

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: P415407

Luminaire Tested: **LXF.LXT-PA1-50-727-U-T2R**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P415407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-50-727-U-T2R  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5382 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

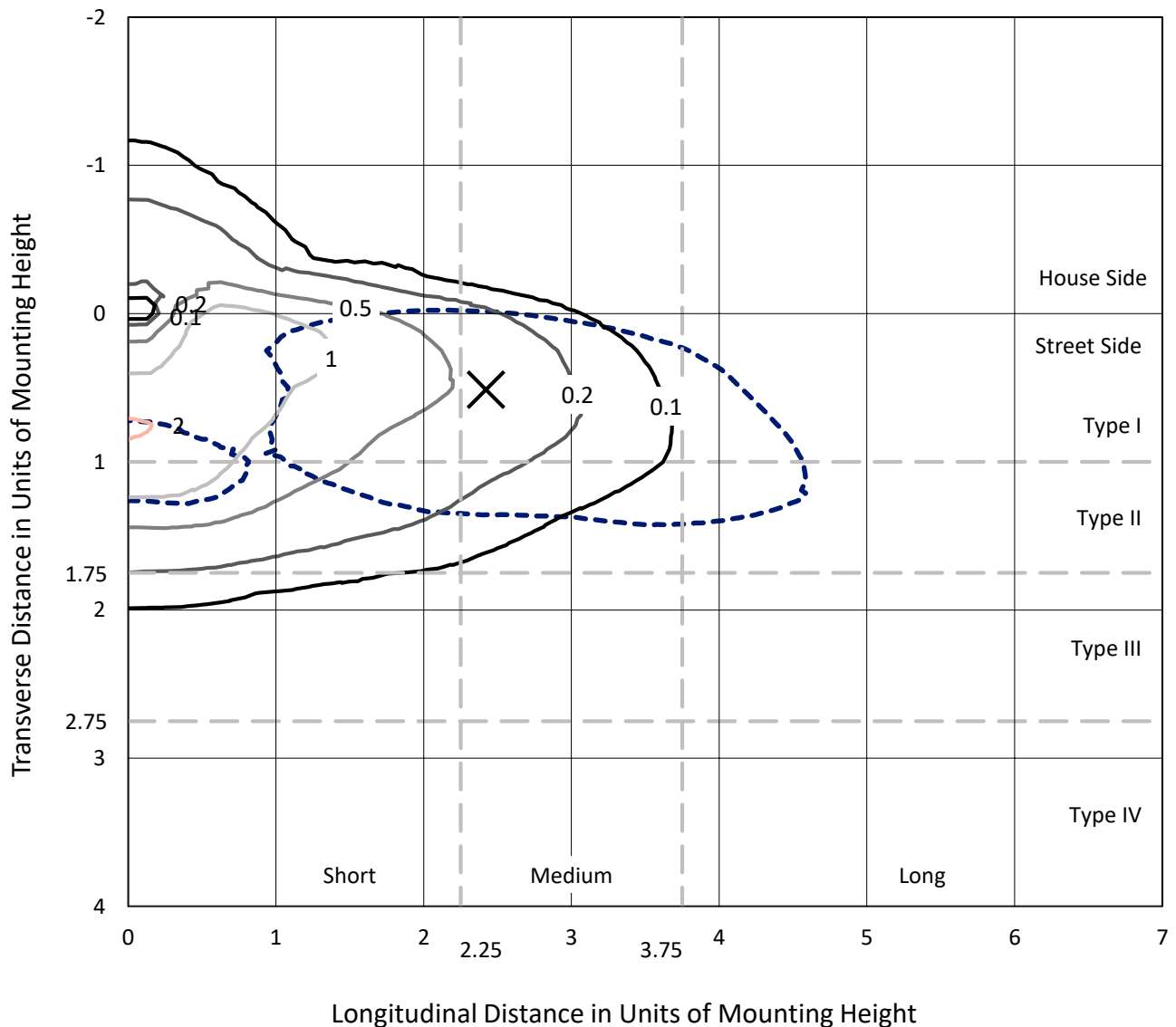


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### Iso-Footcandle Lines of Horizontal Illumination

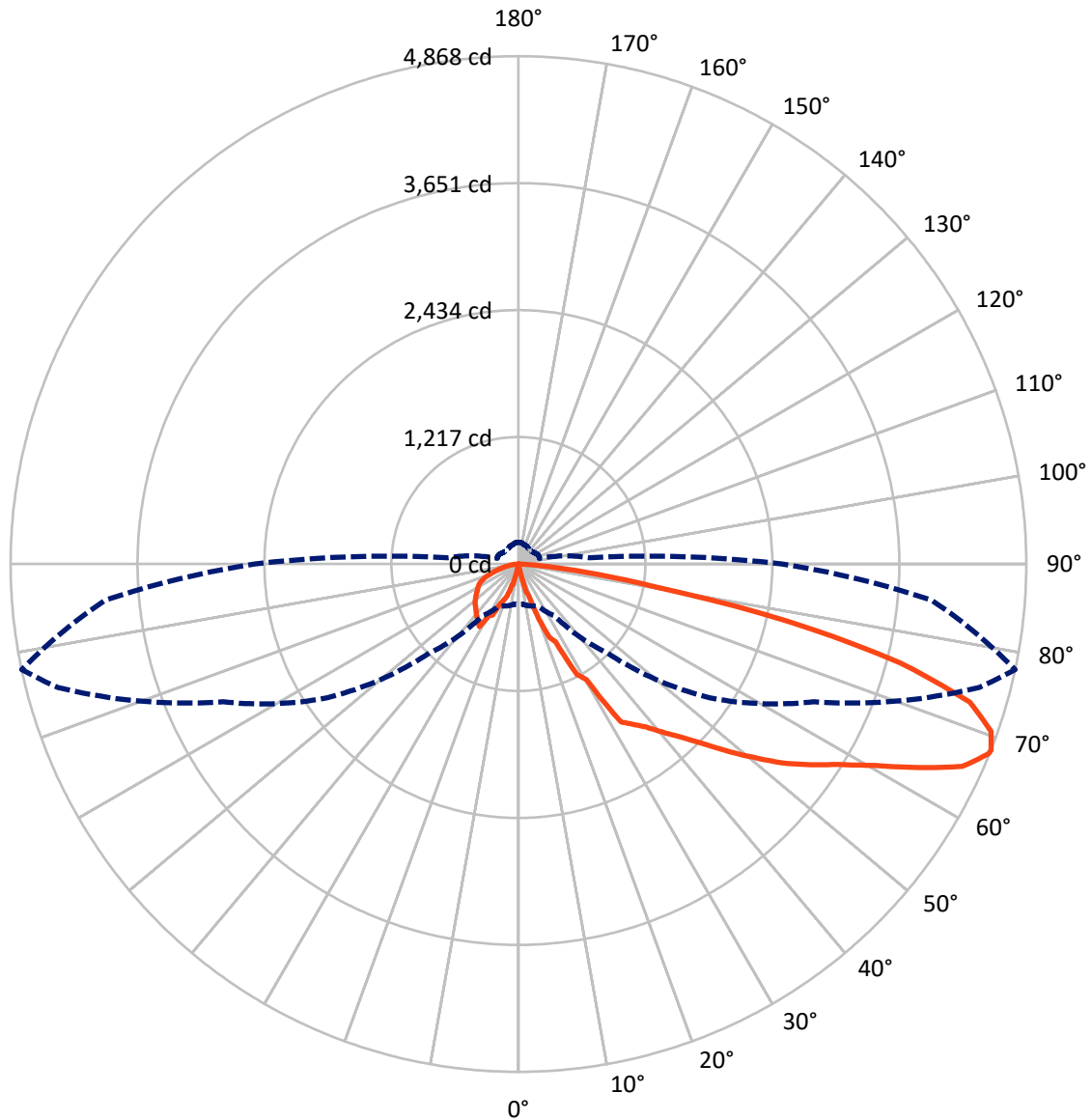
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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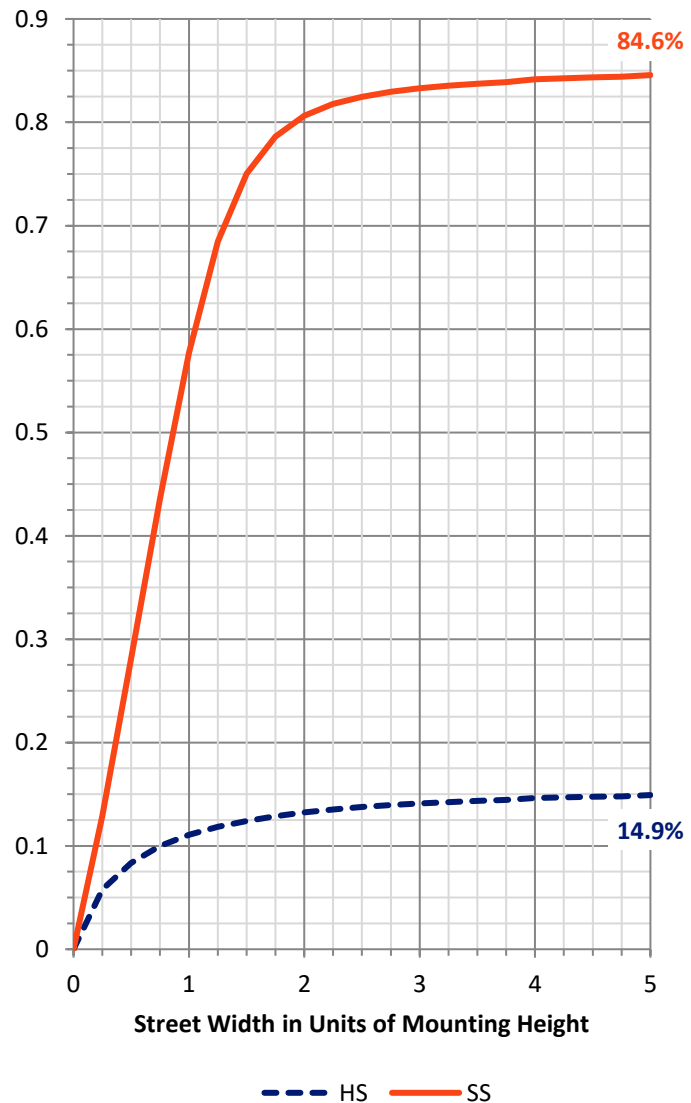
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	817.1	0.0	817.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	4564.9	0.0	4564.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	5382.0	0.0	5382.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	78.0	1.4
20°-30°	297.0	5.5
30°-40°	693.4	12.9
40°-50°	1082.5	20.1
50°-60°	1242.7	23.1
60°-70°	1154.7	21.5
70°-80°	713.5	13.3
80°-90°	114.9	2.1
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°	5382.0	100.0
0°-180°	5382.0	100.0



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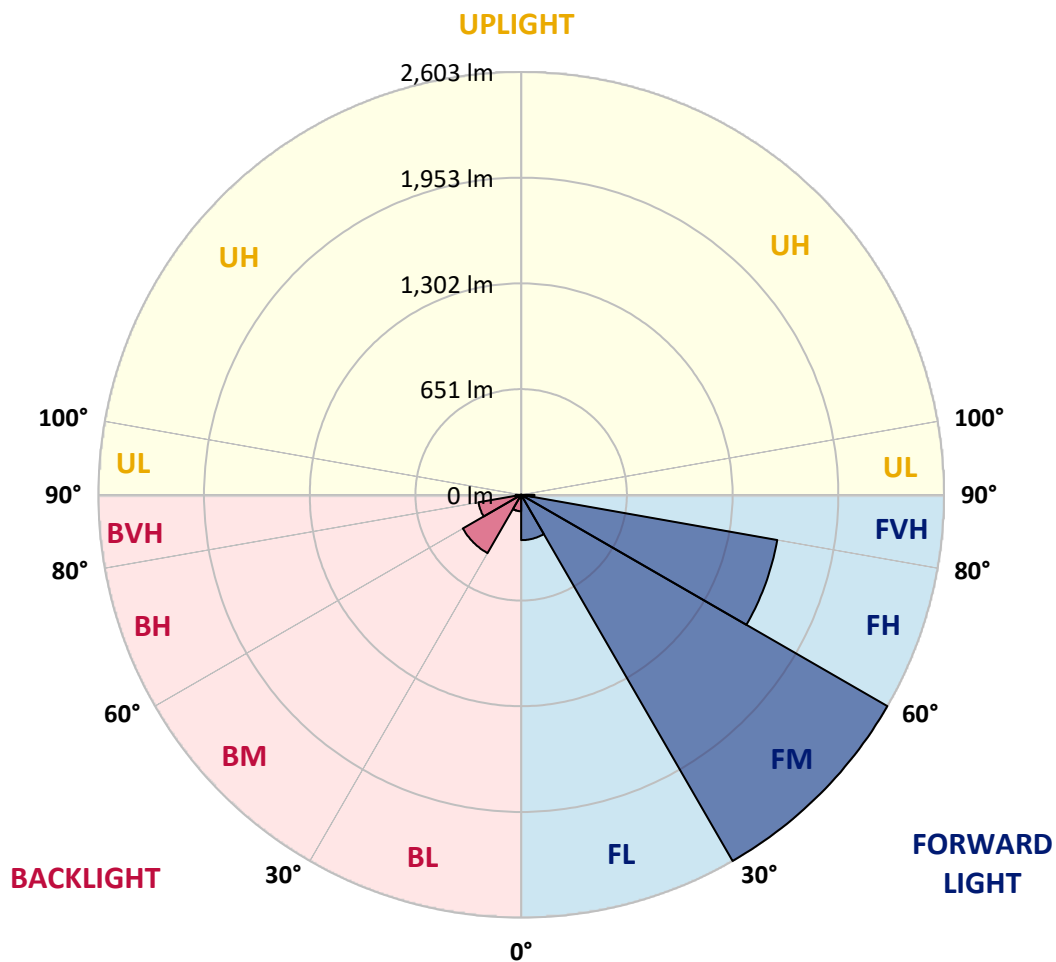
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.1	5.2			
FM (30°-60°)	2603.5	48.4			
FH (60°-80°)	1601.1	29.7			G1/1800
FVH (80°-90°)	81.3	1.5			G1/100
BL (0°-30°)	101.3	1.9	B0/110		
BM (30°-60°)	415.2	7.7	B1/1000		
BH (60°-80°)	267.1	5.0	B1/500		G1/500
BVH (80°-90°)	33.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.1	4.1	4.7	5.3	6.5	5.9	4.1	3.0	2.4	2.4	2.4
5°	190.7	175.4	98.0	50.8	17.7	10.6	5.3	4.1	3.0	3.0	2.4
7.5°	215.5	214.3	212.6	210.8	207.8	196.6	20.7	5.9	3.5	3.5	2.4
10°	232.6	230.9	229.7	228.5	224.4	218.5	208.4	18.3	6.5	5.9	5.3
12.5°	451.7	450.5	448.8	287.0	243.3	236.8	227.9	163.0	18.9	28.3	85.6
15°	450.5	448.8	454.1	463.5	471.2	259.2	261.6	457.6	283.4	272.2	289.9
17.5°	470.0	467.7	461.7	468.2	482.4	542.0	512.5	495.4	333.6	318.3	309.4
20°	689.1	689.1	696.2	690.3	500.7	692.6	656.0	532.0	602.9	566.8	527.3
22.5°	729.2	726.3	727.5	739.3	869.2	718.0	723.9	820.8	837.9	765.2	656.0
25°	1036.9	1036.3	995.5	781.2	916.4	865.6	1000.3	878.0	908.7	823.1	804.8
27.5°	1166.8	1167.9	1134.9	1105.4	968.4	1122.5	1061.7	1156.1	1290.8	1199.2	1031.0
30°	1570.1	1554.7	1294.9	1266.0	1185.1	1183.3	1285.4	1365.2	1327.4	1284.3	1151.4
32.5°	1865.9	1850.5	1793.3	1593.1	1408.9	1317.9	1476.8	1428.3	1731.8	1802.7	1561.2
35°	2323.5	2318.2	2014.1	1807.4	1654.5	1593.7	1551.7	1740.1	1874.7	1885.4	1662.8
37.5°	2674.8	2657.7	2479.4	2115.1	1862.3	1721.8	1821.6	1824.5	2031.2	1981.0	1821.6
40°	2835.4	2824.8	2687.8	2345.9	2053.6	1894.8	1935.0	1952.1	2202.4	2115.6	1937.3
42.5°	2957.7	2944.7	2857.9	2484.7	2221.9	2070.2	2051.9	2067.2	2368.4	2262.7	2061.3
45°	3020.8	3013.2	2972.4	2583.3	2339.4	2181.8	2177.1	2168.8	2481.1	2443.9	2195.9
47.5°	2985.4	2977.1	2995.4	2717.3	2412.7	2273.3	2293.4	2278.6	2610.5	2671.3	2342.4
50°	2788.8	2796.5	2869.7	2722.6	2459.3	2347.7	2416.2	2379.6	2786.4	2911.0	2520.1
52.5°	2219.6	2250.9	2560.9	2604.6	2464.0	2382.5	2526.6	2533.7	3004.9	3167.3	2753.9
55°	1656.3	1700.5	1975.1	2316.4	2369.5	2383.7	2597.5	2674.8	3222.8	3395.2	2950.6
57.5°	1303.8	1330.9	1505.7	1848.2	2141.6	2341.8	2670.1	2789.4	3425.3	3623.1	3143.7
60°	1042.2	1025.6	1139.6	1399.4	1785.0	2224.3	2702.0	2938.8	3677.4	3917.2	3371.0
62.5°	753.4	754.6	841.4	989.6	1413.0	1992.2	2677.2	3083.4	3998.6	4297.4	3673.9
65°	534.4	539.7	598.7	678.4	1021.5	1673.4	2554.4	3182.0	4361.2	4677.7	3920.1
67.5°	406.8	410.4	438.1	475.3	660.1	1273.0	2302.2	3162.0	4560.2	4857.8	3991.6
68°	390.3	384.4	415.7	442.9	607.6	1206.9	2233.1	3121.8	4569.6	4867.8	3974.4
70°	328.9	328.9	343.1	349.6	430.5	892.2	1894.8	2879.1	4536.0	4805.8	3844.5
72.5°	274.6	272.8	281.1	275.7	304.1	584.0	1376.4	2482.9	4295.7	4523.0	3457.8
75°	228.5	228.5	229.7	225.6	233.2	391.5	894.6	1945.0	3794.9	3776.6	2814.2
77.5°	194.9	190.1	188.9	183.0	189.5	284.6	548.5	1384.1	2739.8	2641.2	1786.8
80°	154.7	154.1	155.3	151.8	157.1	207.3	334.2	808.9	1492.1	1313.2	833.1
82.5°	95.7	105.1	115.7	115.7	132.3	146.4	202.5	432.8	723.3	635.9	353.7
85°	31.3	38.4	67.9	70.3	85.0	68.5	116.3	139.4	241.5	215.5	67.9
87.5°	1.2	1.8	5.3	8.3	7.7	4.7	8.3	6.5	13.6	10.0	10.6
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°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	2.4	2.4	2.4	3.0	3.0	1.8	1.2	2.4	2.4	2.4	2.4
5°	2.4	2.4	3.0	3.0	3.0	2.4	3.0	4.1	4.7	4.7	4.7
7.5°	2.4	2.4	2.4	3.5	3.5	4.1	5.9	35.4	81.5	89.2	88.0
10°	4.7	4.1	4.7	5.3	6.5	75.6	99.2	104.5	106.9	108.6	108.1
12.5°	113.4	101.6	18.9	10.6	71.4	106.3	108.1	112.2	116.3	118.1	118.1
15°	265.7	238.0	181.9	137.0	122.2	113.4	115.1	151.2	205.5	210.8	211.4
17.5°	282.2	247.4	190.1	209.6	216.1	168.3	184.8	207.8	210.2	210.8	210.8
20°	532.0	445.8	270.4	220.8	220.2	281.7	197.2	203.1	206.7	235.0	238.5
22.5°	575.7	477.7	324.8	313.5	237.4	281.7	258.0	250.9	274.6	272.2	274.0
25°	723.9	573.3	341.9	314.7	332.4	272.8	302.9	249.8	253.9	252.7	252.7
27.5°	920.5	723.3	477.7	352.5	323.0	315.3	280.5	240.3	288.1	289.3	289.3
30°	974.9	744.0	477.7	380.9	336.0	310.0	259.2	284.0	268.1	263.3	261.0
32.5°	1351.0	1009.1	578.1	366.7	331.3	284.6	284.0	263.9	263.3	274.0	274.0
35°	1419.5	1024.5	527.9	419.2	312.4	293.5	269.8	266.9	255.1	250.9	250.4
37.5°	1487.4	1033.9	489.5	385.0	320.6	279.9	265.7	245.0	258.0	258.0	256.9
40°	1560.0	1043.9	454.7	353.7	294.6	279.9	246.2	244.5	226.7	227.9	226.7
42.5°	1638.0	1048.1	417.5	327.7	270.4	262.8	238.0	219.7	219.1	223.2	222.0
45°	1727.1	1053.4	383.2	294.6	246.2	231.5	212.6	213.7	225.0	234.4	234.4
47.5°	1822.2	1058.1	354.9	265.1	229.1	210.2	196.0	200.8	220.8	230.3	233.2
50°	1950.9	1064.0	322.4	240.9	217.3	194.3	191.9	196.0	217.9	225.0	222.0
52.5°	2087.9	1053.4	290.5	225.6	204.9	176.5	180.7	191.3	214.9	218.5	216.1
55°	2200.1	1026.8	265.7	215.5	196.0	168.9	174.8	187.8	210.2	212.0	212.6
57.5°	2330.6	992.0	246.2	207.8	190.7	165.3	172.4	187.2	200.8	209.0	209.0
60°	2458.7	951.2	234.4	203.7	186.6	165.3	172.4	186.6	199.0	207.8	207.3
62.5°	2608.7	905.2	227.3	206.1	181.3	167.1	173.6	188.4	198.4	208.4	207.3
65°	2661.2	817.2	222.0	209.6	180.7	169.5	174.2	190.7	197.8	209.6	208.4
67.5°	2557.3	700.9	213.2	209.6	186.0	172.4	173.6	189.5	196.0	210.2	204.9
68°	2522.5	683.8	210.2	209.0	186.6	173.0	173.6	188.9	194.9	209.6	203.7
70°	2328.8	575.1	195.4	203.1	188.9	175.4	170.6	184.8	188.9	208.4	201.3
72.5°	2015.3	448.2	170.6	188.9	186.6	178.9	165.3	176.5	178.9	194.9	183.0
75°	1611.4	340.7	141.1	164.2	175.4	178.9	157.7	165.3	164.7	172.4	161.8
77.5°	1013.2	243.3	114.0	139.4	159.4	174.2	150.6	150.6	143.5	144.7	139.9
80°	491.3	166.5	92.1	115.1	133.4	164.7	138.2	127.0	118.1	115.7	109.8
82.5°	241.5	107.5	63.8	86.8	105.7	136.4	124.0	104.5	89.2	88.0	78.5
85°	56.1	44.3	34.8	46.1	66.7	89.2	89.2	65.5	55.5	72.0	53.1
87.5°	5.3	6.5	7.1	6.5	8.3	7.7	18.9	18.9	17.1	11.2	7.7
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)