

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: P414021

Luminaire Tested: **LXF.LXT-PA1-100-827-U-T3**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-100-827-U-T3
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7455 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G2

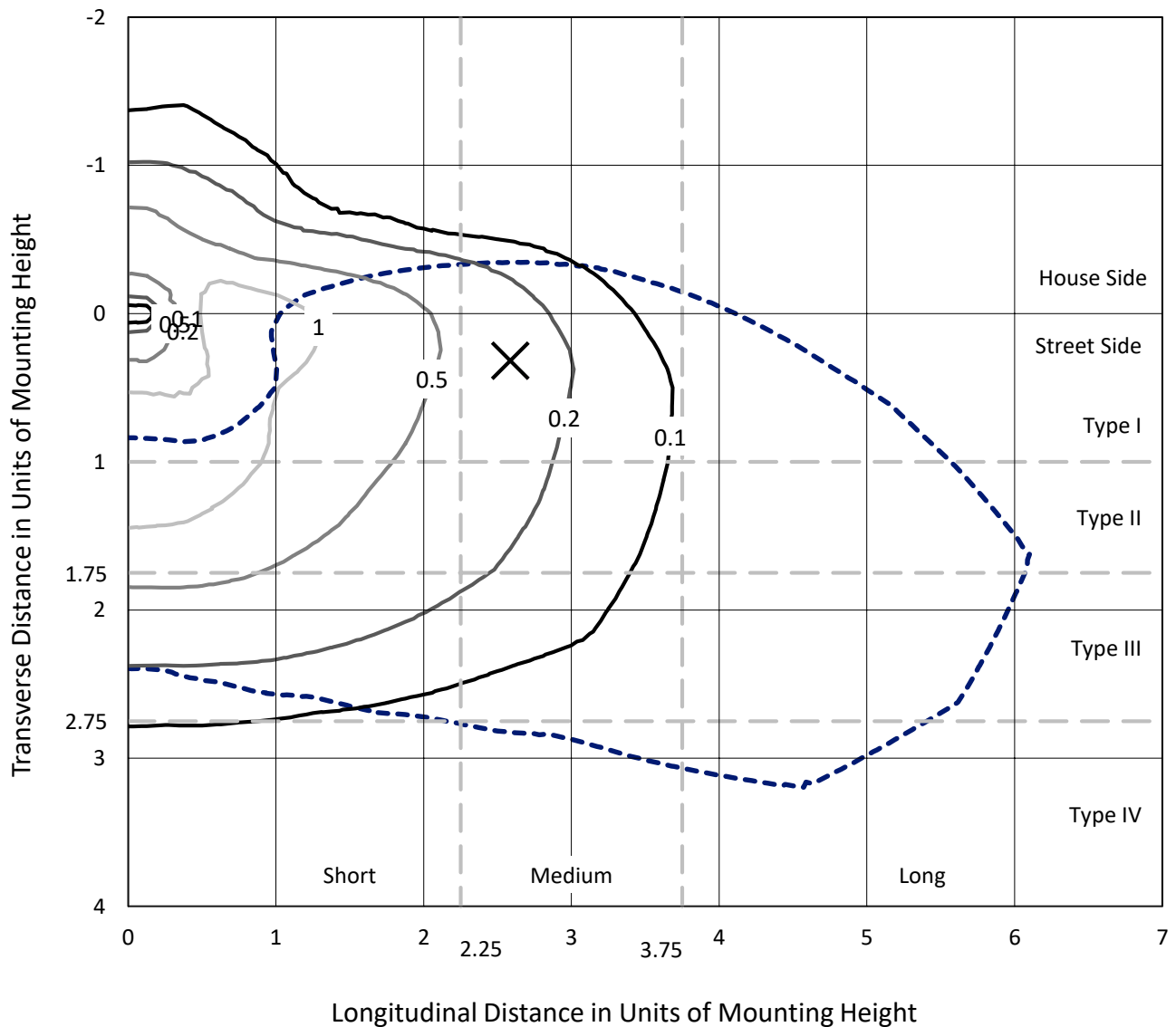
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

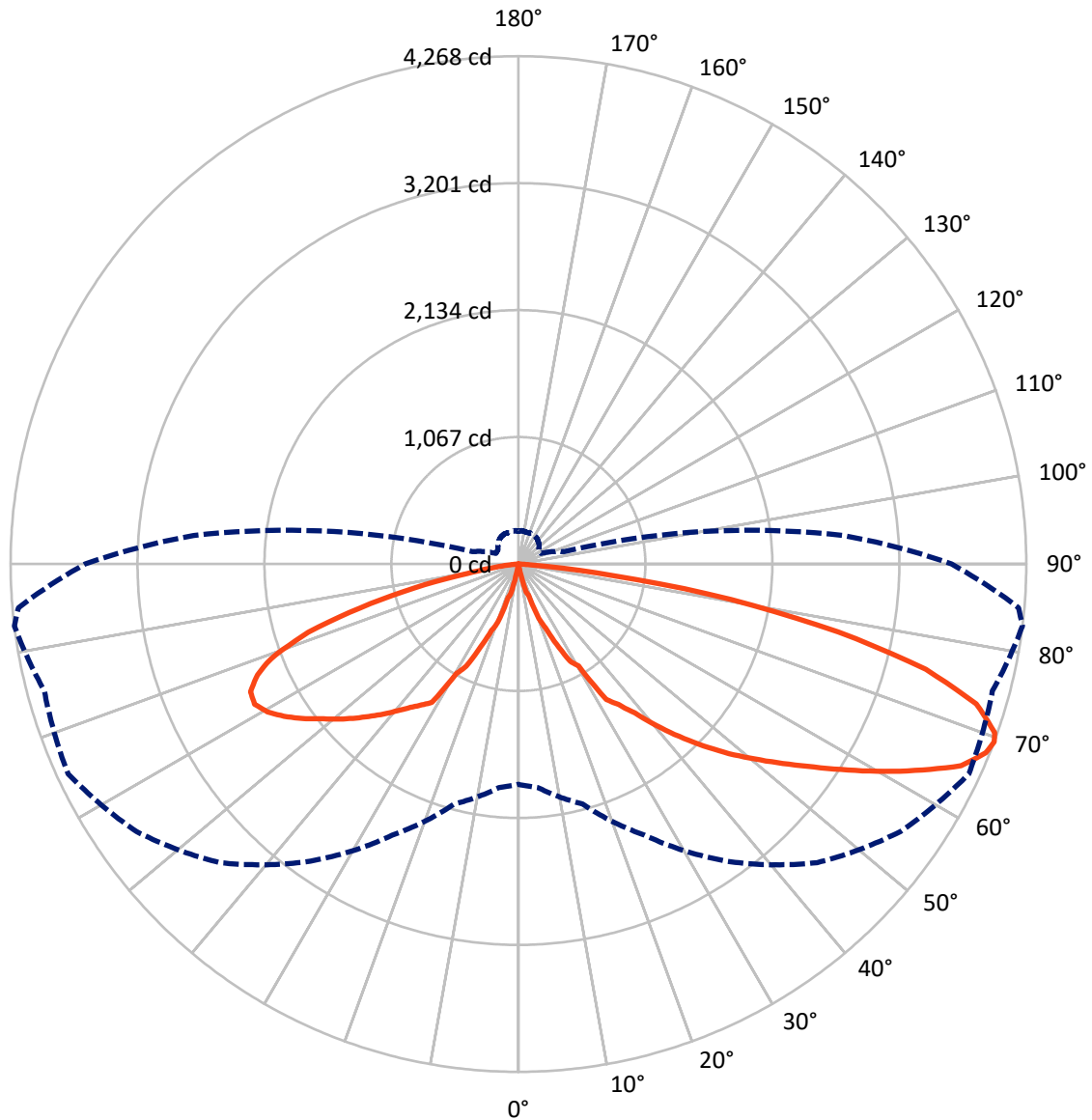


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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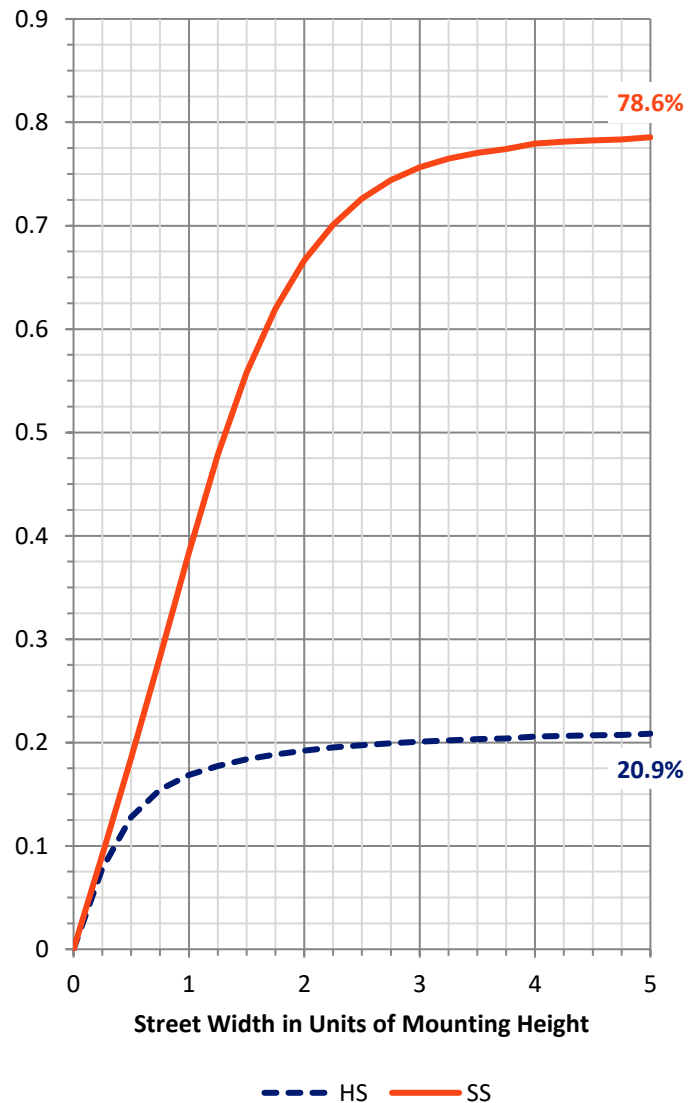
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1581.2	0.0	1581.2
	% Fixture	21.2	0.0	21.2
Street Side	Lumens	5873.8	0.0	5873.8
	% Fixture	78.8	0.0	78.8
Total	Lumens	7455.0	0.0	7455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.1
10°-20°	75.8	1.0
20°-30°	299.0	4.0
30°-40°	665.3	8.9
40°-50°	1129.7	15.2
50°-60°	1683.5	22.6
60°-70°	1982.6	26.6
70°-80°	1387.8	18.6
80°-90°	226.6	3.0
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°	7455.0	100.0
0°-180°	7455.0	100.0



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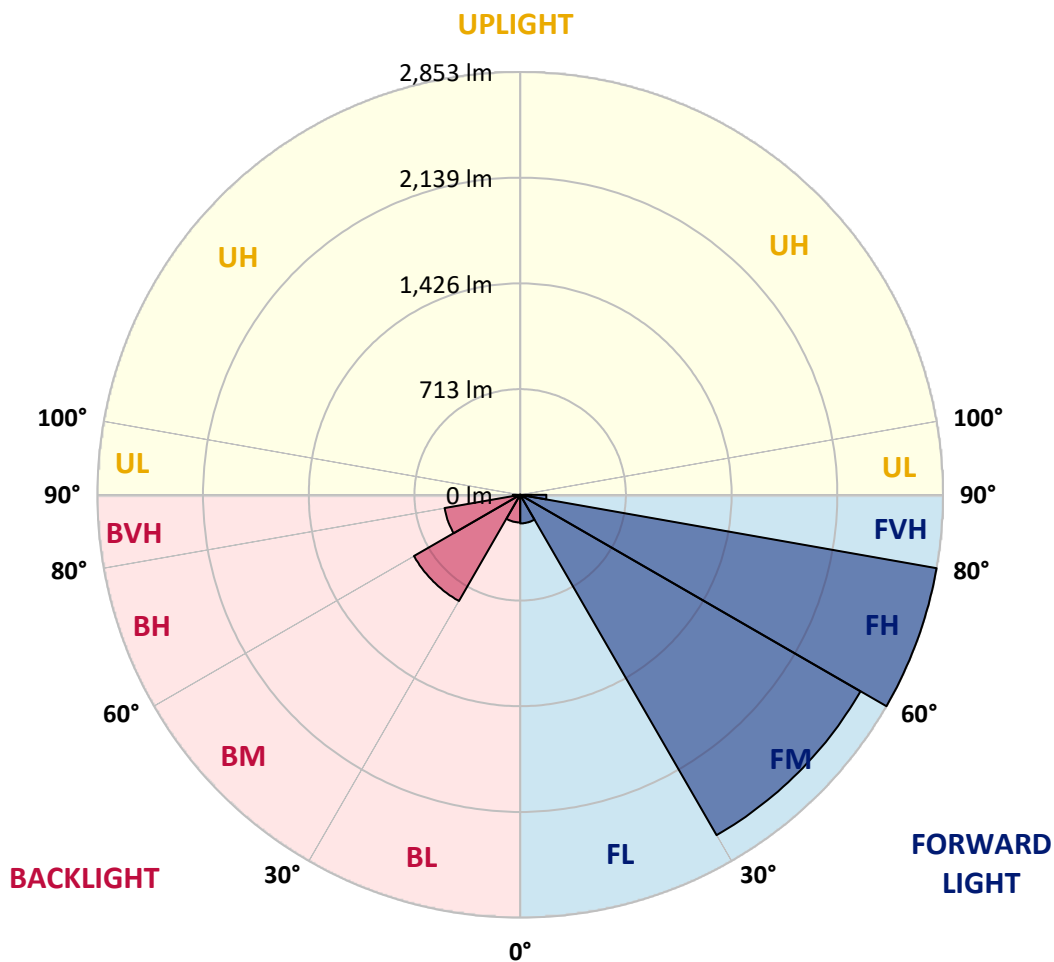
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.1	2.6			
FM	(30°-60°)	2651.1	35.6			
FH	(60°-80°)	2852.5	38.3			G2/5000
FVH	(80°-90°)	177.1	2.4			G2/225
BL	(0°-30°)	186.5	2.5	B1/500		
BM	(30°-60°)	827.4	11.1	B1/1000		
BH	(60°-80°)	517.9	6.9	B2/1000		G2/1000
BVH	(80°-90°)	49.5	0.7			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	83°	85°
0°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
2.5°	4.0	3.2	4.0	4.8	4.8	4.0	3.2	3.2	3.2	3.2	2.4
5°	65.0	47.4	42.5	37.7	22.5	8.0	4.8	3.2	3.2	3.2	3.2
7.5°	137.2	137.2	137.2	138.0	137.2	101.9	24.1	5.6	3.2	3.2	3.2
10°	138.8	138.0	137.2	138.0	139.6	140.4	135.6	19.3	8.0	7.2	7.2
12.5°	251.2	249.6	240.8	168.5	142.9	143.7	146.9	105.9	38.5	101.9	118.8
15°	266.5	264.8	264.8	265.7	252.0	156.5	220.7	288.9	205.5	245.6	249.6
17.5°	298.6	289.7	282.5	277.7	279.3	311.4	313.0	319.4	239.2	275.3	280.1
20°	457.5	454.3	428.6	328.3	306.6	404.5	360.4	354.7	447.8	486.4	494.4
22.5°	522.5	519.3	500.8	483.1	504.0	440.6	512.8	528.9	606.7	583.5	590.7
25°	709.5	707.1	604.3	559.4	614.8	506.4	633.2	605.9	670.1	747.2	755.2
27.5°	868.4	862.8	841.9	754.4	686.2	759.2	700.6	809.8	910.1	923.0	947.0
30°	1031.3	994.4	930.2	933.4	845.1	837.1	834.7	971.9	975.1	995.2	1036.1
32.5°	1297.8	1280.9	1227.1	1061.0	1041.7	930.2	1027.3	1036.1	1273.7	1357.1	1365.2
35°	1511.2	1439.0	1388.4	1294.5	1148.5	1184.6	1144.5	1303.4	1397.3	1451.0	1484.0
37.5°	1851.5	1861.2	1778.5	1436.6	1345.1	1303.4	1373.2	1459.1	1576.2	1589.1	1638.8
40°	2096.3	2089.9	1978.3	1726.3	1521.7	1479.1	1525.7	1610.0	1768.9	1784.9	1797.0
42.5°	2452.7	2421.4	2265.7	1982.3	1792.9	1703.1	1715.9	1751.2	1910.1	1981.5	1967.1
45°	2782.5	2761.6	2604.3	2255.2	2049.8	1944.6	1925.4	1894.1	2085.1	2180.6	2154.1
47.5°	3040.9	3004.0	2914.1	2558.6	2400.5	2221.5	2125.2	2068.2	2258.4	2380.4	2343.5
50°	3317.8	3261.6	3180.6	2859.6	2703.9	2544.1	2332.3	2260.8	2453.5	2574.6	2544.9
52.5°	3501.6	3414.1	3363.6	3127.6	2984.0	2844.3	2533.7	2485.6	2667.7	2784.1	2777.7
55°	3409.3	3406.1	3457.5	3308.2	3168.5	3020.9	2743.2	2740.8	2891.7	3011.2	3016.9
57.5°	3248.8	3265.7	3411.7	3434.2	3374.8	3201.5	3002.4	3026.5	3154.9	3265.7	3277.7
60°	3044.1	3090.7	3301.0	3419.7	3467.1	3381.2	3252.0	3288.9	3442.2	3537.7	3534.5
62.5°	2773.7	2811.4	3073.0	3341.9	3438.2	3519.3	3482.3	3601.1	3722.3	3812.2	3835.5
65°	2454.3	2469.5	2752.8	3115.6	3364.4	3589.9	3675.0	3890.9	3949.4	4087.5	4092.3
67.5°	2100.3	2105.1	2351.5	2784.1	3203.9	3584.3	3838.7	4105.1	4089.9	4236.8	4225.5
69°	1851.5	1886.0	2088.3	2514.5	3048.2	3549.8	3919.8	4175.8	4124.4	4268.1	4219.1
70°	1676.6	1674.2	1905.3	2285.7	2910.9	3505.6	3971.1	4194.2	4125.2	4246.4	4172.6
72.5°	1068.2	1084.3	1284.1	1622.0	2345.9	3250.4	4034.5	4145.3	4036.9	4024.9	3866.8
75°	471.9	428.6	553.8	858.7	1475.1	2528.1	3882.0	3924.6	3785.7	3537.7	3266.5
77.5°	165.3	171.7	208.7	349.1	710.3	1506.4	3217.5	3452.7	3343.5	2747.2	2444.6
80°	118.0	118.8	139.6	195.0	344.3	531.3	2048.2	2497.6	2573.0	1811.4	1557.0
82.5°	83.5	83.5	103.5	124.4	238.4	237.6	881.2	1374.0	1467.9	803.4	601.1
85°	69.8	71.4	79.5	72.2	139.6	121.2	217.5	423.8	347.5	97.9	85.9
87.5°	10.4	9.6	27.3	24.1	20.9	17.7	24.1	27.3	18.5	14.4	10.4
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°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
2.5°	3.2	3.2	3.2	3.2	2.4	1.6	1.6	1.6	2.4	2.4	2.4
5°	3.2	3.2	3.2	3.2	3.2	3.2	4.0	5.6	6.4	7.2	7.2
7.5°	3.2	3.2	3.2	4.0	4.8	7.2	39.3	136.4	149.3	155.7	159.7
10°	6.4	7.2	7.2	7.2	17.7	150.9	179.8	186.2	192.6	195.8	195.0
12.5°	124.4	128.4	32.1	23.3	140.4	188.6	194.2	200.6	207.1	211.9	211.1
15°	256.0	262.4	252.0	260.8	276.9	204.7	209.5	354.7	384.4	390.0	390.9
17.5°	285.7	290.5	295.3	384.4	394.1	303.4	362.8	389.2	392.5	394.1	394.9
20°	544.1	541.7	438.2	421.3	417.3	526.5	385.2	392.5	469.5	534.5	537.7
22.5°	600.3	607.5	578.7	618.8	548.2	532.9	485.6	520.1	549.0	548.2	545.7
25°	778.5	788.1	663.7	643.7	657.3	529.7	605.9	519.3	527.3	528.1	532.9
27.5°	973.5	975.9	921.3	724.7	646.9	655.7	570.6	553.0	618.0	622.0	622.0
30°	1060.2	1075.4	973.5	839.5	670.1	619.6	553.0	602.7	573.8	578.7	578.7
32.5°	1408.5	1396.5	1271.3	831.5	694.2	569.8	577.9	558.6	618.8	634.8	636.4
35°	1500.0	1475.1	1278.5	929.4	647.7	581.9	528.1	567.4	567.4	566.6	562.6
37.5°	1613.2	1569.8	1263.2	860.4	651.7	531.3	509.6	510.4	557.0	567.4	560.2
40°	1747.2	1682.2	1260.8	803.4	590.7	503.2	467.9	491.2	490.4	476.7	468.7
42.5°	1892.5	1806.6	1255.2	736.0	530.5	471.9	441.4	434.2	438.2	413.3	410.9
45°	2062.6	1935.0	1239.2	676.6	482.3	438.2	403.7	392.5	394.1	374.8	370.0
47.5°	2243.2	2067.4	1235.2	630.0	442.2	404.5	376.4	362.0	367.6	345.9	341.1
50°	2444.6	2203.9	1221.5	586.7	398.1	373.2	352.3	335.5	336.3	319.4	315.4
52.5°	2663.7	2336.3	1206.3	527.3	357.9	346.7	334.7	321.8	336.3	313.8	309.0
55°	2888.4	2497.6	1186.2	458.3	321.8	326.6	314.6	324.2	345.1	309.8	303.4
57.5°	3138.0	2649.3	1148.5	382.8	292.9	304.2	312.2	325.0	341.9	309.0	297.0
60°	3374.8	2795.4	1058.6	323.4	268.1	285.7	307.4	320.2	318.6	303.4	295.3
62.5°	3615.6	2915.7	892.5	277.7	247.2	276.9	300.2	305.8	298.6	292.9	288.1
65°	3748.0	2945.4	691.8	247.2	230.3	264.8	291.3	296.1	285.7	285.7	281.7
67.5°	3726.3	2849.9	510.4	222.3	215.9	252.8	276.1	287.3	280.1	285.7	279.3
69°	3639.7	2740.8	401.3	209.5	208.7	243.2	267.3	280.1	274.5	282.5	274.5
70°	3537.7	2630.8	354.7	202.2	201.4	236.0	261.6	274.5	268.1	274.5	267.3
72.5°	3146.9	2257.6	254.4	182.2	184.6	221.5	248.0	257.6	252.0	253.6	244.0
75°	2516.1	1678.2	201.4	165.3	167.7	204.7	232.7	238.4	234.4	227.1	221.5
77.5°	1768.9	1081.9	165.3	150.1	150.9	184.6	216.7	215.9	209.5	202.2	195.0
80°	964.7	508.8	140.4	131.6	134.0	164.5	193.4	191.0	183.0	175.8	166.9
82.5°	417.3	205.5	109.1	105.1	112.4	138.0	166.1	159.7	152.5	155.7	121.2
85°	74.6	70.6	63.4	67.4	76.2	97.9	117.2	111.6	107.5	91.5	84.3
87.5°	6.4	9.6	9.6	12.0	16.9	18.5	32.9	24.1	24.9	9.6	4.8
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)