

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: P266237

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266237  
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-AF24-100-D-U-T2U-7027  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA 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: 7657.5 lumens  
Efficiency: N/A  
Efficacy: 79.8 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): 96  
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

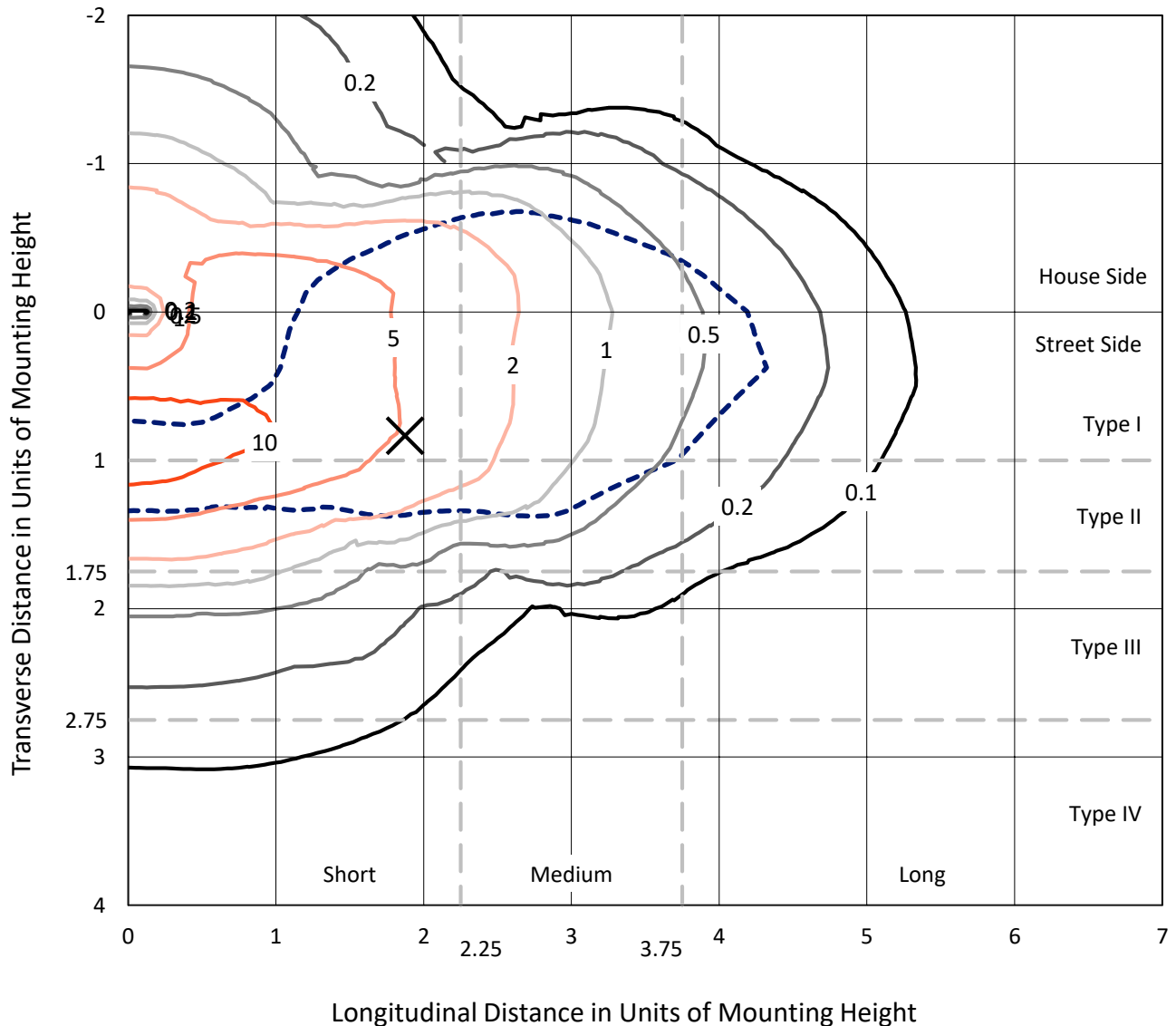


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

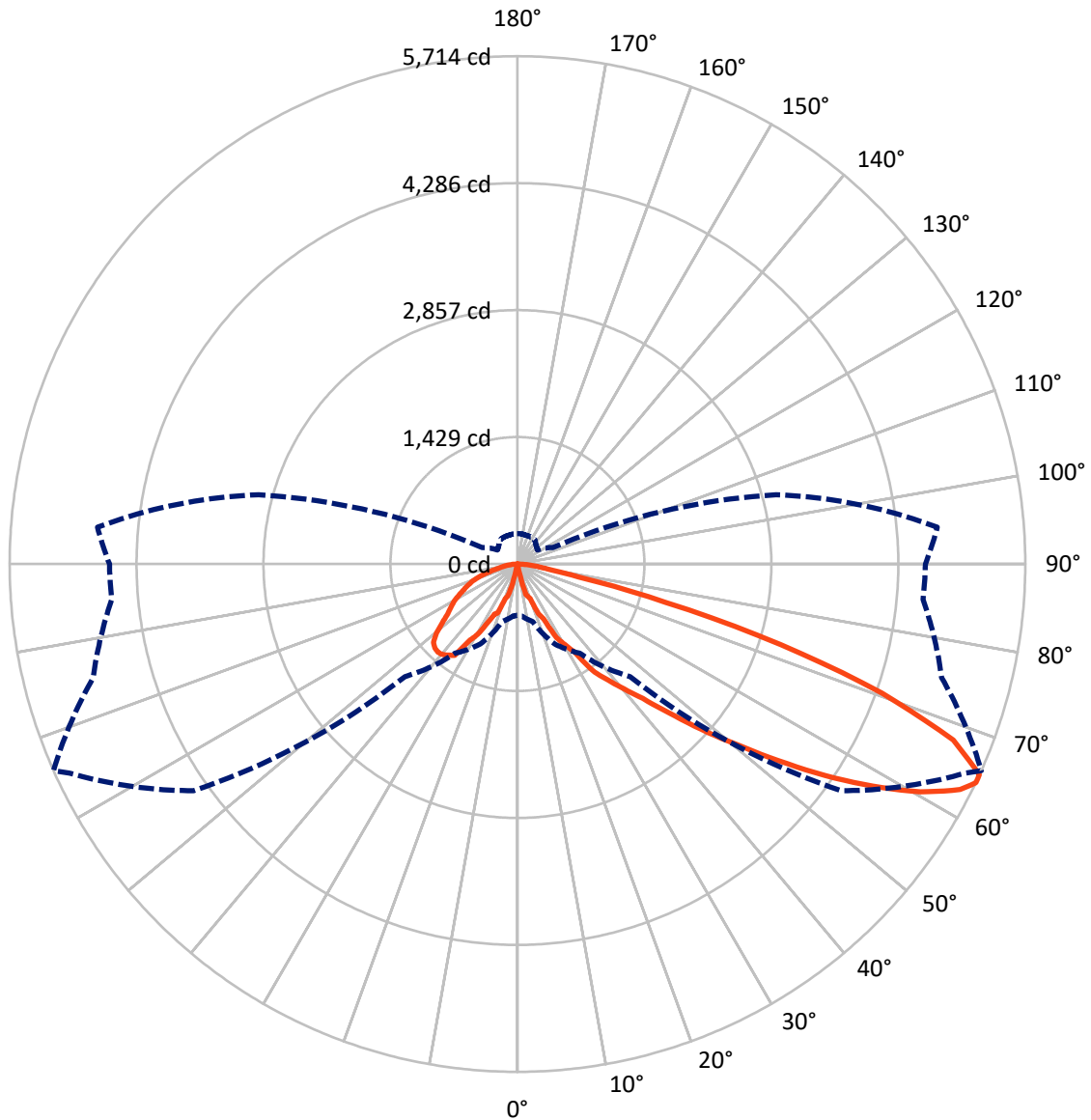


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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



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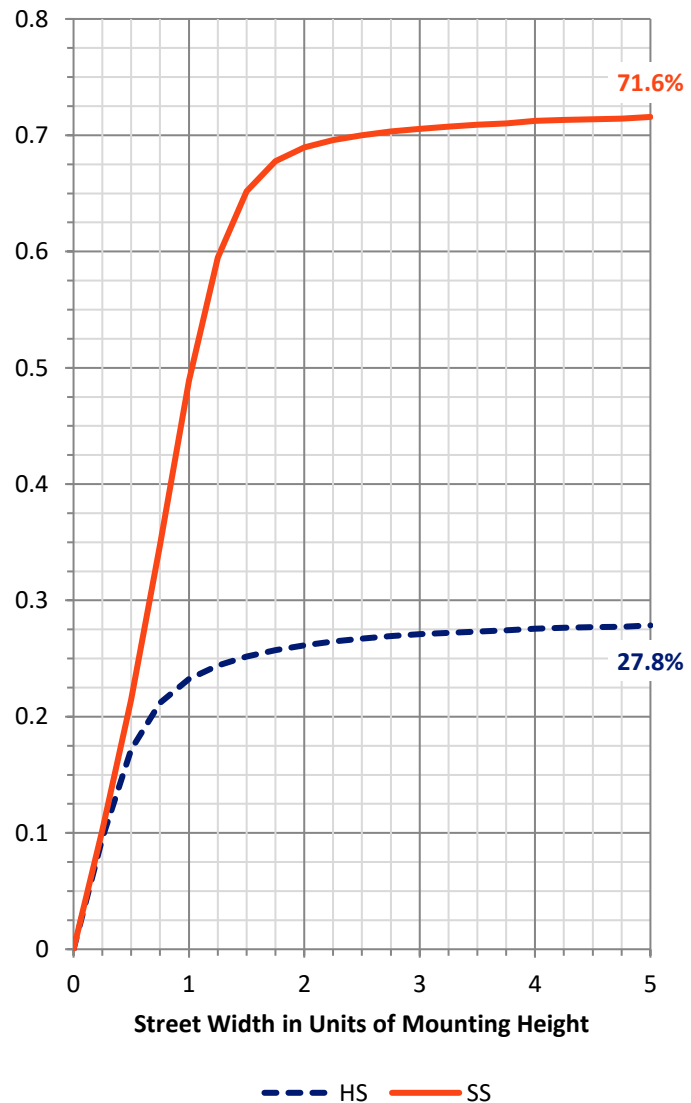
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2156.7	0.0	2156.7
	% Fixture	28.2	0.0	28.2
<b>Street Side</b>	Lumens	5500.8	0.0	5500.8
	% Fixture	71.8	0.0	71.8
<b>Total</b>	Lumens	7657.5	0.0	7657.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	84.5	1.1
20°-30°	328.1	4.3
30°-40°	811.5	10.6
40°-50°	1526.5	19.9
50°-60°	2025.0	26.4
60°-70°	1823.2	23.8
70°-80°	931.0	12.2
80°-90°	122.0	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°	7657.5	100.0
0°-180°	7657.5	100.0



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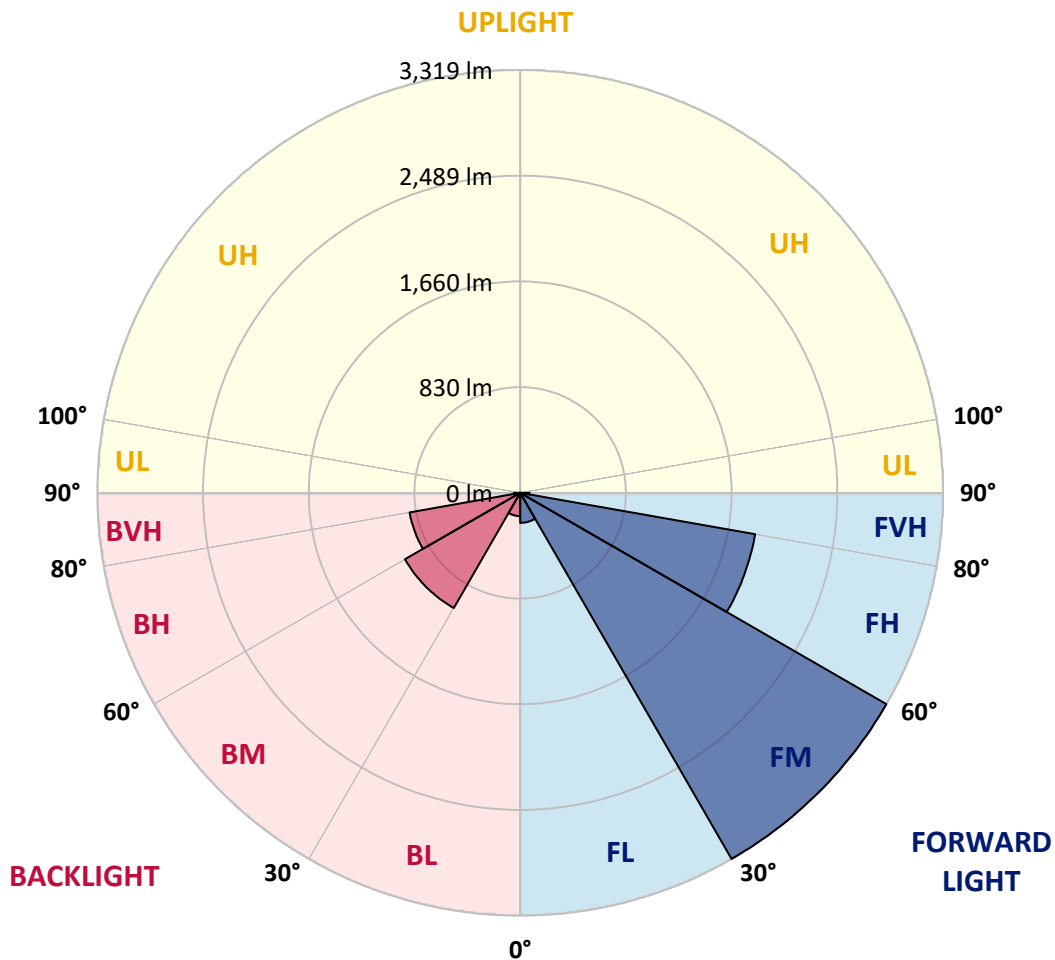
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.7	3.1			
FM (30°-60°)	3319.2	43.3			
FH (60°-80°)	1872.9	24.5			G2/5000
FVH (80°-90°)	72.9	1.0			G1/100
BL (0°-30°)	182.6	2.4	B1/500		
BM (30°-60°)	1043.9	13.6	B2/2500		
BH (60°-80°)	881.2	11.5	B2/1000		G2/1000
BVH (80°-90°)	49.1	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	4.3	4.3	3.5	2.6	0.9	0.9	0.0	0.0
5°	163.3	159.9	111.2	43.5	22.5	12.1	6.1	2.6	1.7	0.9	0.9
7.5°	170.3	170.3	170.3	172.0	168.5	163.3	27.8	6.1	5.2	1.7	0.9
10°	173.7	173.0	171.1	173.0	171.1	171.1	167.7	21.6	20.0	6.9	5.2
12.5°	326.7	324.9	314.4	203.2	178.1	178.1	179.0	146.0	146.9	46.9	120.7
15°	341.4	340.5	336.2	337.9	327.5	195.6	274.5	351.9	355.3	246.8	279.0
17.5°	379.7	373.5	359.7	355.3	351.0	400.6	384.0	383.1	383.1	287.5	303.2
20°	587.3	579.4	571.7	462.2	385.7	510.0	471.8	414.4	417.9	490.0	519.6
22.5°	675.0	669.0	656.8	631.6	658.5	549.9	576.9	603.8	607.3	640.3	590.7
25°	919.1	924.4	860.1	736.8	794.1	684.6	739.3	666.5	684.6	695.8	730.7
27.5°	1189.4	1171.2	1151.2	1047.9	903.5	962.7	814.9	871.4	939.2	948.7	889.6
30°	1514.4	1489.1	1330.1	1318.8	1156.4	1083.4	1053.9	1069.5	1051.2	996.5	997.4
32.5°	1910.5	1895.8	1826.3	1612.5	1463.1	1242.4	1283.1	1172.0	1182.4	1295.4	1314.5
35°	2461.4	2436.2	2104.3	1989.6	1693.3	1594.3	1435.3	1481.3	1493.5	1471.8	1446.6
37.5°	3093.0	3070.3	2809.8	2343.1	2046.9	1819.2	1771.5	1689.8	1657.7	1662.0	1670.7
40°	3465.8	3450.0	3219.9	2830.6	2404.9	2165.1	2009.6	1897.5	1847.0	1910.5	1892.3
42.5°	3732.4	3709.8	3577.8	3198.1	2893.1	2654.2	2297.1	2149.5	2067.8	2204.3	2142.5
45°	3892.3	3858.4	3793.3	3448.4	3292.7	3208.6	2683.7	2443.1	2382.2	2484.8	2439.6
47.5°	3843.6	3788.1	3828.8	3624.8	3617.7	3698.5	3135.5	2782.0	2780.3	2816.6	2782.8
50°	3542.1	3502.2	3623.9	3646.4	3819.4	4086.8	3686.4	3163.3	3184.2	3170.3	3131.2
52.5°	2984.3	2993.1	3185.8	3371.9	3801.9	4318.1	4231.9	3612.5	3669.8	3517.0	3452.6
55°	2406.6	2436.2	2643.8	2875.7	3526.4	4373.6	4706.4	4108.6	4204.2	3854.1	3755.1
57.5°	1826.3	1866.1	2113.8	2287.5	2977.4	4181.6	4987.8	4575.2	4715.1	4175.5	4036.5
60°	1162.4	1186.8	1491.7	1783.7	2220.7	3531.7	5053.9	5050.5	5205.9	4502.1	4286.7
62.5°	752.4	766.3	895.7	1285.8	1543.8	2465.7	4838.5	5432.7	5591.7	4820.1	4501.2
64°	576.1	588.2	670.8	992.2	1225.0	1792.4	4446.6	5563.9	5714.2	4940.9	4581.3
65°	500.4	508.3	569.0	808.8	1042.6	1405.8	4060.8	5567.3	5711.6	4975.7	4595.1
67.5°	416.2	418.8	441.3	511.8	736.8	783.7	2563.0	5153.8	5289.3	4901.0	4484.8
70°	377.1	382.3	411.9	417.1	569.0	542.1	954.8	4240.7	4350.1	4700.3	4239.8
72.5°	324.9	331.0	369.3	400.6	440.4	430.1	483.1	2978.3	3094.8	4069.5	3960.8
75°	265.0	271.1	307.6	353.7	369.3	337.9	379.7	1530.0	1725.5	3007.9	3544.7
77.5°	210.3	216.3	245.0	278.0	332.7	258.9	303.2	586.5	701.1	1868.8	2636.9
80°	149.5	152.9	183.3	210.3	251.0	224.1	220.7	320.5	337.1	928.8	1327.5
82.5°	92.0	94.7	122.4	140.8	167.7	224.1	158.1	220.7	226.0	390.1	406.7
85°	51.3	53.0	73.8	79.9	93.0	113.8	106.0	120.7	124.2	173.7	102.5
87.5°	6.1	7.8	17.3	19.1	17.3	19.1	19.1	17.3	18.2	15.6	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	5.2	5.2	5.2	6.1
7.5°	0.9	0.9	1.7	2.6	3.5	8.8	43.5	150.2	169.4	175.4	175.4
10°	5.2	5.2	5.2	6.1	17.3	169.4	190.4	196.4	199.0	199.0	200.7
12.5°	132.9	132.9	71.2	27.8	159.0	198.0	202.5	206.8	209.3	212.0	215.5
15°	280.6	281.4	273.7	268.5	283.2	213.7	216.3	348.5	363.2	369.3	370.1
17.5°	305.0	303.2	305.0	388.3	409.2	319.7	357.0	381.4	384.0	384.8	384.8
20°	547.3	544.7	432.7	411.0	419.7	530.9	384.8	385.7	432.7	502.2	523.9
22.5°	587.3	582.1	550.8	600.3	550.8	542.1	489.1	505.7	521.2	519.6	518.7
25°	740.3	725.4	607.3	620.3	697.7	549.0	587.3	488.3	496.9	499.5	500.4
27.5°	910.5	893.2	854.1	729.9	711.5	686.3	549.9	510.0	566.6	568.2	564.8
30°	973.0	949.6	893.2	913.1	761.0	647.3	527.3	539.5	510.9	510.0	510.9
32.5°	1322.3	1279.7	1170.3	989.6	803.7	585.5	519.6	481.3	513.6	522.2	522.2
35°	1446.6	1390.9	1296.3	1241.5	770.7	568.2	455.3	464.9	466.6	464.9	465.7
37.5°	1609.9	1536.9	1450.9	1265.1	794.1	494.3	434.4	430.9	464.9	470.9	473.4
40°	1800.2	1730.7	1650.7	1284.0	712.4	454.5	416.2	430.9	440.4	442.2	443.9
42.5°	2041.7	1945.3	1838.4	1280.7	606.4	436.1	412.7	412.7	424.0	420.4	420.4
45°	2317.1	2193.8	2014.8	1247.7	502.2	419.7	404.0	397.9	403.1	396.2	396.2
47.5°	2626.5	2490.9	2146.8	1196.4	442.2	404.9	396.2	377.1	389.2	387.4	387.4
50°	2953.9	2812.4	2270.1	1080.8	404.9	391.8	376.2	371.9	387.4	384.0	383.1
52.5°	3268.5	3146.0	2364.0	923.5	372.7	379.7	369.3	367.4	381.4	377.9	377.1
55°	3570.0	3498.7	2481.3	790.6	344.1	358.0	366.7	366.7	375.3	371.9	371.9
57.5°	3863.6	3877.5	2620.4	699.4	322.3	340.5	363.2	362.2	367.4	364.9	365.8
60°	4162.4	4252.8	2759.4	613.5	305.0	320.5	356.2	354.6	357.0	356.2	357.0
62.5°	4445.7	4594.3	2927.8	503.1	285.8	305.0	344.9	346.7	345.8	348.5	348.5
64°	4590.8	4742.8	3011.3	438.7	274.5	295.5	336.2	338.8	337.9	343.2	342.3
65°	4647.3	4797.6	3040.9	400.6	267.5	289.3	330.1	333.6	332.7	338.8	336.2
67.5°	4631.7	4733.3	3005.2	330.1	249.4	272.8	313.7	319.7	317.1	325.8	319.7
70°	4467.5	4383.2	2722.9	287.5	234.5	254.6	292.8	300.7	296.4	305.0	294.6
72.5°	4160.0	3782.9	2119.0	249.4	218.1	236.3	269.3	277.1	273.7	277.1	265.9
75°	3478.7	2917.4	1239.8	216.3	196.4	211.1	241.6	249.4	245.9	238.1	233.6
77.5°	2418.7	1844.5	490.0	189.5	176.3	185.1	205.9	212.9	207.7	192.9	190.4
80°	1153.9	822.8	235.4	164.2	152.9	158.1	168.5	171.1	170.3	155.5	148.6
82.5°	353.7	269.3	162.5	132.1	124.2	122.4	132.9	129.4	127.6	117.3	92.0
85°	79.9	79.1	91.2	81.7	78.2	70.3	79.9	77.3	75.5	56.5	48.7
87.5°	2.6	5.2	4.3	11.3	12.1	9.5	15.6	16.4	12.1	5.2	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)