

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: P253983

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253983  
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-AF24-80-D-U-T2U-7030  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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**

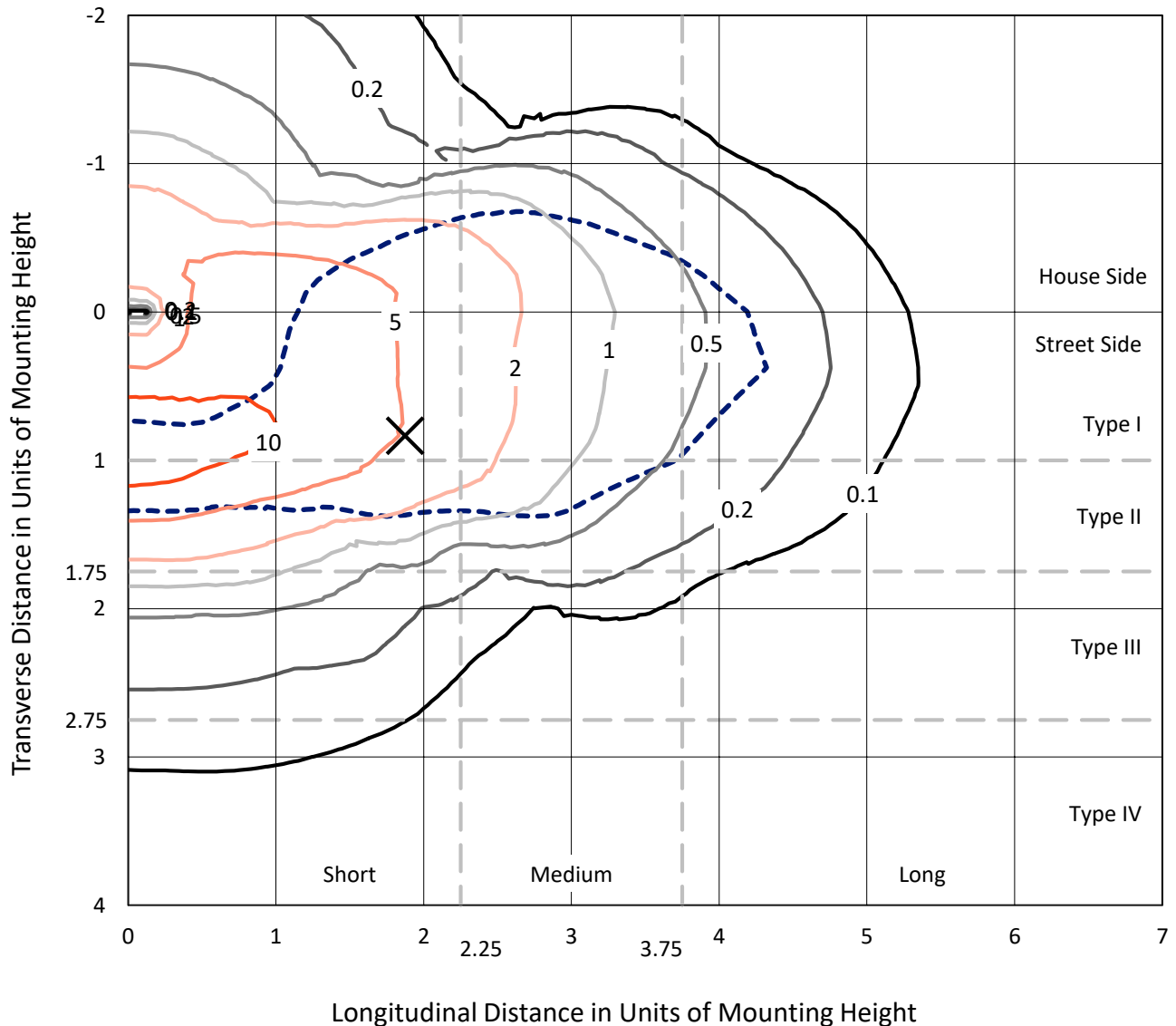
Lumens per Lamp: N/A  
Luminaire Lumens: 7808.7 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (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

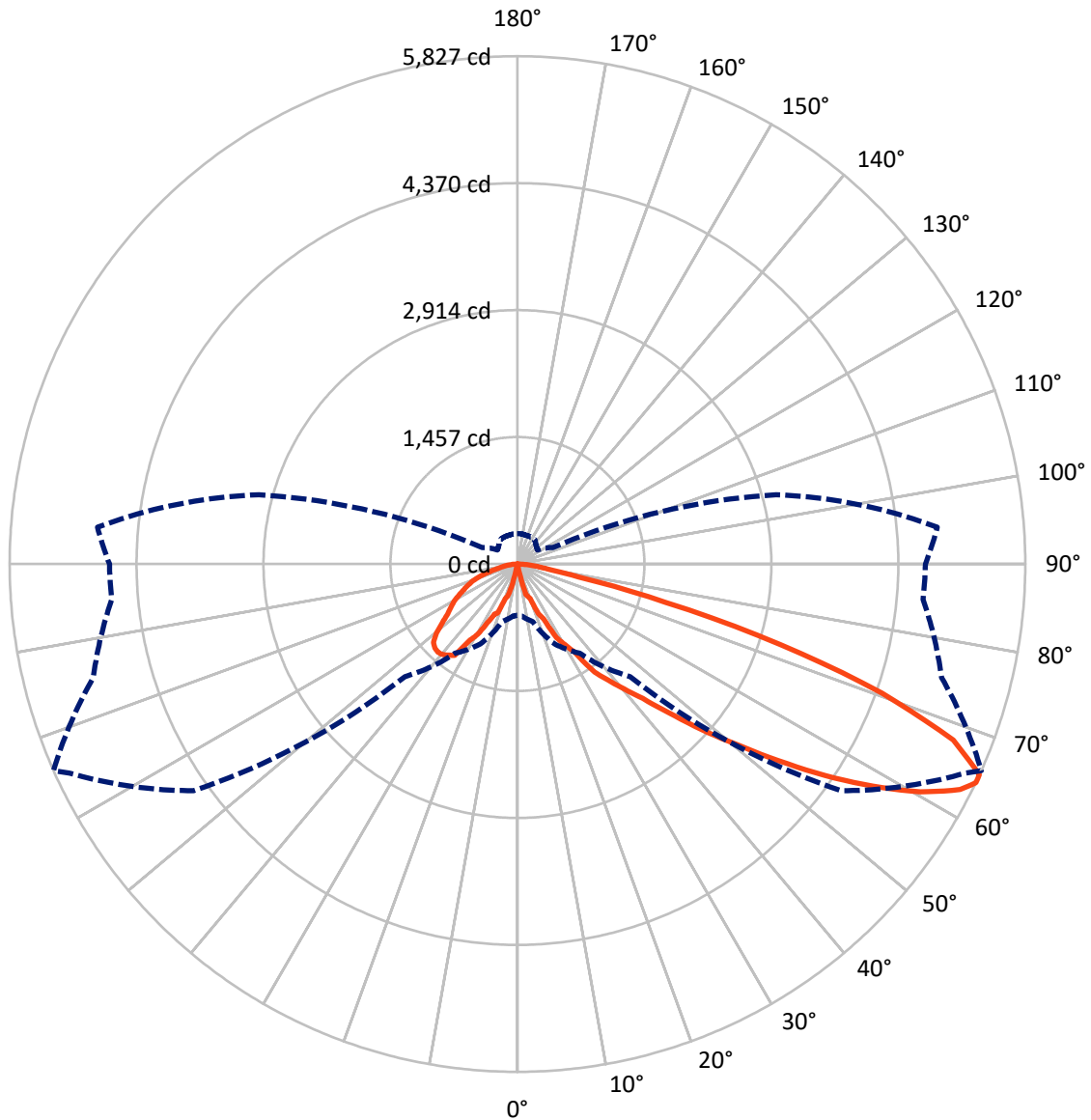
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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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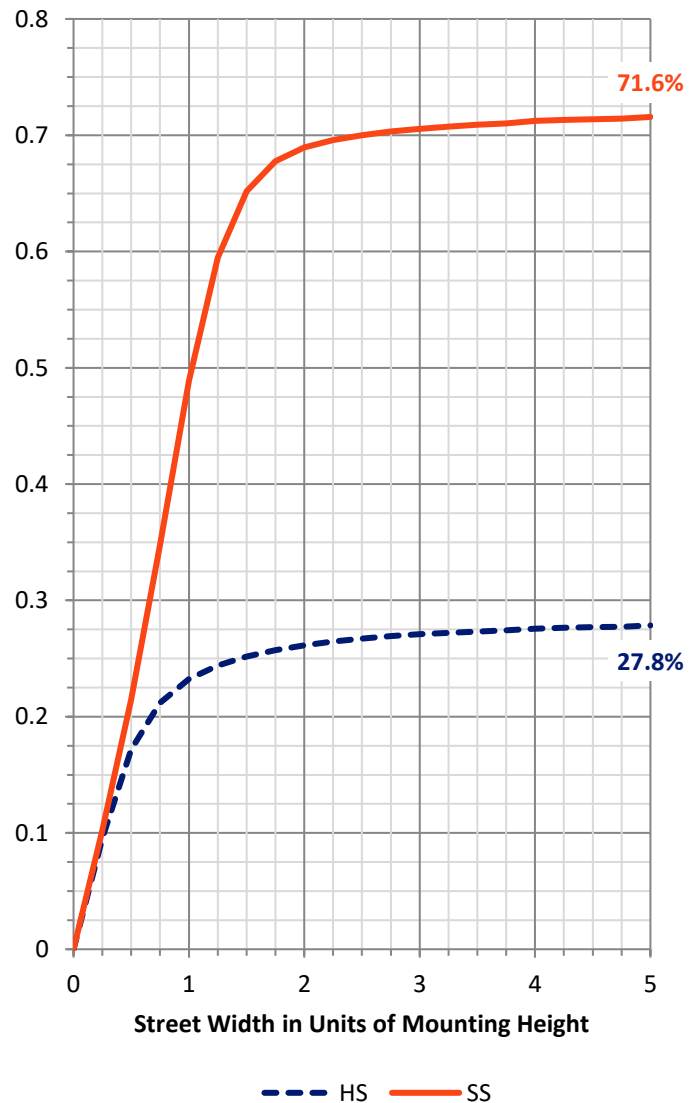
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2199.3	0.0	2199.3
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	5609.4	0.0	5609.4
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	7808.7	0.0	7808.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	86.1	1.1
20°-30°	334.6	4.3
30°-40°	827.6	10.6
40°-50°	1556.6	19.9
50°-60°	2065.0	26.4
60°-70°	1859.2	23.8
70°-80°	949.4	12.2
80°-90°	124.4	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°	7808.7	100.0
0°-180°	7808.7	100.0



REPORT NUMBER: P253983

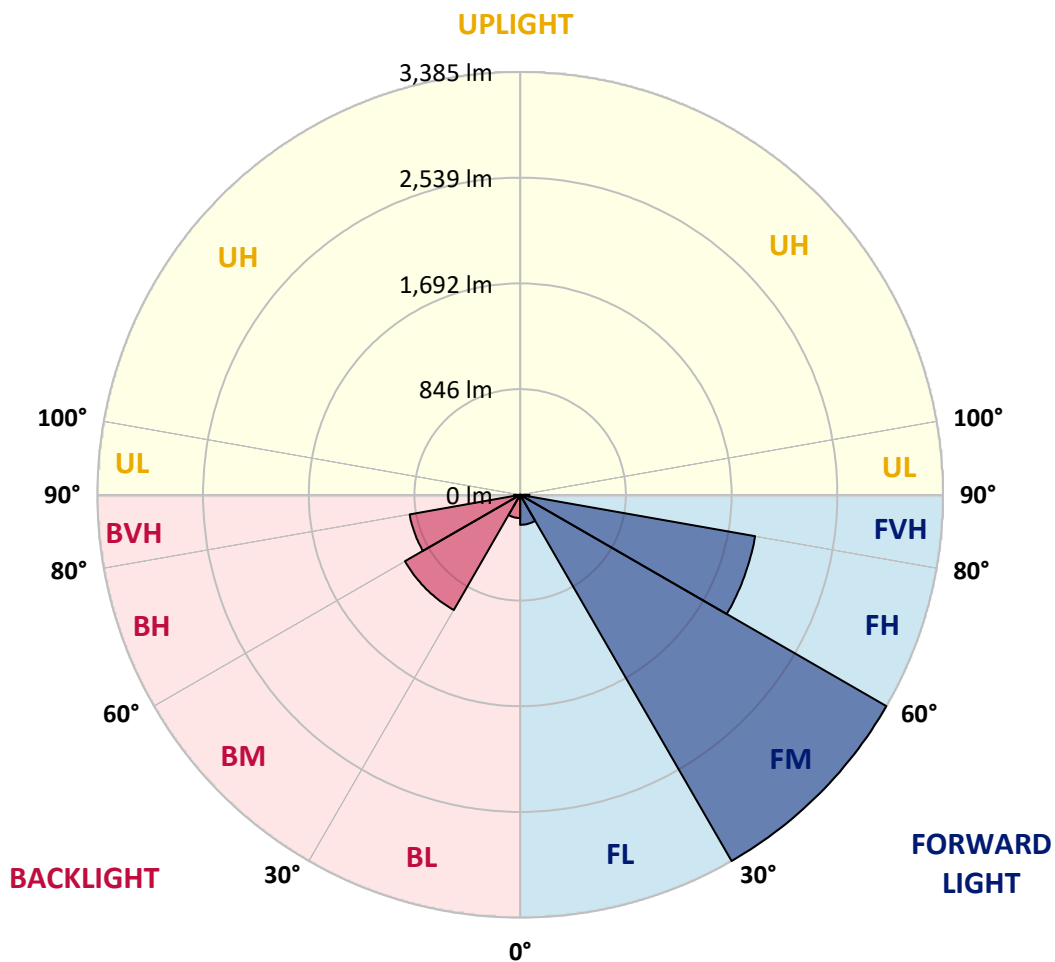
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.4	3.1			
FM (30°-60°)	3384.7	43.3			
FH (60°-80°)	1909.9	24.5			G2/5000
FVH (80°-90°)	74.4	1.0			G1/100
BL (0°-30°)	186.2	2.4	B1/500		
BM (30°-60°)	1064.5	13.6	B2/2500		
BH (60°-80°)	898.6	11.5	B2/1000		G2/1000
BVH (80°-90°)	50.1	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	3.5	2.6	3.5	4.5	4.5	3.5	2.6	0.9	0.9	0.0	0.0
5°	166.5	163.1	113.4	44.2	23.1	12.4	6.2	2.6	1.7	0.9	0.9
7.5°	173.6	173.6	173.6	175.5	171.9	166.5	28.3	6.2	5.4	1.7	0.9
10°	177.2	176.4	174.5	176.4	174.5	174.5	171.0	22.2	20.4	7.1	5.4
12.5°	333.1	331.4	320.6	207.3	181.6	181.6	182.5	148.8	149.6	47.8	123.1
15°	348.2	347.3	342.8	344.6	334.0	199.4	279.9	358.8	362.4	251.7	284.4
17.5°	387.3	381.0	366.8	362.4	358.0	408.4	391.5	390.7	390.7	293.3	309.2
20°	599.0	591.0	583.0	471.4	393.4	520.1	481.1	422.7	426.1	499.7	529.8
22.5°	688.5	682.3	669.8	644.1	671.6	560.8	588.3	615.7	619.3	653.0	602.4
25°	937.3	942.7	877.2	751.2	809.8	698.1	754.0	679.6	698.1	709.6	745.1
27.5°	1212.9	1194.3	1173.9	1068.4	921.4	981.7	831.0	888.6	957.7	967.5	907.3
30°	1544.3	1518.6	1356.5	1344.9	1179.2	1104.8	1074.7	1090.6	1072.1	1016.2	1017.1
32.5°	1948.2	1933.3	1862.4	1644.4	1491.9	1267.0	1308.6	1195.2	1205.7	1321.0	1340.5
35°	2509.9	2484.2	2145.9	2028.8	1726.8	1625.8	1463.6	1510.6	1523.0	1500.7	1475.1
37.5°	3154.1	3131.1	2865.3	2389.5	2087.4	1855.2	1806.5	1723.2	1690.5	1694.8	1703.7
40°	3534.1	3518.1	3283.5	2886.5	2452.4	2207.8	2049.2	1935.0	1883.6	1948.2	1929.6
42.5°	3806.1	3783.1	3648.3	3261.3	2950.3	2706.7	2342.5	2191.8	2108.6	2247.7	2184.8
45°	3969.2	3934.7	3868.1	3516.4	3357.9	3271.9	2736.7	2491.3	2429.4	2533.8	2487.9
47.5°	3919.5	3862.9	3904.5	3696.2	3689.1	3771.6	3197.5	2836.9	2835.1	2872.3	2837.8
50°	3612.1	3571.3	3695.3	3718.4	3894.8	4167.5	3759.2	3225.8	3247.0	3232.9	3193.0
52.5°	3043.3	3052.1	3248.9	3438.5	3877.1	4403.2	4315.5	3683.9	3742.3	3586.4	3520.9
55°	2454.2	2484.2	2696.0	2932.5	3596.2	4460.0	4799.3	4189.8	4287.3	3930.2	3829.2
57.5°	1862.4	1903.1	2155.5	2332.8	3036.2	4264.2	5086.3	4665.5	4808.2	4258.0	4116.3
60°	1185.5	1210.3	1521.2	1818.9	2264.5	3601.5	5153.6	5150.2	5308.7	4591.1	4371.4
62.5°	767.2	781.4	913.4	1311.2	1574.4	2514.4	4933.9	5540.0	5702.1	4915.3	4590.2
64°	587.4	599.9	684.0	1011.7	1249.3	1827.8	4534.4	5673.8	5827.1	5038.5	4671.7
65°	510.4	518.3	580.2	824.8	1063.2	1433.5	4141.0	5677.3	5824.4	5074.0	4685.9
67.5°	424.4	426.9	450.0	521.8	751.2	799.1	2613.6	5255.6	5393.8	4997.7	4573.4
70°	384.5	389.8	420.0	425.2	580.2	552.9	973.7	4324.5	4436.0	4793.1	4323.5
72.5°	331.4	337.5	376.5	408.4	449.2	438.5	492.6	3037.1	3155.9	4149.8	4039.1
75°	270.2	276.4	313.7	360.5	376.5	344.6	387.3	1560.2	1759.5	3067.2	3614.8
77.5°	214.3	220.6	249.8	283.5	339.4	264.0	309.2	598.0	715.0	1905.7	2688.9
80°	152.4	155.9	187.0	214.3	256.0	228.6	225.1	326.9	343.7	947.1	1353.7
82.5°	94.0	96.5	124.9	143.5	171.0	228.6	161.2	225.1	230.3	397.8	414.6
85°	52.2	54.1	75.3	81.5	94.8	116.1	108.0	123.1	126.7	177.2	104.6
87.5°	6.2	7.9	17.7	19.4	17.7	19.4	19.4	17.7	18.6	16.0	8.8
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	0.9	0.9	0.9	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0
5°	0.9	0.9	1.7	1.7	2.6	2.6	3.5	5.4	5.4	5.4	6.2
7.5°	0.9	0.9	1.7	2.6	3.5	8.8	44.2	153.3	172.7	178.9	178.9
10°	5.4	5.4	5.4	6.2	17.7	172.7	194.1	200.3	202.9	202.9	204.7
12.5°	135.6	135.6	72.6	28.3	162.1	202.0	206.4	210.9	213.5	216.3	219.7
15°	286.2	287.1	279.0	273.8	288.8	218.0	220.6	355.3	370.4	376.5	377.4
17.5°	311.0	309.2	311.0	396.1	417.3	326.0	364.2	389.0	391.5	392.5	392.5
20°	558.2	555.5	441.2	419.1	428.0	541.4	392.5	393.4	441.2	512.1	534.3
22.5°	599.0	593.6	561.7	612.2	561.7	552.9	498.8	515.6	531.5	529.8	529.0
25°	754.9	739.8	619.3	632.6	711.4	560.0	599.0	497.9	506.8	509.4	510.4
27.5°	928.4	910.7	870.9	744.2	725.6	700.0	560.8	520.1	577.7	579.4	575.9
30°	992.3	968.4	910.7	931.1	776.1	660.0	537.8	550.2	520.9	520.1	520.9
32.5°	1348.5	1305.0	1193.4	1009.1	819.6	597.1	529.8	490.8	523.6	532.4	532.4
35°	1475.1	1418.4	1321.8	1266.1	785.9	579.4	464.3	473.9	475.8	473.9	474.8
37.5°	1641.7	1567.4	1479.6	1290.1	809.8	504.1	442.9	439.4	473.9	480.2	482.8
40°	1835.8	1764.9	1683.3	1309.5	726.5	463.4	424.4	439.4	449.2	450.9	452.8
42.5°	2082.1	1983.7	1874.7	1305.9	618.4	444.8	420.8	420.8	432.3	428.9	428.9
45°	2362.8	2237.1	2054.6	1272.3	512.1	428.0	412.0	405.8	411.2	404.0	404.0
47.5°	2678.3	2540.1	2189.2	1220.0	450.9	412.9	404.0	384.5	396.9	395.2	395.2
50°	3012.3	2867.8	2315.1	1102.1	412.9	399.6	383.6	379.2	395.2	391.5	390.7
52.5°	3333.1	3208.1	2410.7	941.9	380.1	387.3	376.5	374.8	389.0	385.3	384.5
55°	3640.4	3567.9	2530.3	806.3	350.8	365.0	373.8	373.8	382.7	379.2	379.2
57.5°	3939.9	3954.1	2672.1	713.3	328.7	347.3	370.4	369.4	374.8	372.1	373.0
60°	4244.7	4336.8	2813.9	625.5	311.0	326.9	363.3	361.4	364.2	363.3	364.2
62.5°	4533.5	4685.0	2985.7	513.0	291.5	311.0	351.7	353.5	352.6	355.3	355.3
64°	4681.4	4836.5	3070.7	447.4	279.9	301.2	342.8	345.5	344.6	349.9	349.1
65°	4739.0	4892.3	3100.9	408.4	272.9	295.0	336.6	340.3	339.4	345.5	342.8
67.5°	4723.2	4826.7	3064.6	336.6	254.2	278.2	319.8	326.0	323.4	332.2	326.0
70°	4555.7	4469.7	2776.6	293.3	239.2	259.6	298.6	306.6	302.1	311.0	300.4
72.5°	4242.0	3857.5	2160.9	254.2	222.4	241.0	274.7	282.7	279.0	282.7	271.1
75°	3547.4	2975.1	1264.2	220.6	200.3	215.2	246.3	254.2	250.7	242.8	238.3
77.5°	2466.5	1880.9	499.7	193.2	179.8	188.7	210.0	217.1	211.8	196.6	194.1
80°	1176.6	839.0	240.2	167.5	155.9	161.2	171.9	174.5	173.6	158.5	151.6
82.5°	360.5	274.7	165.6	134.7	126.7	124.9	135.6	131.9	130.2	119.6	94.0
85°	81.5	80.7	93.0	83.2	79.8	71.8	81.5	78.8	77.0	57.6	49.6
87.5°	2.6	5.4	4.5	11.5	12.4	9.8	16.0	16.8	12.4	5.4	0.9
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)