

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: P266150

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266150  
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-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 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**

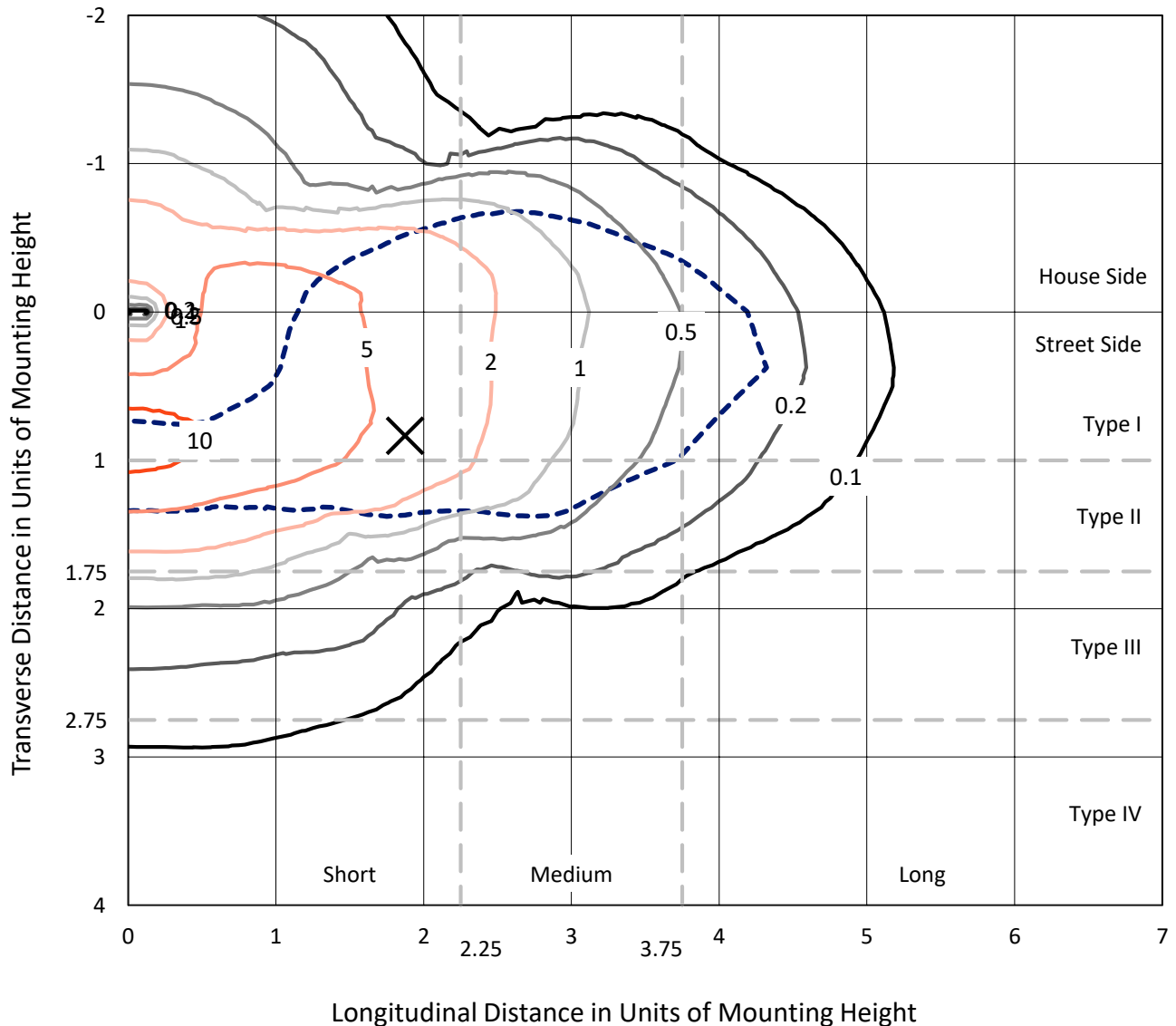
Lumens per Lamp: N/A  
Luminaire Lumens: 6417 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (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

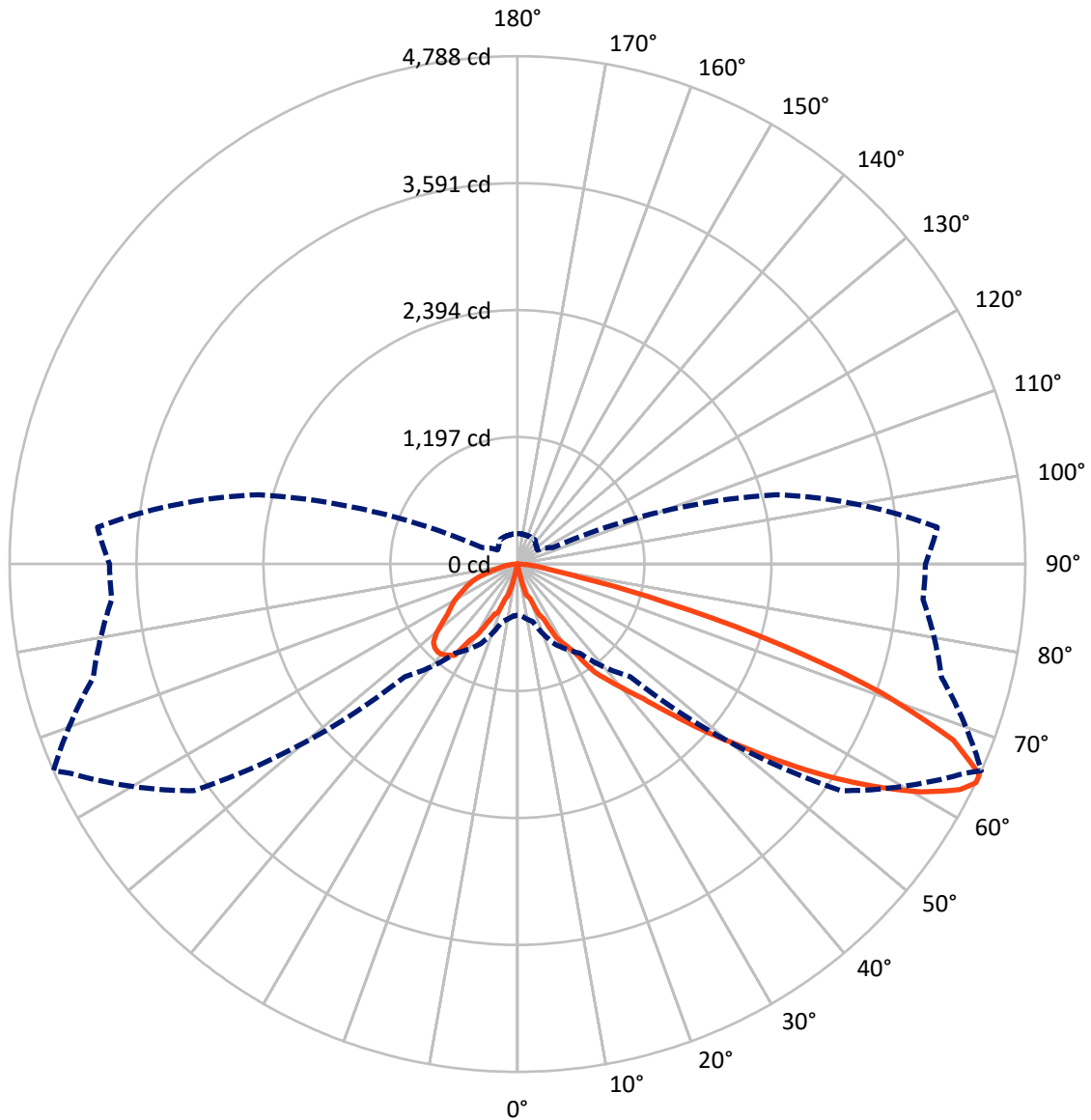
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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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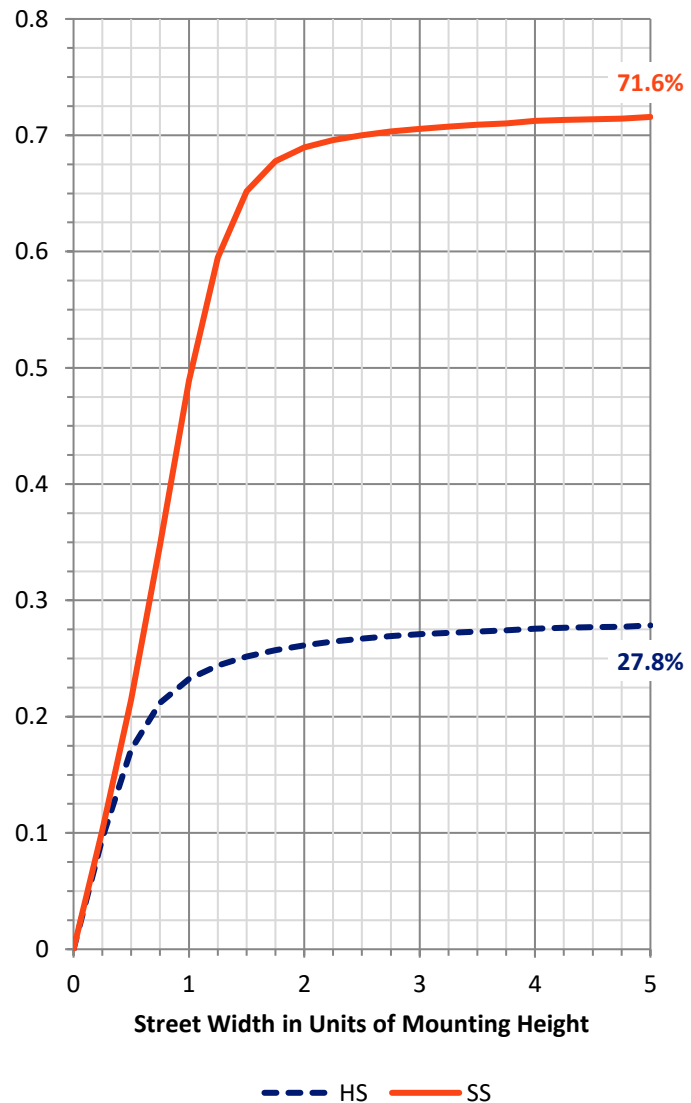
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1807.3	0.0	1807.3
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	4609.6	0.0	4609.6
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	6417.0	0.0	6417.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	70.8	1.1
20°-30°	274.9	4.3
30°-40°	680.1	10.6
40°-50°	1279.2	19.9
50°-60°	1697.0	26.4
60°-70°	1527.8	23.8
70°-80°	780.2	12.2
80°-90°	102.3	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°	6417.0	100.0
0°-180°	6417.0	100.0



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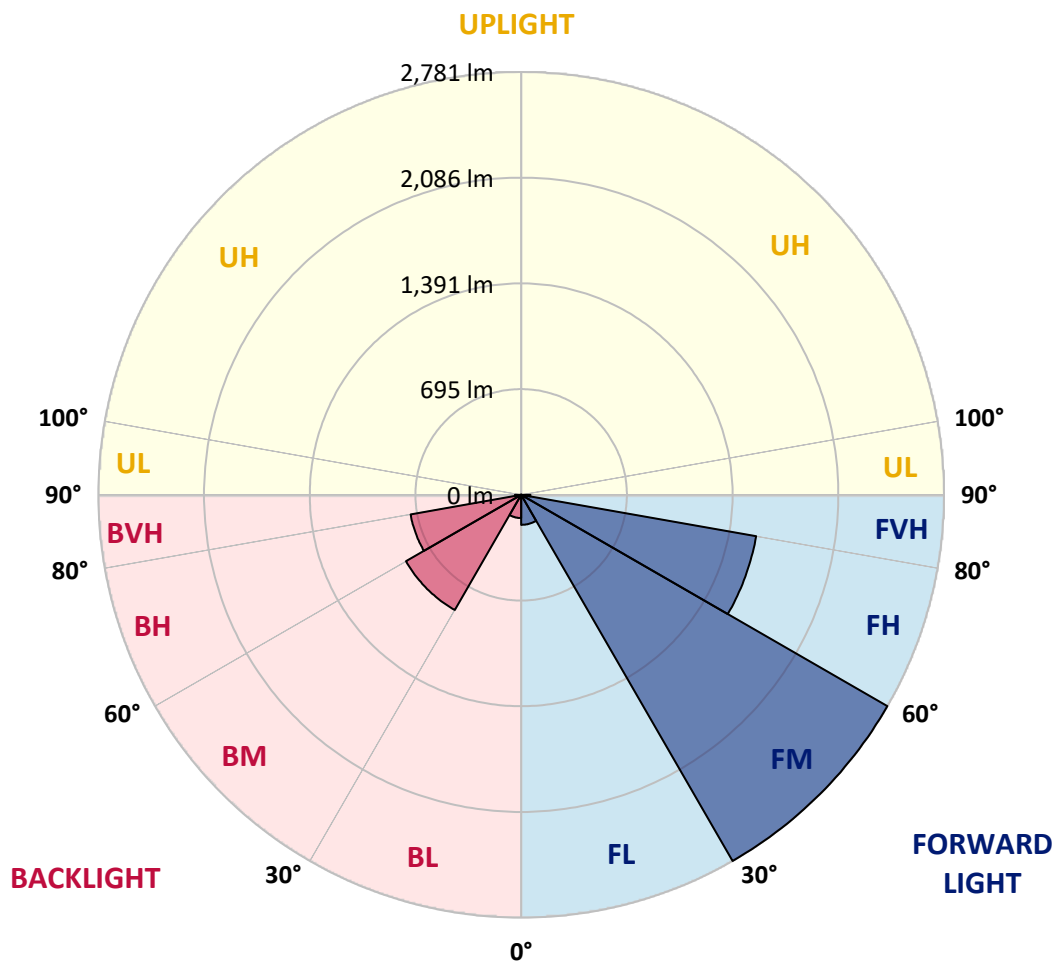
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.6	3.1			
FM	(30°-60°)	2781.4	43.3			
FH	(60°-80°)	1569.5	24.5			G1/1800
FVH	(80°-90°)	61.1	1.0			G1/100
BL	(0°-30°)	153.0	2.4	B1/500		
BM	(30°-60°)	874.7	13.6	B1/1000		
BH	(60°-80°)	738.5	11.5	B2/1000		G2/1000
BVH	(80°-90°)	41.1	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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	3.0	2.2	3.0	3.7	3.7	3.0	2.2	0.7	0.7	0.0	0.0
5°	136.9	133.9	93.2	36.4	19.0	10.2	5.1	2.2	1.4	0.7	0.7
7.5°	142.7	142.7	142.7	144.2	141.3	136.9	23.3	5.1	4.4	1.4	0.7
10°	145.6	144.8	143.4	144.8	143.4	143.4	140.6	18.1	16.8	5.7	4.4
12.5°	273.8	272.2	263.6	170.4	149.3	149.3	149.9	122.3	123.1	39.3	101.1
15°	286.1	285.4	281.8	283.2	274.5	163.9	230.1	294.9	297.8	206.8	233.6
17.5°	318.2	313.1	301.4	297.8	294.1	335.6	321.9	321.1	321.1	240.9	254.1
20°	492.2	485.7	479.1	387.3	323.3	427.4	395.3	347.3	350.2	410.6	435.4
22.5°	565.8	560.6	550.4	529.3	551.9	460.9	483.5	505.9	508.9	536.6	495.1
25°	770.2	774.7	720.8	617.3	665.5	573.7	619.7	558.4	573.7	583.2	612.3
27.5°	996.7	981.4	964.7	878.1	757.2	806.7	682.9	730.2	787.0	795.0	745.6
30°	1268.9	1247.8	1114.6	1105.2	969.0	907.8	883.2	896.1	881.0	835.1	835.9
32.5°	1601.0	1588.7	1530.4	1351.3	1226.0	1041.1	1075.4	982.1	990.9	1085.5	1101.5
35°	2062.6	2041.5	1763.4	1667.3	1419.1	1336.0	1202.7	1241.4	1251.5	1233.4	1212.3
37.5°	2591.9	2572.9	2354.5	1963.5	1715.4	1524.6	1484.4	1416.1	1389.0	1392.8	1400.1
40°	2904.2	2891.1	2698.1	2372.1	2015.3	1814.2	1684.1	1590.1	1547.9	1601.0	1585.7
42.5°	3127.7	3108.9	2998.2	2680.0	2424.4	2224.3	1925.0	1801.2	1732.8	1847.0	1795.4
45°	3261.7	3233.3	3178.7	2889.7	2759.4	2688.6	2248.9	2047.2	1996.4	2082.2	2044.5
47.5°	3221.0	3174.3	3208.6	3037.4	3031.6	3099.3	2627.5	2331.2	2329.8	2360.3	2332.0
50°	2968.3	2934.9	3036.7	3055.7	3200.5	3424.8	3089.1	2650.9	2668.3	2656.6	2623.9
52.5°	2500.9	2508.2	2669.9	2825.6	3186.0	3618.5	3546.4	3027.3	3075.3	2947.2	2893.4
55°	2016.8	2041.5	2215.5	2409.9	2955.2	3665.1	3943.9	3442.9	3523.1	3229.6	3146.7
57.5°	1530.4	1563.9	1771.4	1917.0	2495.0	3504.2	4179.8	3834.0	3951.1	3499.1	3382.6
60°	974.1	994.6	1250.1	1494.7	1860.8	2959.6	4235.1	4232.2	4362.4	3772.8	3592.2
62.5°	630.5	642.2	750.7	1077.5	1293.7	2066.2	4054.5	4552.5	4685.7	4039.3	3772.1
64°	482.7	492.9	562.1	831.4	1026.6	1502.0	3726.2	4662.5	4788.4	4140.5	3839.0
65°	419.4	425.8	476.9	677.9	873.7	1177.9	3402.9	4665.3	4786.2	4169.6	3850.7
67.5°	348.7	350.9	369.8	428.9	617.3	656.8	2147.8	4318.8	4432.3	4107.1	3758.1
70°	315.9	320.3	345.0	349.5	476.9	454.4	800.1	3553.7	3645.4	3938.8	3552.9
72.5°	272.2	277.3	309.5	335.6	369.2	360.4	404.7	2495.9	2593.3	3410.2	3319.1
75°	222.1	227.1	257.8	296.4	309.5	283.2	318.2	1282.2	1445.9	2520.6	2970.4
77.5°	176.2	181.3	205.4	233.0	278.8	217.0	254.1	491.5	587.5	1566.0	2209.7
80°	125.3	128.2	153.6	176.2	210.5	187.8	185.0	268.7	282.4	778.3	1112.6
82.5°	77.2	79.4	102.6	117.9	140.6	187.8	132.5	185.0	189.4	327.0	340.7
85°	42.9	44.3	62.0	67.0	78.0	95.4	88.8	101.1	104.2	145.6	85.9
87.5°	5.1	6.6	14.6	16.0	14.6	16.0	16.0	14.6	15.4	13.1	7.2
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	0.7	0.7	0.7	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.7	1.4	1.4	2.2	2.2	3.0	4.4	4.4	4.4	5.1
7.5°	0.7	0.7	1.4	2.2	3.0	7.2	36.4	125.9	141.9	147.1	147.1
10°	4.4	4.4	4.4	5.1	14.6	141.9	159.4	164.5	166.7	166.7	168.3
12.5°	111.4	111.4	59.6	23.3	133.2	165.9	169.6	173.3	175.4	177.7	180.6
15°	235.1	235.9	229.3	224.9	237.3	179.1	181.3	291.9	304.3	309.5	310.2
17.5°	255.6	254.1	255.6	325.5	343.0	268.0	299.2	319.5	321.9	322.5	322.5
20°	458.7	456.5	362.6	344.4	351.6	444.8	322.5	323.3	362.6	420.9	439.0
22.5°	492.2	487.8	461.5	503.1	461.5	454.4	409.8	423.7	436.8	435.4	434.7
25°	620.3	608.0	508.9	519.8	584.6	460.1	492.2	409.2	416.5	418.6	419.4
27.5°	763.0	748.5	715.7	611.6	596.3	575.2	460.9	427.4	474.7	476.1	473.2
30°	815.4	795.8	748.5	765.1	637.7	542.3	442.0	452.1	428.1	427.4	428.1
32.5°	1108.1	1072.4	980.7	829.2	673.5	490.7	435.4	403.3	430.3	437.6	437.6
35°	1212.3	1165.6	1086.3	1040.3	645.8	476.1	381.5	389.5	390.9	389.5	390.3
37.5°	1349.1	1287.9	1215.9	1060.1	665.5	414.3	364.1	361.1	389.5	394.6	396.8
40°	1508.6	1450.4	1383.3	1076.1	597.1	380.8	348.7	361.1	369.2	370.6	372.1
42.5°	1710.9	1630.2	1540.6	1073.1	508.3	365.5	345.8	345.8	355.3	352.3	352.3
45°	1941.7	1838.3	1688.4	1045.4	420.9	351.6	338.5	333.5	337.9	332.1	332.1
47.5°	2200.8	2087.3	1799.0	1002.5	370.6	339.3	332.1	315.9	326.2	324.6	324.6
50°	2475.4	2356.8	1902.4	905.8	339.3	328.3	315.2	311.6	324.6	321.9	321.1
52.5°	2738.9	2636.3	1981.0	773.9	312.3	318.2	309.5	307.9	319.5	316.7	315.9
55°	2991.5	2931.9	2079.3	662.5	288.4	299.9	307.2	307.2	314.5	311.6	311.6
57.5°	3237.8	3249.3	2195.7	586.1	270.1	285.4	304.3	303.5	307.9	305.9	306.5
60°	3488.1	3563.8	2312.2	514.0	255.6	268.7	298.4	297.1	299.2	298.4	299.2
62.5°	3725.5	3850.0	2453.5	421.6	239.5	255.6	289.1	290.5	289.8	291.9	291.9
64°	3847.0	3974.5	2523.5	367.6	230.1	247.6	281.8	284.0	283.2	287.5	286.9
65°	3894.4	4020.4	2548.2	335.6	224.2	242.5	276.7	279.6	278.8	284.0	281.8
67.5°	3881.2	3966.5	2518.4	276.7	208.9	228.6	262.8	268.0	265.8	273.1	268.0
70°	3743.6	3673.0	2281.8	240.9	196.5	213.3	245.3	252.0	248.3	255.6	246.9
72.5°	3486.0	3169.9	1775.7	208.9	182.7	198.0	225.7	232.2	229.3	232.2	222.8
75°	2915.1	2444.7	1038.9	181.3	164.5	177.0	202.4	208.9	206.0	199.6	195.8
77.5°	2026.9	1545.7	410.6	158.7	147.9	155.0	172.6	178.4	174.0	161.7	159.4
80°	966.8	689.4	197.3	137.6	128.2	132.5	141.3	143.4	142.7	130.3	124.4
82.5°	296.4	225.7	136.2	110.8	104.2	102.6	111.4	108.4	107.0	98.3	77.2
85°	67.0	66.3	76.4	68.5	65.5	59.0	67.0	64.8	63.3	47.3	40.8
87.5°	2.2	4.4	3.7	9.4	10.2	8.1	13.1	13.8	10.2	4.4	0.7
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)