

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: P253982

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-AF24-70-D-U-T2U-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN  
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO  
COMPETITIVE OFFERINGS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

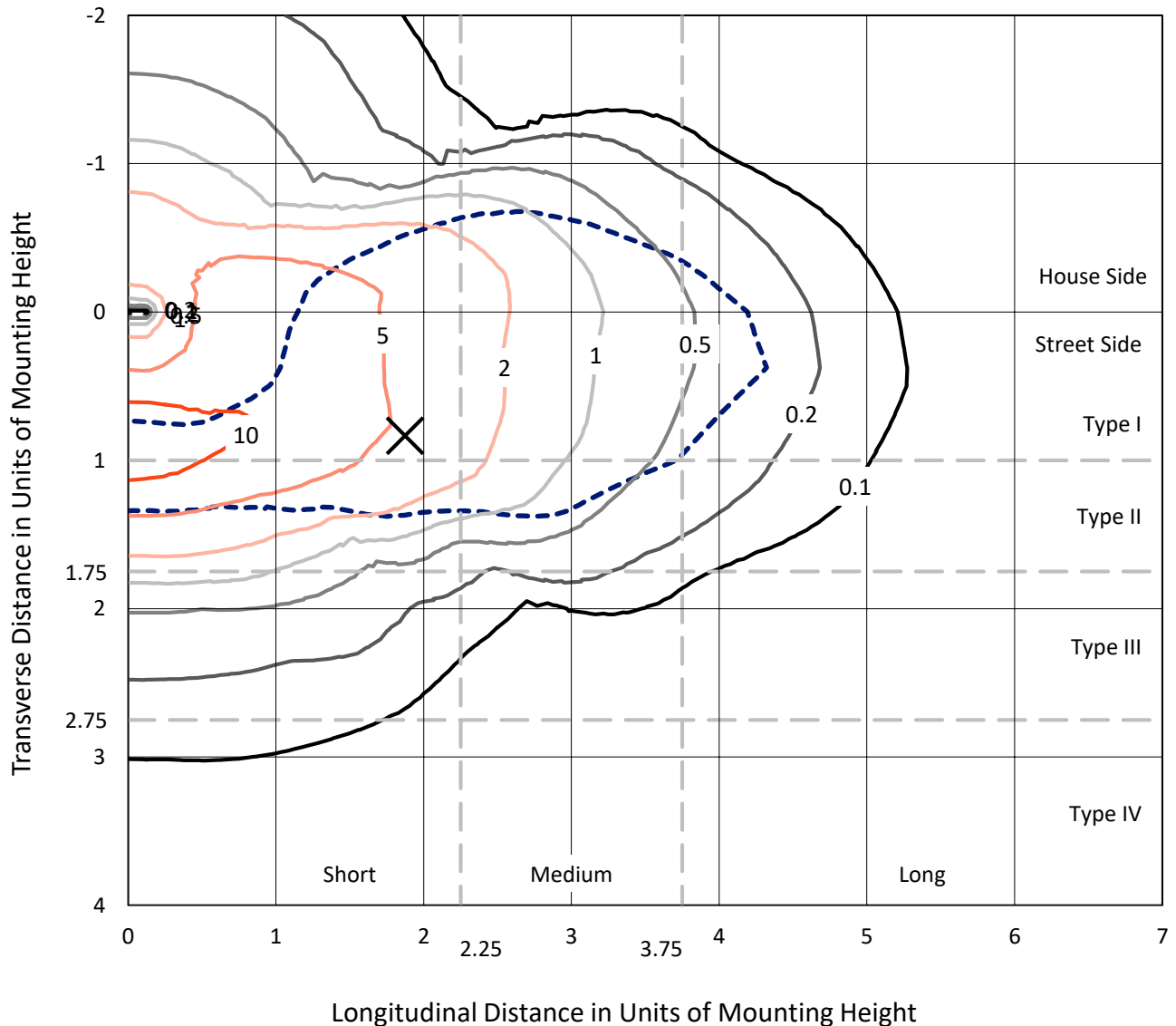
Lumens per Lamp: N/A  
Luminaire Lumens: 7143.4 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (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

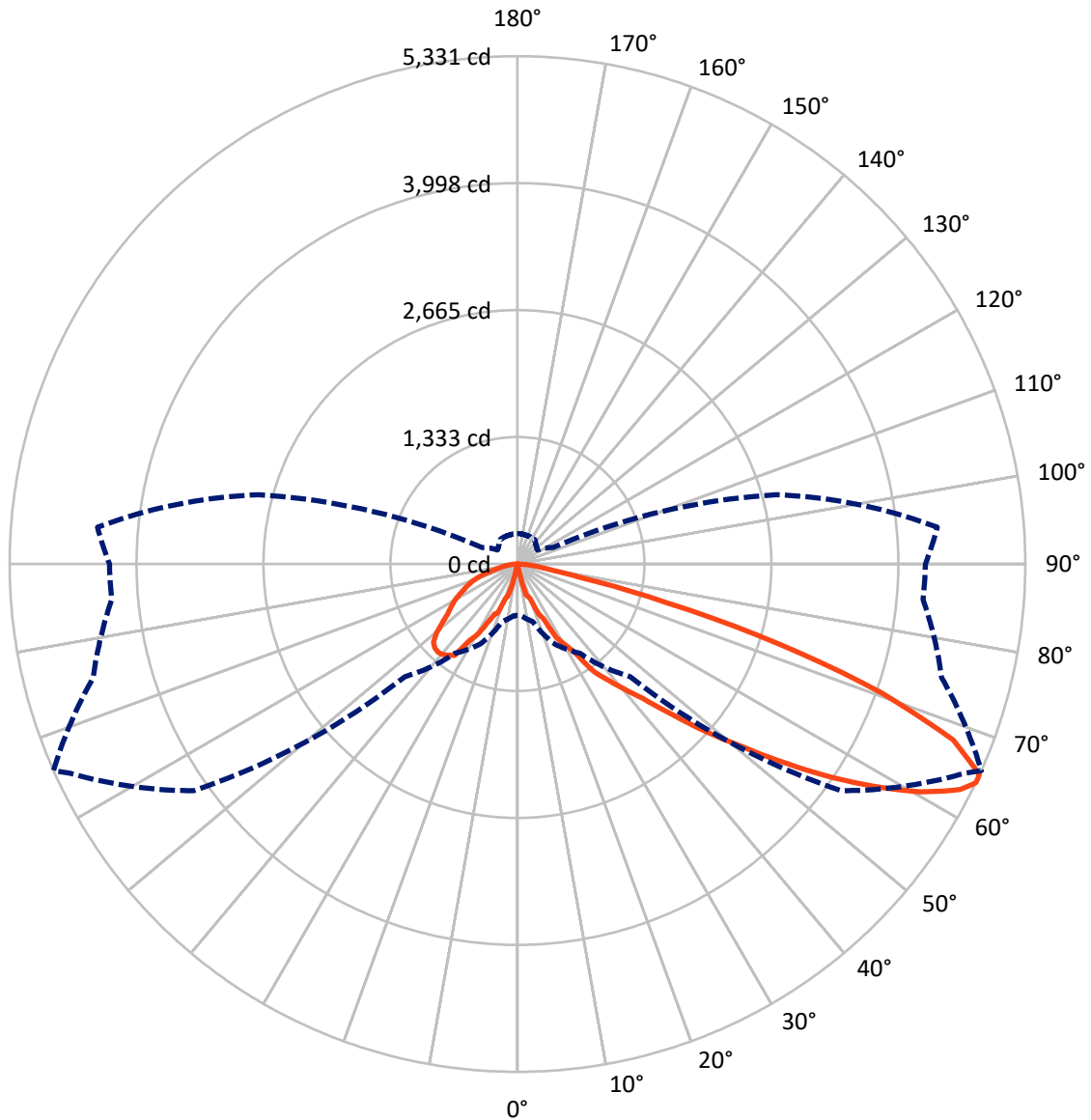
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical



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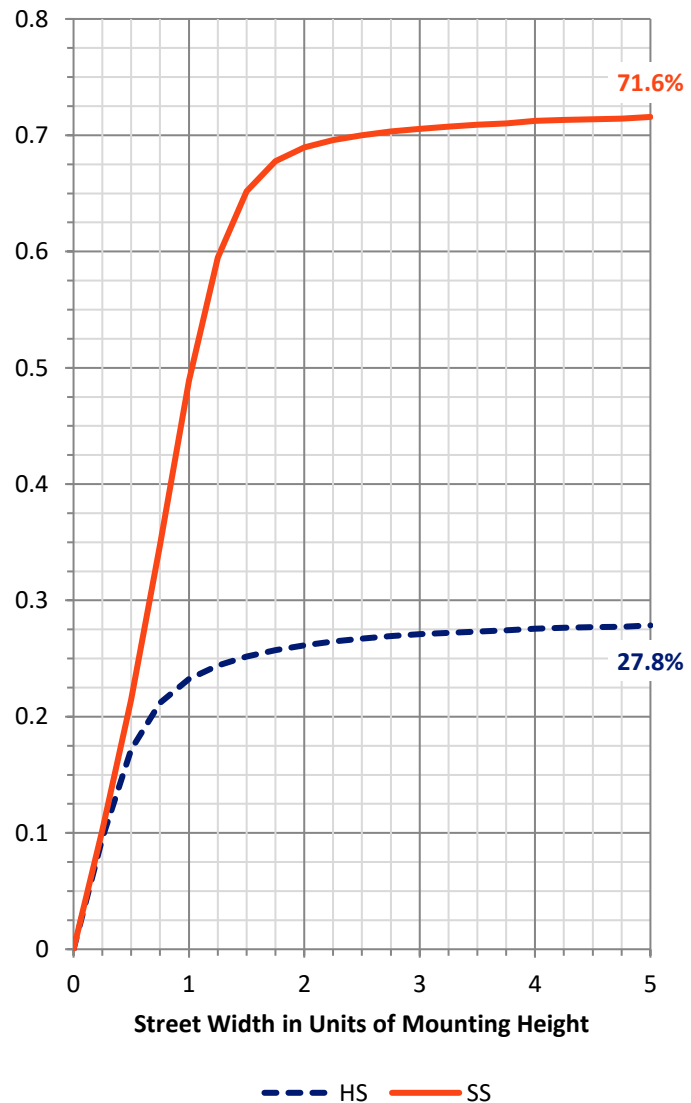
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2011.9	0.0	2011.9
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	5131.5	0.0	5131.5
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	7143.4	0.0	7143.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	78.8	1.1
20°-30°	306.0	4.3
30°-40°	757.1	10.6
40°-50°	1424.0	19.9
50°-60°	1889.1	26.4
60°-70°	1700.7	23.8
70°-80°	868.5	12.2
80°-90°	113.8	1.6
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°	7143.4	100.0
0°-180°	7143.4	100.0



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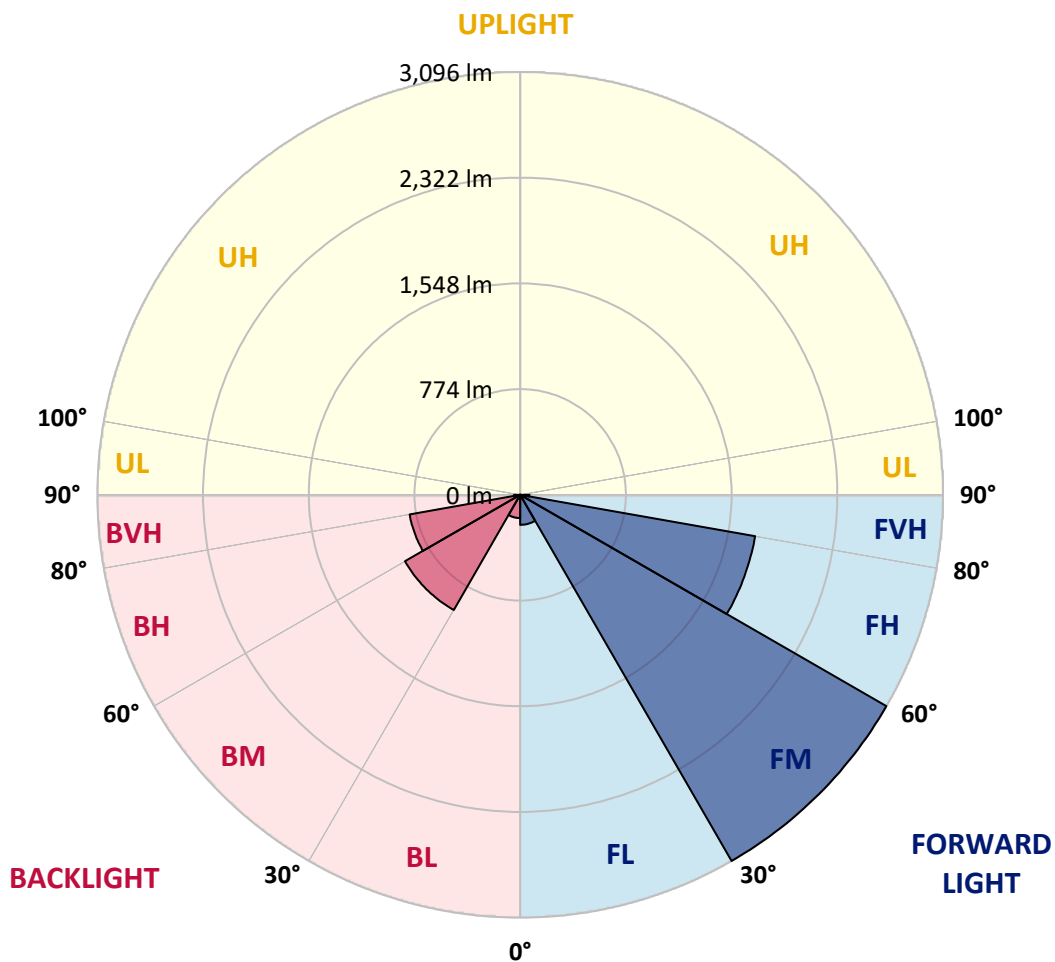
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.9	3.1			
FM	(30°-60°)	3096.3	43.3			
FH	(60°-80°)	1747.2	24.5			G1/1800
FVH	(80°-90°)	68.0	1.0			G1/100
BL	(0°-30°)	170.3	2.4	B1/500		
BM	(30°-60°)	973.8	13.6	B1/1000		
BH	(60°-80°)	822.1	11.5	B2/1000		G2/1000
BVH	(80°-90°)	45.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	3.3	2.4	3.3	4.1	4.1	3.3	2.4	0.8	0.8	0.0	0.0
5°	152.4	149.1	103.7	40.5	21.1	11.4	5.7	2.4	1.6	0.8	0.8
7.5°	158.9	158.9	158.9	160.5	157.3	152.4	25.9	5.7	4.9	1.6	0.8
10°	162.1	161.2	159.6	161.2	159.6	159.6	156.5	20.2	18.7	6.4	4.9
12.5°	304.8	303.0	293.4	189.7	166.2	166.2	166.9	136.1	137.0	43.8	112.6
15°	318.5	317.7	313.7	315.3	305.6	182.4	256.1	328.3	331.5	230.2	260.1
17.5°	354.2	348.5	335.5	331.5	327.4	373.6	358.3	357.4	357.4	268.2	282.9
20°	547.9	540.7	533.3	431.1	359.9	475.8	440.1	386.6	389.8	457.1	484.7
22.5°	629.8	624.1	612.7	589.2	614.4	513.1	538.2	563.2	566.5	597.3	551.1
25°	857.4	862.4	802.4	687.2	740.8	638.6	689.8	621.6	638.6	649.2	681.6
27.5°	1109.5	1092.5	1073.9	977.5	842.9	898.0	760.2	812.9	876.1	885.0	830.0
30°	1412.6	1389.1	1240.8	1230.3	1078.7	1010.6	983.2	997.6	980.7	929.6	930.5
32.5°	1782.2	1768.5	1703.6	1504.3	1364.8	1159.0	1197.1	1093.3	1103.1	1208.4	1226.2
35°	2296.1	2272.6	1963.0	1856.0	1579.7	1487.2	1338.9	1381.9	1393.2	1373.0	1349.5
37.5°	2885.3	2864.2	2621.1	2185.8	1909.6	1697.2	1652.5	1576.4	1546.3	1550.5	1558.6
40°	3233.0	3218.4	3003.6	2640.6	2243.4	2019.6	1874.7	1770.1	1723.1	1782.2	1765.2
42.5°	3481.8	3460.8	3337.6	2983.4	2698.9	2476.1	2142.9	2005.1	1929.0	2056.1	1998.7
45°	3630.9	3599.3	3538.6	3216.8	3071.8	2993.0	2503.5	2279.0	2222.4	2317.9	2275.9
47.5°	3585.6	3533.7	3571.8	3381.3	3374.8	3450.2	2925.0	2595.1	2593.5	2627.5	2596.0
50°	3304.3	3267.1	3380.5	3401.6	3562.8	3812.5	3438.8	2951.0	2970.4	2957.4	2920.9
52.5°	2784.0	2792.1	2972.1	3145.5	3546.7	4028.1	3947.9	3370.0	3423.4	3280.8	3220.9
55°	2245.1	2272.6	2466.3	2682.7	3289.7	4080.0	4390.4	3832.7	3921.9	3595.2	3502.9
57.5°	1703.6	1740.9	1971.9	2134.0	2777.5	3900.9	4653.0	4268.0	4398.4	3895.2	3765.5
60°	1084.4	1107.2	1391.6	1663.9	2071.5	3294.6	4714.5	4711.3	4856.3	4199.9	3998.9
62.5°	701.9	714.9	835.7	1199.5	1440.2	2300.1	4513.5	5067.9	5216.2	4496.6	4199.1
64°	537.3	548.7	625.7	925.5	1142.8	1672.0	4148.0	5190.3	5330.5	4609.2	4273.6
65°	466.9	474.0	530.9	754.6	972.6	1311.3	3788.1	5193.5	5328.0	4641.6	4286.6
67.5°	388.2	390.6	411.7	477.4	687.2	731.1	2390.9	4807.7	4934.1	4572.0	4183.6
70°	351.7	356.6	384.1	389.1	530.9	505.8	890.7	3956.0	4058.1	4384.7	3955.1
72.5°	303.0	308.7	344.5	373.6	411.0	401.2	450.5	2778.4	2886.9	3796.3	3694.9
75°	247.2	252.8	287.0	329.9	344.5	315.3	354.2	1427.3	1609.6	2805.9	3306.7
77.5°	196.1	201.8	228.6	259.4	310.4	241.6	282.9	547.1	654.0	1743.3	2459.8
80°	139.5	142.7	171.0	196.1	234.3	209.1	205.9	299.1	314.4	866.4	1238.5
82.5°	85.9	88.4	114.2	131.3	156.5	209.1	147.5	205.9	210.8	364.0	379.3
85°	47.8	49.3	69.0	74.6	86.8	106.2	98.9	112.6	116.0	162.1	95.6
87.5°	5.7	7.3	16.2	17.8	16.2	17.8	17.8	16.2	17.1	14.6	8.0
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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
5°	0.8	0.8	1.6	1.6	2.4	2.4	3.3	4.9	4.9	4.9	5.7
7.5°	0.8	0.8	1.6	2.4	3.3	8.0	40.5	140.2	158.0	163.7	163.7
10°	4.9	4.9	4.9	5.7	16.2	158.0	177.5	183.1	185.6	185.6	187.3
12.5°	124.0	124.0	66.4	25.9	148.3	184.7	188.8	192.9	195.3	197.8	201.0
15°	261.7	262.6	255.3	250.4	264.2	199.4	201.8	325.0	338.8	344.5	345.3
17.5°	284.5	282.9	284.5	362.3	381.8	298.3	333.1	355.7	358.3	359.0	359.0
20°	510.6	508.2	403.6	383.4	391.4	495.2	359.0	359.9	403.6	468.5	488.7
22.5°	547.9	543.0	513.8	560.1	513.8	505.8	456.2	471.7	486.3	484.7	483.9
25°	690.5	676.8	566.5	578.6	650.8	512.2	547.9	455.5	463.6	466.0	466.9
27.5°	849.4	833.2	796.7	680.8	663.8	640.3	513.1	475.8	528.4	530.0	526.8
30°	907.7	885.9	833.2	851.7	709.9	603.7	492.0	503.3	476.6	475.8	476.6
32.5°	1233.5	1193.8	1091.7	923.1	749.7	546.3	484.7	449.0	479.0	487.1	487.1
35°	1349.5	1297.6	1209.3	1158.1	718.9	530.0	424.7	433.6	435.2	433.6	434.5
37.5°	1501.8	1433.7	1353.5	1180.1	740.8	461.2	405.3	402.0	433.6	439.3	441.7
40°	1679.4	1614.6	1539.9	1197.9	664.7	423.9	388.2	402.0	411.0	412.6	414.2
42.5°	1904.6	1814.7	1715.0	1194.6	565.8	406.9	385.0	385.0	395.5	392.2	392.2
45°	2161.5	2046.4	1879.5	1163.8	468.5	391.4	376.8	371.2	376.1	369.7	369.7
47.5°	2450.0	2323.6	2002.7	1116.0	412.6	377.7	369.7	351.7	363.1	361.4	361.4
50°	2755.6	2623.6	2117.8	1008.3	377.7	365.5	350.9	346.9	361.4	358.3	357.4
52.5°	3049.0	2934.7	2205.3	861.5	347.7	354.2	344.5	342.8	355.7	352.6	351.7
55°	3330.2	3263.8	2314.7	737.5	321.0	333.9	342.0	342.0	350.1	346.9	346.9
57.5°	3604.3	3617.1	2444.3	652.4	300.7	317.7	338.8	337.9	342.8	340.5	341.2
60°	3883.0	3967.3	2574.0	572.2	284.5	299.1	332.2	330.7	333.1	332.2	333.1
62.5°	4147.3	4285.8	2731.3	469.3	266.6	284.5	321.8	323.4	322.6	325.0	325.0
64°	4282.5	4424.4	2809.2	409.2	256.1	275.6	313.7	316.1	315.3	320.1	319.4
65°	4335.3	4475.5	2836.7	373.6	249.6	269.9	308.0	311.2	310.4	316.1	313.7
67.5°	4320.6	4415.5	2803.5	308.0	232.6	254.5	292.6	298.3	295.9	304.0	298.3
70°	4167.4	4088.8	2540.1	268.2	218.8	237.4	273.1	280.5	276.4	284.5	274.8
72.5°	3880.6	3528.8	1976.7	232.6	203.4	220.4	251.3	258.5	255.3	258.5	248.0
75°	3245.1	2721.5	1156.5	201.8	183.1	197.0	225.3	232.6	229.3	222.2	218.0
77.5°	2256.4	1720.7	457.1	176.7	164.6	172.6	192.1	198.6	193.7	180.0	177.5
80°	1076.3	767.5	219.6	153.2	142.7	147.5	157.3	159.6	158.9	145.1	138.5
82.5°	329.9	251.3	151.6	123.3	116.0	114.2	124.0	120.7	119.1	109.4	85.9
85°	74.6	73.8	85.1	76.2	72.9	65.7	74.6	72.1	70.5	52.7	45.4
87.5°	2.4	4.9	4.1	10.5	11.4	9.0	14.6	15.4	11.4	4.9	0.8
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)