°	6675.7	6659.5	6861.3	7269.2	7831.4	8239.3	8488.6	8992.6	9183.6	9218.2	8517.8
35°	6313.1	6313.1	6615.3	7185.0	7952.3	8589.0	9114.5	10058.8	10703.1	10720.4	9847.3
37.5°	6010.9	6030.3	6369.2	7027.5	8008.4	8944.1	9832.2	11362.4	12042.3	11984.0	10957.7
40°	5709.8	5733.5	6081.1	6812.7	7974.9	9250.5	10528.2	12605.6	13171.1	13037.3	11904.2
42.5°	5376.3	5394.7	5720.6	6507.3	7859.5	9473.9	11276.1	13666.4	14116.4	13953.5	12767.4
45°	5042.9	5074.2	5367.8	6097.2	7633.9	9607.7	11917.1	14629.0	14993.8	14806.0	13553.0
47.5°	4551.8	4672.8	5014.8	5692.5	7224.9	9598.0	12485.8	15493.4	15803.1	15603.5	14261.1
50°	3553.6	3624.9	4379.2	5325.6	6685.3	9404.8	12934.7	16265.0	16530.5	16353.5	14976.5
52.5°	3227.7	3247.2	3491.1	4875.6	6087.5	9022.8	13267.1	16978.3	17237.4	17034.4	15624.0
55°	3060.5	3071.3	3191.0	3986.4	5580.3	8319.2	13418.2	17637.7	17833.0	17604.2	16172.2
57.5°	2832.8	2866.2	3033.5	3398.3	5061.2	7324.2	13222.9	18155.7	18351.0	18102.8	16696.7
60°	2664.4	2684.9	2828.4	3111.2	4460.2	6160.9	12547.3	18530.1	18793.4	18564.7	17183.3
62.5°	2498.3	2510.2	2631.0	2903.0	3943.3	5295.4	11285.8	18487.0	19020.1	18905.6	17615.0
63°	2463.7	2474.5	2595.4	2865.1	3866.6	5118.5	11020.3	18433.0	19020.1	18940.2	17669.0
65°	2310.5	2323.4	2443.2	2689.3	3546.1	4673.8	9835.4	18097.4	18952.1	18989.9	17745.6
67.5°	2082.8	2104.3	2203.6	2418.4	3064.8	4132.1	8077.5	17746.6	18464.3	18545.3	17321.5
70°	1814.0	1818.4	1938.1	2118.4	2583.5	3514.8	6226.7	16682.6	17511.5	17547.1	16329.8
72.5°	1528.1	1539.9	1647.8	1800.0	2143.2	2910.5	4451.5	14708.9	16179.8	16380.4	14668.9
75°	1333.9	1343.5	1434.2	1541.0	1779.6	2294.3	2977.4	10725.7	14264.2	14487.7	12688.7
77.5°	1116.9	1123.4	1218.4	1291.7	1446.0	1730.9	2055.8	5659.1	9824.6	11013.8	9913.1
80°	795.3	796.4	891.4	948.6	1047.8	1064.0	1306.9	3011.9	4323.1	5586.7	6551.6
82.5°	172.7	248.2	373.4	469.4	525.5	442.4	643.1	1650.1	2388.2	2851.1	3551.5
85°	74.5	102.5	197.5	217.0	144.6	159.7	261.2	879.5	1365.2	1625.3	1828.1
87.5°	14.0	18.3	50.8	67.9	42.1	44.2	52.9	281.6	478.0	561.1	625.9
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°	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5	4751.5
2.5°	4712.6	4699.7	4656.6	4627.4	4609.1	4585.3	4555.1	4515.2	4503.3	4475.2	4497.9
5°	4715.9	4681.4	4590.7	4524.9	4465.6	4413.7	4353.3	4296.1	4274.6	4236.7	4251.9
7.5°	4731.0	4672.8	4532.5	4432.1	4343.6	4273.4	4189.3	4119.1	4094.3	4051.1	4058.7
10°	4770.9	4680.3	4487.1	4365.2	4243.2	4140.7	4042.5	3946.4	3903.3	3865.6	3883.9
12.5°	4841.1	4708.4	4466.6	4310.2	4148.2	4023.1	3879.6	3756.5	3696.1	3647.5	3663.8
15°	4946.9	4762.3	4442.9	4231.3	4036.0	3873.1	3697.1	3541.8	3473.8	3436.0	3454.3
17.5°	5054.8	4841.1	4428.8	4135.3	3901.2	3689.6	3520.2	3373.4	3249.3	3221.2	3232.1
20°	5182.1	4922.1	4439.6	4033.9	3742.5	3492.2	3291.4	3193.3	3032.4	2976.3	2979.6
22.5°	5350.5	5048.3	4449.4	3934.6	3553.6	3274.1	3040.0	2942.8	2788.5	2689.3	2693.5
25°	5592.1	5204.7	4472.0	3842.9	3368.0	3034.6	2763.7	2601.8	2505.8	2379.6	2380.6
27.5°	5923.5	5419.5	4517.3	3756.5	3170.6	2759.3	2428.1	2246.8	2162.6	2079.5	2068.7
30°	6488.9	5774.5	4584.3	3661.5	2936.3	2427.1	2074.1	1915.5	1844.2	1776.3	1768.8
32.5°	7682.5	6636.8	4677.0	3541.8	2683.9	2049.3	1761.1	1636.0	1535.6	1468.7	1478.5
35°	8907.3	7717.0	5069.8	3399.3	2399.0	1719.1	1525.9	1370.6	1242.1	1190.3	1193.6
37.5°	9956.3	8695.8	5660.2	3245.0	2083.9	1506.5	1289.6	1139.6	1037.1	1011.1	1043.6
40°	10829.3	9499.8	6134.0	3082.1	1752.5	1327.3	1051.1	969.1	903.2	895.7	924.9
42.5°	11654.9	10226.0	6532.2	2894.3	1443.9	1096.5	873.0	892.4	882.8	881.6	886.0
45°	12404.9	10899.5	6754.4	2614.8	1225.9	897.8	824.5	897.8	914.1	911.8	900.0
47.5°	13088.0	11514.5	6905.5	2210.1	1038.2	841.8	851.4	901.1	931.3	936.7	923.7
50°	13796.9	12115.6	6929.2	1720.2	963.7	886.0	875.2	868.7	923.7	922.6	923.7
52.5°	14430.4	12631.5	6670.3	1337.1	1002.6	932.4	894.7	856.8	888.1	889.3	867.6
55°	14907.4	13054.5	6226.7	1171.9	1034.9	971.2	950.7	875.2	855.8	842.8	850.4
57.5°	15399.5	13432.2	5624.6	1097.5	1044.6	979.9	1000.3	879.5	850.4	791.0	786.7
60°	15873.3	13737.6	4911.3	1047.8	1032.8	975.5	969.1	913.0	856.8	768.3	738.1
62.5°	16161.4	13804.6	4181.7	999.3	1010.1	969.1	934.5	937.8	898.9	850.4	843.9
63°	16194.8	13781.9	4042.5	987.4	1004.7	968.0	934.5	939.9	898.9	869.8	870.9
65°	16152.8	13518.6	3496.5	936.7	985.3	950.7	920.5	893.5	826.6	845.0	866.6
67.5°	15680.1	12657.4	2688.1	854.7	942.1	922.6	878.4	811.6	751.0	739.2	752.2
70°	14403.5	11246.9	1904.7	728.5	864.5	887.0	867.6	767.3	706.8	696.0	722.0
72.5°	12631.5	9765.3	1307.9	582.7	724.1	825.6	820.2	739.2	685.2	654.0	666.9
75°	10632.9	7876.8	914.1	491.1	557.9	743.5	778.1	715.4	674.5	645.4	641.0
77.5°	8186.5	5949.3	718.7	419.8	460.8	602.1	715.4	710.1	760.8	897.8	867.6
80°	5577.1	3956.2	518.0	315.1	366.9	421.9	616.2	732.7	962.6	565.5	554.6
82.5°	3241.8	2324.5	323.7	209.3	219.1	287.0	386.3	773.7	644.2	254.7	321.6
85°	1565.9	1012.2	161.8	144.6	100.4	107.9	179.1	720.8	456.5	113.3	22.7
87.5°	499.6	246.0	17.3	12.9	15.2	21.6	85.2	440.3	268.7	97.1	14.0
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)