

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: P484304

Luminaire Tested: **IFLD-L-SA7A-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484304  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

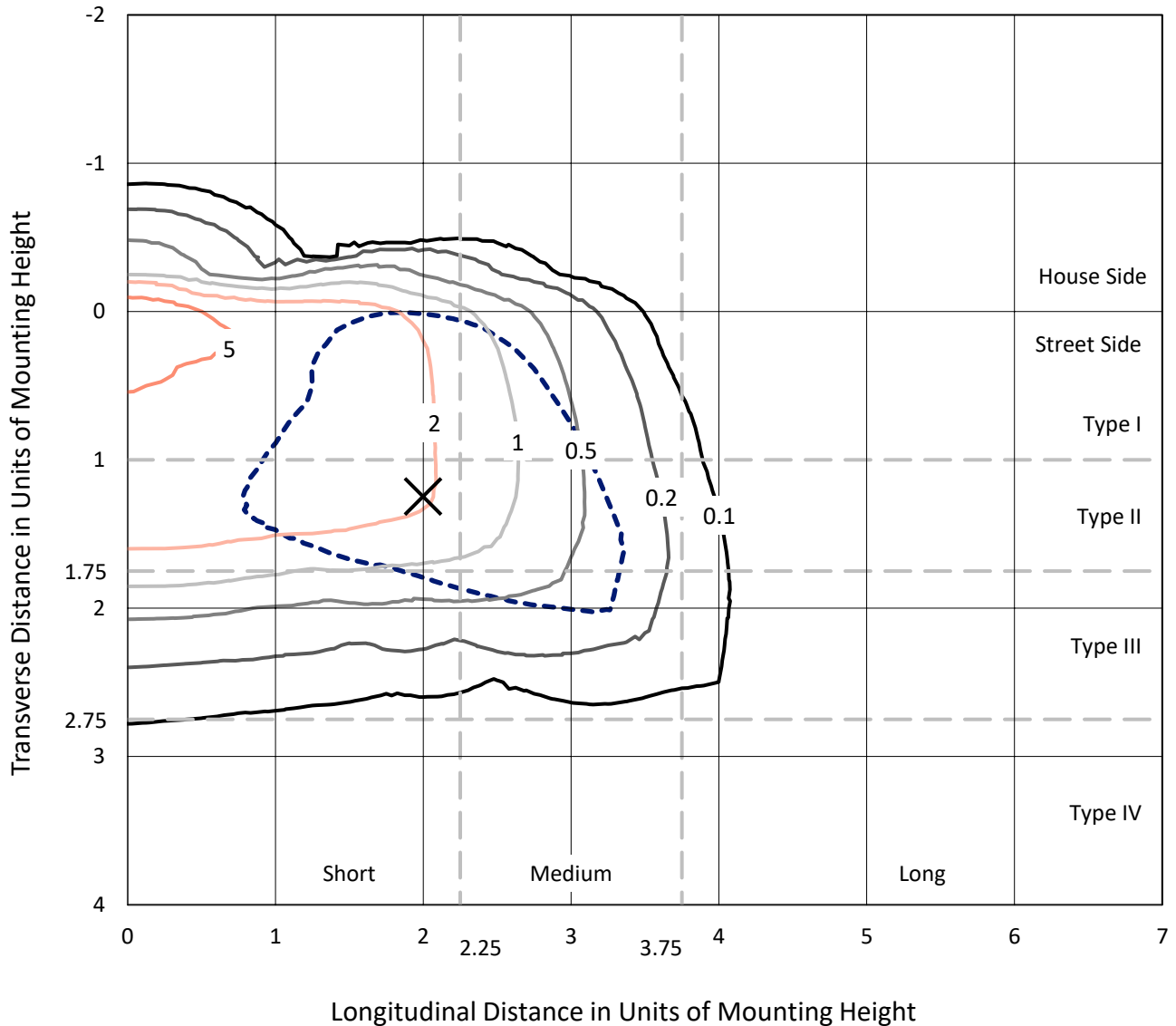
Lumens per Lamp: N/A  
Luminaire Lumens: 21891.4 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
Input Voltage (V): 120  
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

REPORT NUMBER: P484304  
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

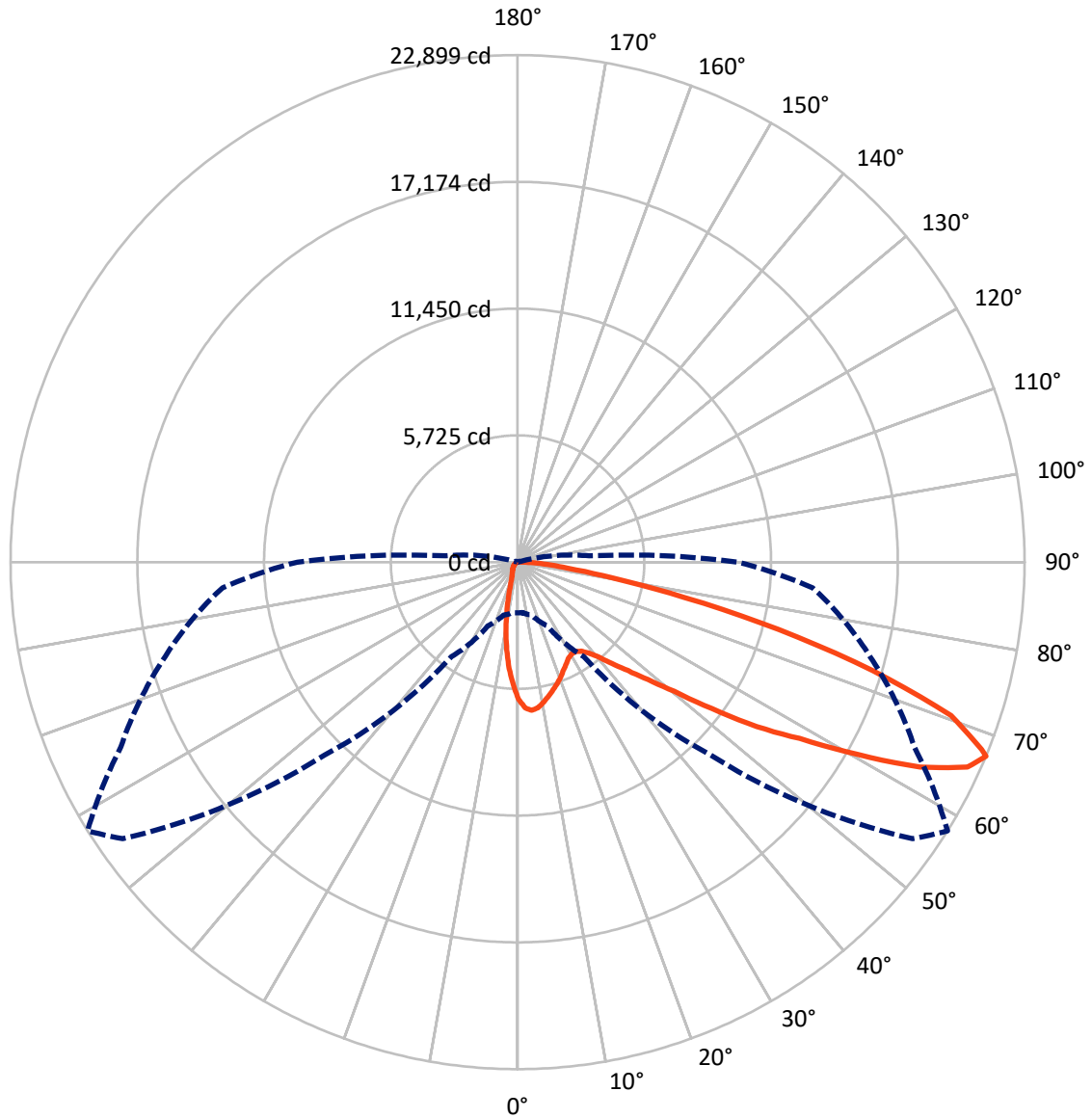
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P484304  
CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484304  
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

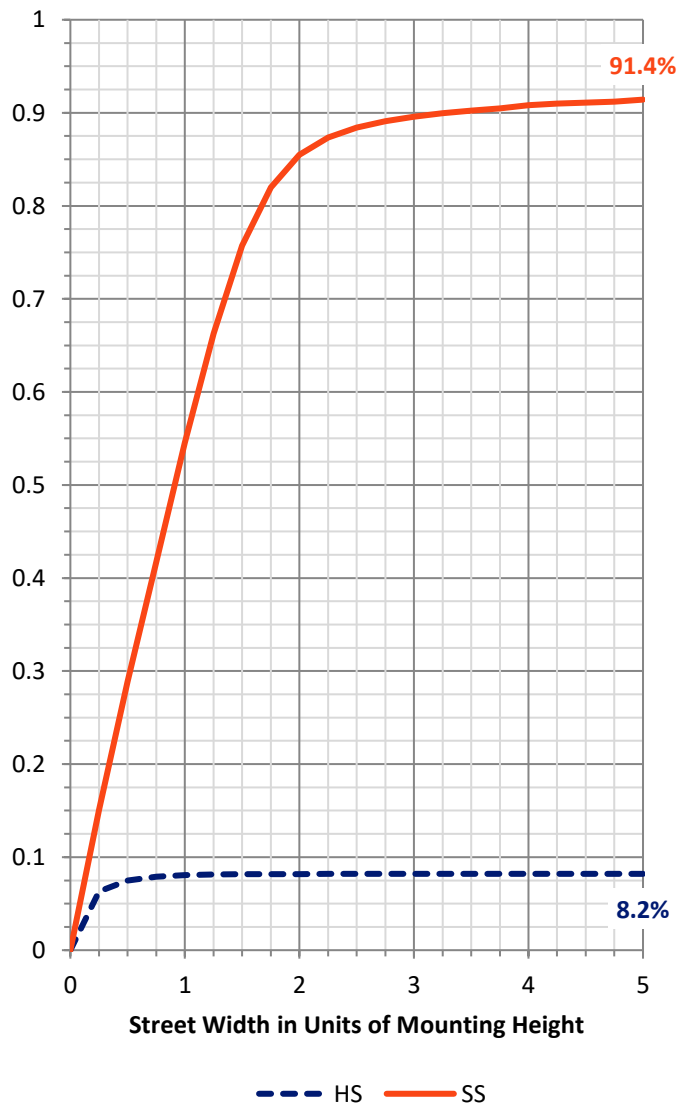
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1809.5	0.0	1809.5
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	20081.9	0.0	20081.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	21891.4	0.0	21891.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.1	2.2
10°-20°	1020.7	4.7
20°-30°	1354.3	6.2
30°-40°	1876.6	8.6
40°-50°	3062.1	14.0
50°-60°	5382.2	24.6
60°-70°	5961.2	27.2
70°-80°	2470.3	11.3
80°-90°	271.9	1.2
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°	21891.4	100.0
0°-180°	21891.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484304

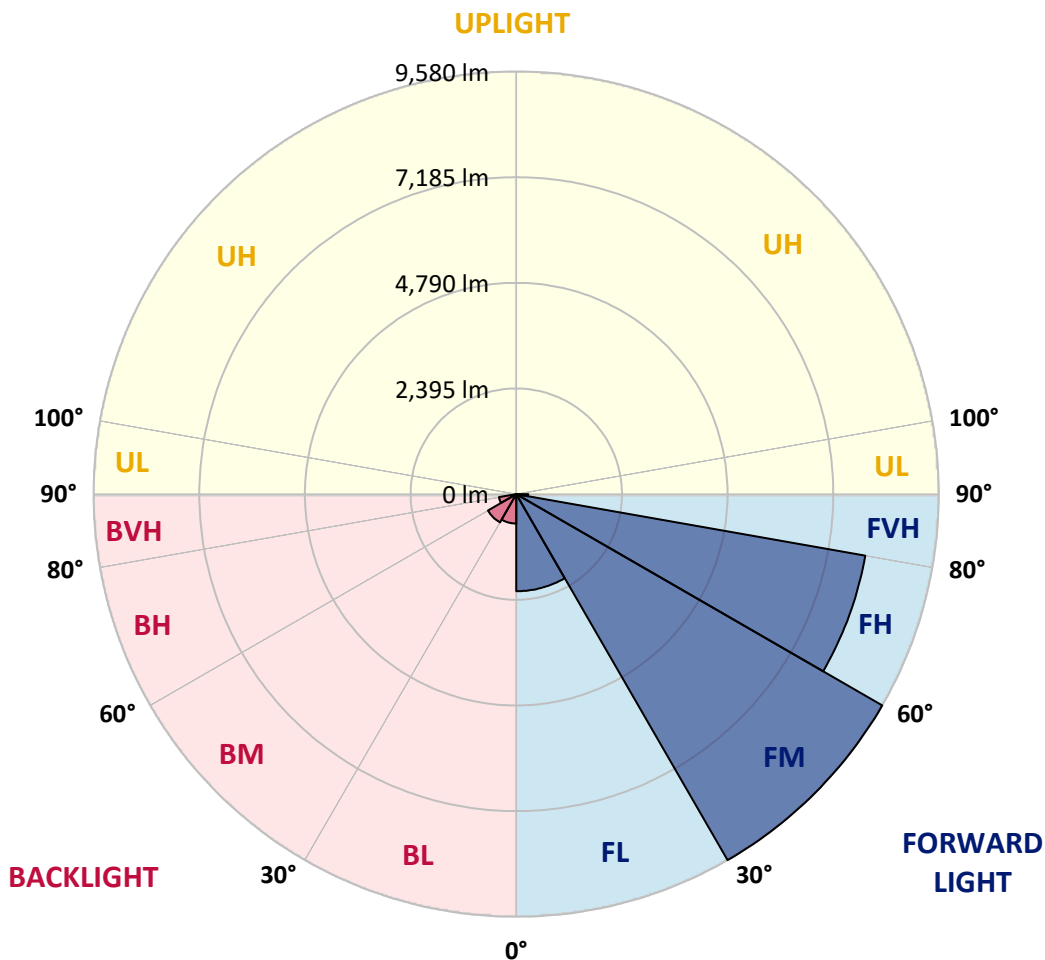
CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.7	10.1			
FM (30°-60°)	9580.1	43.8			
FH (60°-80°)	8033.6	36.7			G4/12000
FVH (80°-90°)	267.5	1.2			G3/500
BL (0°-30°)	666.4	3.0	B2/1000		
BM (30°-60°)	740.7	3.4	B1/1000		
BH (60°-80°)	397.8	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P484304

CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1
2.5°	6748.5	6771.8	6792.1	6754.3	6786.3	6739.8	6620.6	6594.5	6574.1	6396.9	6295.1
5°	6745.6	6719.5	6739.8	6757.2	6713.6	6748.5	6719.5	6722.4	6643.9	6484.0	6199.2
7.5°	6295.1	6283.5	6295.1	6379.4	6475.3	6550.9	6594.5	6638.1	6585.8	6347.4	6071.3
10°	5687.7	5745.8	5777.8	5928.9	6077.2	6216.7	6353.3	6434.6	6420.1	6324.2	5931.8
12.5°	5263.4	5245.9	5362.2	5461.0	5609.2	5891.2	6129.5	6205.0	6292.2	6158.5	5748.7
15°	4871.0	4824.5	4894.3	5065.8	5318.6	5542.4	5876.6	5990.0	6100.4	6135.3	5649.9
17.5°	4496.1	4519.4	4592.0	4746.1	4984.4	5298.3	5612.1	5774.9	6039.4	5992.9	5501.7
20°	4315.9	4365.3	4391.5	4470.0	4635.6	4949.5	5417.4	5548.2	5830.1	5990.0	5356.4
22.5°	4324.6	4324.6	4263.6	4310.1	4461.2	4705.4	5152.9	5298.3	5745.8	5838.8	5225.6
25°	4417.6	4359.5	4362.4	4307.2	4371.1	4504.8	4914.6	5091.9	5574.4	5853.4	5155.8
27.5°	4487.4	4475.8	4458.3	4443.8	4362.4	4382.8	4757.7	4903.0	5507.5	5835.9	5048.3
30°	4740.2	4687.9	4670.5	4638.5	4531.0	4432.2	4632.7	4815.8	5455.2	5876.6	4987.3
32.5°	4952.4	4961.1	4975.7	4882.7	4789.6	4545.5	4667.6	4812.9	5417.4	5969.6	5048.3
35°	5219.8	5257.6	5263.4	5234.3	5135.5	4894.3	4812.9	4937.9	5481.4	6135.3	5054.1
37.5°	5626.7	5586.0	5696.4	5708.1	5638.3	5318.6	5150.0	5199.4	5670.3	6399.8	5275.0
40°	5891.2	5940.6	6146.9	6274.8	6155.6	5865.0	5638.3	5629.6	5943.5	6815.4	5548.2
42.5°	6184.7	6295.1	6521.8	6797.9	6783.4	6513.1	6283.5	6245.7	6428.8	7417.0	5981.2
45°	6585.8	6684.6	7001.4	7417.0	7643.7	7414.1	7068.2	6992.7	7018.8	8236.6	6719.5
47.5°	7251.3	7225.2	7681.5	8091.2	8463.3	8286.0	8137.8	7916.9	7896.5	9201.5	7739.6
50°	8004.1	7998.2	8405.1	8870.1	9300.3	9646.1	9399.1	9157.9	9163.7	10512.2	8939.9
52.5°	8719.0	8832.4	9271.2	9733.3	10471.5	10843.6	11081.9	10986.0	10523.9	11683.5	10224.5
55°	9096.8	9195.7	9631.6	10427.9	11593.4	12549.6	13194.8	13113.4	12221.2	13003.0	11491.7
57.5°	8739.4	8806.2	9396.2	10439.6	12378.1	14511.4	15130.4	15028.7	13976.6	14011.5	13023.3
60°	7242.6	7347.2	8224.9	9448.5	12072.9	16022.7	17795.5	17641.5	15575.1	15287.3	14008.6
62.5°	5016.3	5086.1	5806.9	7329.8	10625.6	16548.7	20312.4	20396.7	17260.8	16281.3	14302.1
65°	3249.3	3243.5	3656.2	4687.9	7530.3	14956.0	21800.5	22323.6	18888.3	16432.4	14212.0
67°	2296.0	2287.3	2482.0	3179.5	5214.0	12322.9	21774.3	22899.1	19771.8	16476.0	13377.9
67.5°	2118.7	2110.0	2296.0	2923.8	4705.4	11459.7	21448.8	22602.6	20082.8	16415.0	13011.7
70°	1645.0	1621.7	1691.5	2014.1	2740.7	7411.2	18356.4	20762.9	19437.6	14892.1	10390.2
72.5°	1188.7	1214.8	1325.3	1653.7	2150.7	3987.5	13991.1	16789.9	16234.8	11224.3	6603.2
75°	828.3	851.6	1028.8	1348.5	1973.4	2418.1	9460.1	12177.6	11308.6	6196.3	2813.3
77.5°	433.0	462.1	656.8	1078.3	1793.2	1871.7	5652.8	7722.1	5992.9	2205.9	776.0
80°	200.5	215.1	328.4	764.4	1499.7	1645.0	3295.8	4295.6	2397.7	494.1	267.4
82.5°	87.2	95.9	151.1	438.9	1063.7	1438.6	2040.3	2252.4	869.0	159.8	165.7
85°	17.4	20.3	58.1	232.5	514.4	871.9	1432.8	1336.9	436.0	78.5	130.8
87.5°	0.0	0.0	14.5	66.8	139.5	258.7	607.4	607.4	133.7	40.7	49.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484304

CATALOG NUMBER: IFLD-L-SA7A-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1	6202.1
2.5°	6205.0	6100.4	5870.8	5658.6	5507.5	5336.0	5109.3	5007.6	4969.8	4917.5	4839.1
5°	6042.3	5914.4	5522.0	5126.8	4693.7	4365.3	4016.6	3813.1	3659.1	3563.2	3531.2
7.5°	5812.7	5551.1	5022.2	4388.6	3827.6	3339.4	2810.4	2453.0	2223.3	2130.3	2043.2
10°	5629.6	5289.5	4484.5	3696.9	2949.9	2235.0	1639.2	1325.3	1087.0	996.9	985.2
12.5°	5391.3	4984.4	3981.7	2990.6	2051.9	1331.1	906.8	787.6	720.8	709.1	700.4
15°	5193.6	4708.3	3505.0	2316.4	1328.2	831.2	706.2	677.2	659.7	653.9	656.8
17.5°	5059.9	4411.8	3016.8	1685.7	874.8	680.1	651.0	633.6	624.9	622.0	613.2
20°	4795.5	4161.9	2534.3	1180.0	683.0	627.8	604.5	590.0	581.3	578.4	575.5
22.5°	4644.3	3845.1	2051.9	822.5	607.4	569.6	552.2	540.6	526.0	517.3	514.4
25°	4493.2	3612.6	1621.7	639.4	552.2	526.0	499.9	485.4	462.1	450.5	447.6
27.5°	4315.9	3383.0	1249.7	555.1	497.0	470.8	444.7	421.4	392.4	380.7	374.9
30°	4214.2	3159.2	941.7	497.0	456.3	421.4	389.4	360.4	328.4	308.1	302.3
32.5°	4161.9	2955.7	706.2	453.4	412.7	374.9	334.2	299.4	270.3	252.9	249.9
35°	4097.9	2758.1	555.1	412.7	372.0	331.3	290.6	255.8	226.7	212.2	206.4
37.5°	4164.8	2641.9	462.1	380.7	340.0	293.5	249.9	215.1	191.8	177.3	174.4
40°	4347.9	2546.0	401.1	351.7	308.1	258.7	218.0	183.1	162.8	151.1	145.3
42.5°	4629.8	2546.0	363.3	322.6	279.0	226.7	186.0	159.8	139.5	127.9	125.0
45°	5141.3	2624.4	331.3	293.5	244.1	194.7	159.8	133.7	113.3	101.7	98.8
47.5°	5859.2	2804.6	305.2	267.4	218.0	171.5	139.5	113.3	93.0	81.4	78.5
50°	6824.1	3214.4	279.0	235.4	194.7	148.2	116.3	90.1	72.7	61.0	58.1
52.5°	8027.3	3795.7	252.9	218.0	165.7	125.0	93.0	72.7	55.2	46.5	43.6
55°	9300.3	4507.7	220.9	194.7	142.4	104.6	75.6	55.2	40.7	34.9	32.0
57.5°	10582.0	5057.0	194.7	168.6	116.3	84.3	61.0	43.6	29.1	23.3	20.3
60°	11262.1	5109.3	168.6	139.5	93.0	66.8	46.5	32.0	20.3	14.5	11.6
62.5°	11366.7	4644.3	145.3	113.3	75.6	52.3	32.0	23.3	11.6	5.8	5.8
65°	10829.0	3871.2	125.0	90.1	58.1	37.8	23.3	14.5	5.8	2.9	0.0
67°	9957.1	3243.5	107.5	75.6	46.5	29.1	17.4	8.7	2.9	0.0	0.0
67.5°	9620.0	3069.1	101.7	69.8	43.6	26.2	14.5	8.7	2.9	0.0	0.0
70°	7466.4	2191.4	75.6	49.4	32.0	20.3	11.6	5.8	0.0	0.0	0.0
72.5°	4574.6	1281.7	58.1	34.9	23.3	14.5	8.7	2.9	0.0	0.0	0.0
75°	1918.2	441.8	49.4	26.2	17.4	8.7	5.8	2.9	0.0	0.0	0.0
77.5°	499.9	165.7	34.9	17.4	11.6	8.7	5.8	2.9	0.0	0.0	0.0
80°	203.4	75.6	23.3	11.6	11.6	8.7	5.8	2.9	0.0	0.0	0.0
82.5°	133.7	34.9	14.5	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	101.7	20.3	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	43.6	11.6	8.7	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
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)