

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: P416924

Luminaire Tested: **LXF.LXT-PA1-80-827-U-T2U**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-827-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6827 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

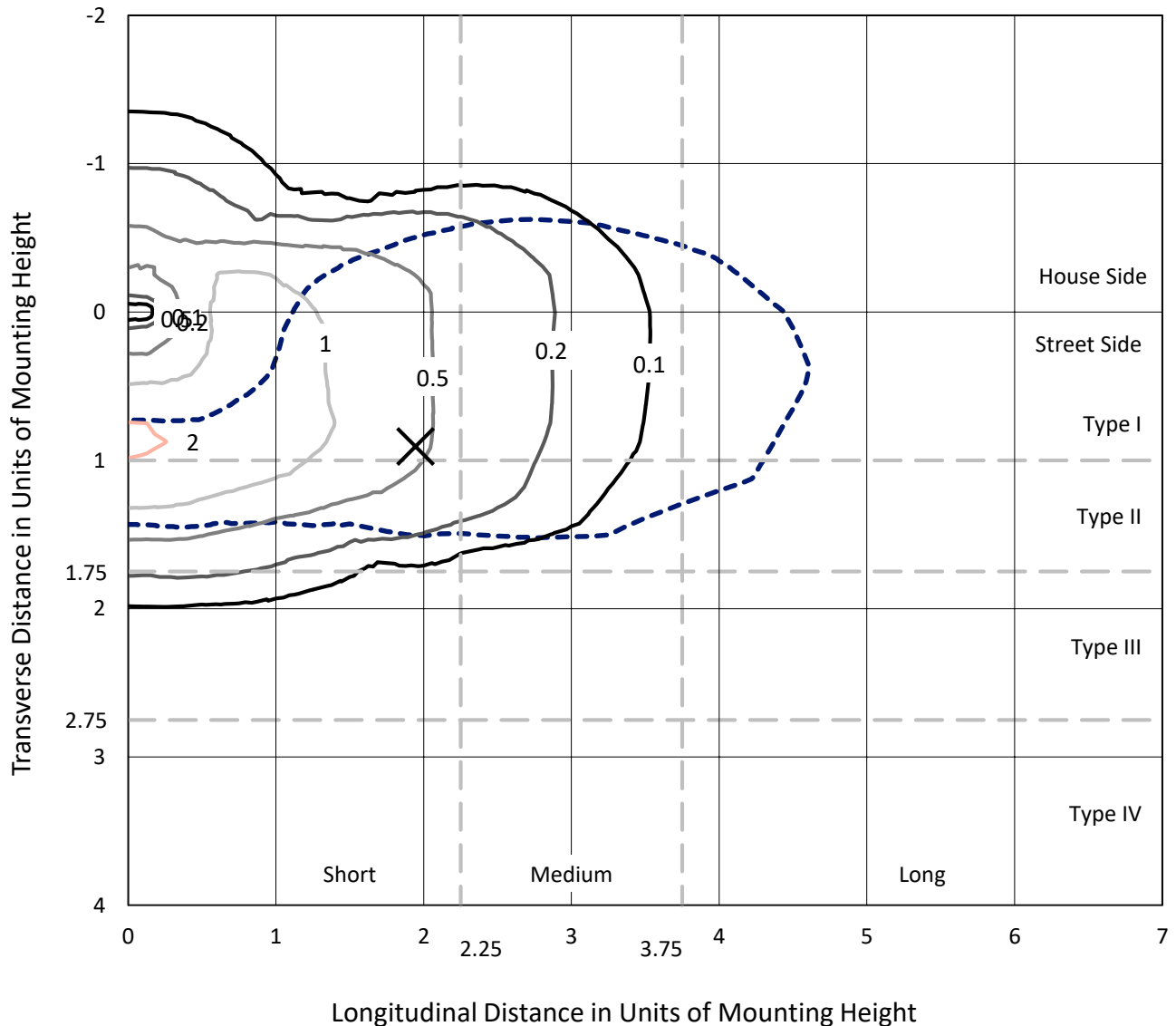
Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

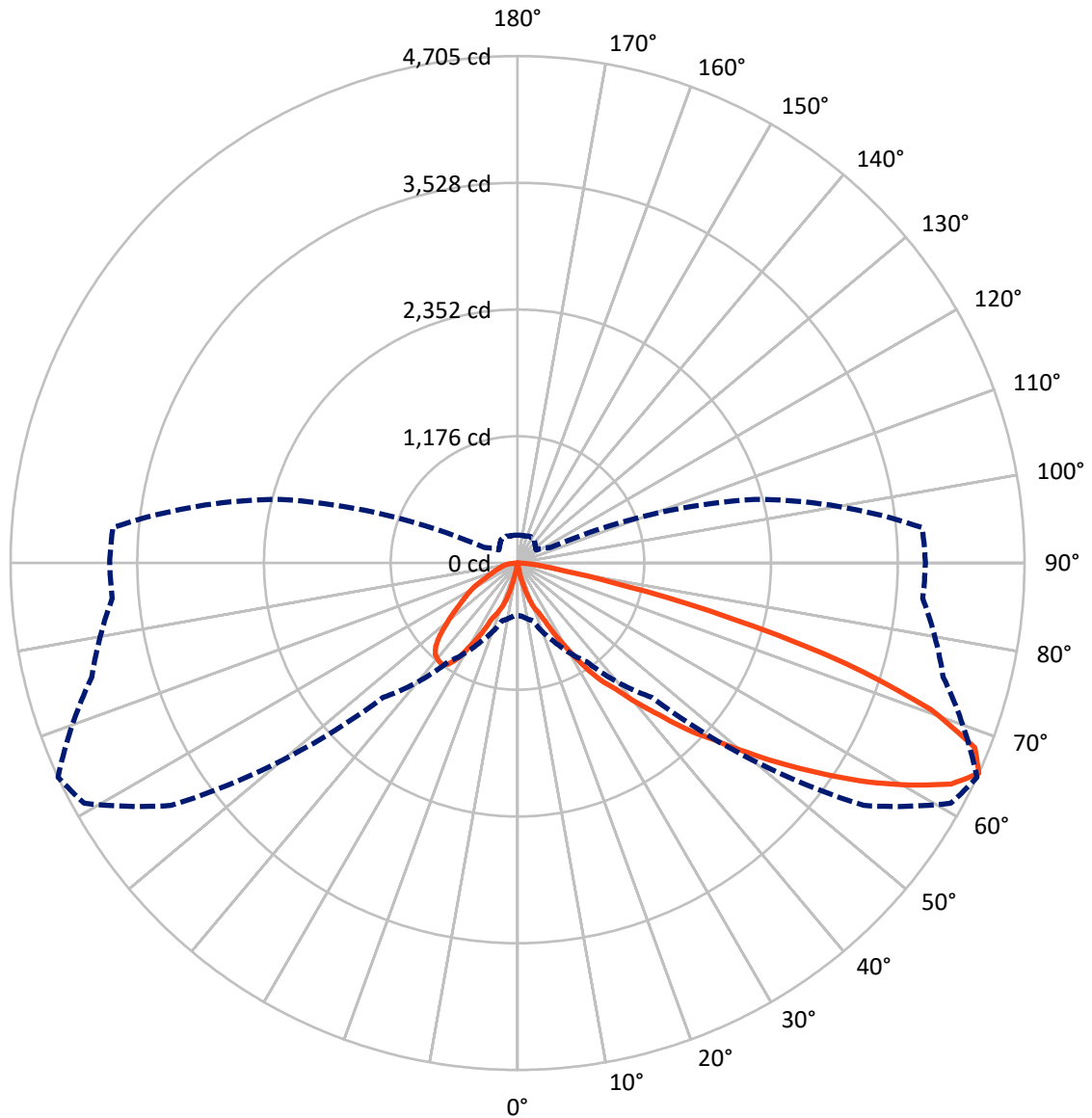


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.1	0.0	1842.1
	% Fixture	27.0	0.0	27.0
Street Side	Lumens	4984.9	0.0	4984.9
	% Fixture	73.0	0.0	73.0
Total	Lumens	6827.0	0.0	6827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	75.4	1.1
20°-30°	290.4	4.3
30°-40°	726.7	10.6
40°-50°	1353.0	19.8
50°-60°	1771.7	26.0
60°-70°	1588.3	23.3
70°-80°	873.7	12.8
80°-90°	142.8	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°	6827.0	100.0
0°-180°	6827.0	100.0



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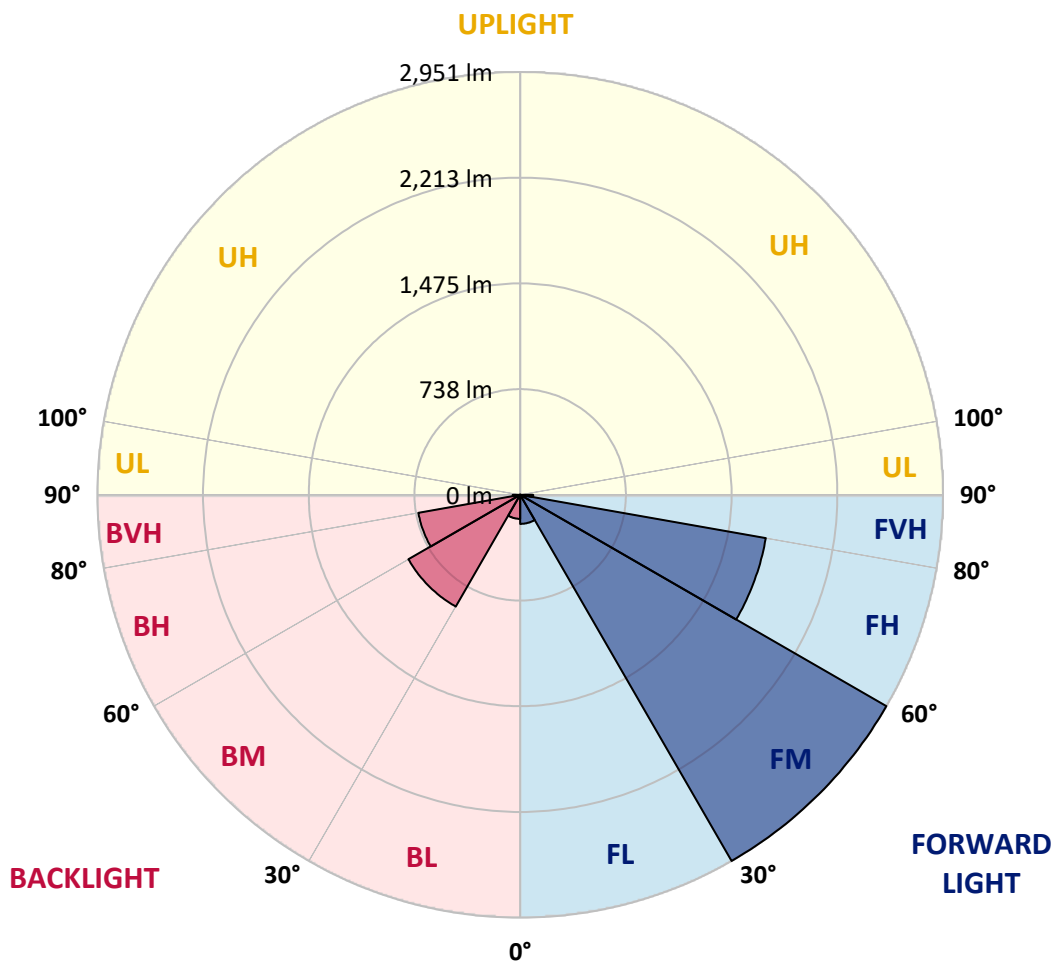
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.0	3.0			
FM	(30°-60°)	2950.7	43.2			
FH	(60°-80°)	1740.6	25.5			G1/1800
FVH	(80°-90°)	90.6	1.3			G1/100
BL	(0°-30°)	167.8	2.5	B1/500		
BM	(30°-60°)	900.8	13.2	B1/1000		
BH	(60°-80°)	721.4	10.6	B2/1000		G2/1000
BVH	(80°-90°)	52.2	0.8			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°	61°	65°	75°	85°
0°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
2.5°	3.7	3.7	4.4	5.1	5.1	4.4	3.7	2.9	2.2	1.5	1.5
5°	33.8	30.1	23.5	16.2	9.6	7.4	5.9	4.4	3.7	2.2	1.5
7.5°	165.4	164.7	163.9	164.7	161.0	63.2	11.8	7.4	5.9	2.9	2.2
10°	166.1	165.4	164.7	166.1	166.1	163.9	155.8	22.8	11.8	7.4	7.4
12.5°	295.5	285.2	197.0	173.5	167.6	167.6	167.6	150.0	142.6	105.1	127.2
15°	310.2	308.0	307.3	308.7	273.5	180.8	252.9	238.2	241.1	205.8	244.1
17.5°	326.4	322.7	319.8	320.5	308.0	355.1	332.3	339.6	342.6	260.2	285.2
20°	505.7	505.7	467.5	354.3	388.9	445.5	367.5	403.6	446.9	388.9	399.2
22.5°	574.1	569.0	563.8	534.4	488.8	485.9	534.4	468.3	496.9	571.2	527.8
25°	780.7	782.1	655.7	616.7	682.9	595.4	638.1	634.4	600.6	692.5	668.9
27.5°	988.0	990.9	976.9	869.6	780.7	766.0	726.3	782.9	774.1	768.2	823.3
30°	1181.3	1180.6	1117.4	1072.5	1024.7	939.5	895.4	907.1	942.4	910.1	1026.9
32.5°	1643.7	1631.2	1563.6	1279.1	1205.6	1125.4	1112.9	1079.9	1150.4	1127.6	1235.7
35°	1951.7	1948.7	1826.0	1665.7	1433.4	1344.5	1346.0	1284.2	1342.3	1371.7	1388.6
37.5°	2639.7	2629.4	2442.7	1973.0	1790.0	1606.9	1573.1	1543.7	1483.4	1568.7	1568.0
40°	3010.2	2980.8	2816.2	2506.7	2101.6	1881.1	1810.5	1747.3	1704.0	1753.9	1747.3
42.5°	3298.4	3275.6	3159.5	2839.0	2508.2	2336.9	2073.7	2013.4	1926.0	1985.5	1954.6
45°	3505.0	3493.2	3389.5	3151.4	2897.8	2772.1	2370.7	2276.6	2200.9	2192.8	2174.4
47.5°	3544.6	3519.7	3488.8	3355.0	3246.9	3209.4	2738.2	2575.8	2450.8	2427.3	2396.4
50°	3357.2	3349.8	3390.3	3366.0	3497.6	3585.1	3162.4	2937.5	2762.5	2679.4	2619.9
52.5°	2922.8	2938.2	3093.3	3201.4	3529.2	3846.8	3560.8	3343.2	3104.3	2921.3	2841.2
55°	2322.2	2378.0	2608.1	2833.1	3331.5	3960.0	3938.7	3767.4	3459.4	3191.8	3073.4
57.5°	1783.3	1777.5	2073.7	2278.1	2930.1	3884.3	4184.2	4135.7	3832.8	3472.6	3295.4
60°	1155.6	1150.4	1500.3	1762.0	2258.2	3496.1	4311.4	4438.5	4183.4	3715.2	3495.4
62.5°	754.2	785.8	918.9	1290.8	1612.8	2703.7	4268.7	4626.7	4517.2	3940.1	3687.3
65°	485.2	496.9	555.0	804.2	1118.1	1763.5	3923.2	4598.8	4704.6	4090.1	3774.7
67.5°	361.7	364.6	392.5	499.9	760.8	921.8	3079.3	4210.6	4577.5	4100.4	3746.1
70°	317.6	323.4	350.6	377.1	566.0	580.0	1800.3	3385.1	4067.3	3952.6	3601.2
72.5°	271.3	277.1	313.2	351.4	433.0	435.2	673.4	2249.4	3184.4	3652.7	3369.0
75°	221.3	224.9	256.5	308.0	360.9	349.2	389.6	1016.6	2038.4	3036.0	3005.1
77.5°	178.6	181.6	204.4	245.5	319.8	267.6	290.4	435.9	1013.0	2192.1	2434.6
80°	129.4	130.8	152.9	188.2	240.4	238.9	216.9	276.4	418.3	1280.5	1612.1
82.5°	82.3	82.3	105.1	123.5	159.5	236.0	152.2	186.0	233.8	637.3	775.5
85°	46.3	47.8	66.2	72.0	93.4	143.3	109.5	102.9	126.4	230.8	191.1
87.5°	8.8	11.0	19.1	20.6	24.3	33.8	39.7	36.0	37.5	53.7	31.6
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°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
2.5°	1.5	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.2	2.2
5°	1.5	2.2	2.9	2.9	3.7	5.1	5.9	5.9	6.6	7.4	6.6
7.5°	1.5	2.2	2.9	4.4	5.9	11.8	42.6	150.7	161.7	163.9	166.9
10°	6.6	6.6	7.4	8.1	33.1	158.0	169.8	171.3	172.7	173.5	174.2
12.5°	129.4	127.9	127.2	97.8	150.7	174.2	176.4	177.9	180.1	214.6	232.3
15°	247.0	247.7	235.2	225.7	262.4	191.1	203.6	314.6	325.6	329.3	331.5
17.5°	283.0	295.5	262.4	348.4	345.5	291.1	320.5	337.4	338.9	341.1	341.8
20°	402.1	399.2	382.3	436.6	374.2	478.5	397.0	341.8	430.0	473.4	474.1
22.5°	521.9	522.7	498.4	504.3	538.1	492.5	397.7	451.4	462.4	461.6	459.4
25°	672.6	666.7	655.0	560.9	635.1	535.9	529.3	437.4	438.9	474.1	496.9
27.5°	822.6	807.9	761.6	727.0	659.4	596.2	499.9	473.4	510.2	508.0	508.7
30°	1029.9	1007.1	879.2	874.8	699.8	590.3	508.7	471.2	458.7	461.6	460.2
32.5°	1237.2	1196.0	1080.6	1043.1	746.1	549.9	466.8	435.2	471.2	476.3	473.4
35°	1365.1	1331.3	1291.6	1142.3	751.3	506.5	422.7	430.0	427.8	425.6	427.1
37.5°	1514.3	1459.2	1424.6	1176.2	708.6	452.1	402.8	397.0	432.2	433.0	430.0
40°	1681.2	1618.7	1541.5	1160.7	611.6	409.5	374.2	393.3	395.5	386.7	384.5
42.5°	1869.4	1778.2	1663.5	1140.1	507.2	384.5	363.1	365.3	366.8	357.3	353.6
45°	2059.0	1952.4	1767.9	1082.8	431.5	359.5	346.2	345.5	338.1	329.3	327.1
47.5°	2271.5	2146.5	1853.9	982.8	377.8	340.4	335.2	321.2	323.4	315.4	314.6
50°	2490.5	2356.0	1903.2	863.0	342.6	324.2	315.4	310.9	316.8	307.3	305.8
52.5°	2705.2	2592.7	1981.1	755.7	312.4	310.2	306.5	308.0	310.2	299.9	299.2
55°	2938.2	2857.3	2052.4	653.5	286.0	291.1	303.6	302.9	302.1	292.6	292.6
57.5°	3152.1	3112.4	2125.2	574.8	265.4	274.2	297.0	297.0	293.3	285.2	284.5
60°	3400.6	3371.2	2194.3	504.3	247.7	258.8	288.9	289.6	283.0	277.1	275.7
62.5°	3626.2	3604.2	2249.4	430.0	228.6	245.5	277.1	282.3	272.7	268.3	268.3
65°	3785.0	3769.6	2279.5	338.1	210.2	232.3	264.6	272.0	259.5	258.8	258.8
67.5°	3799.0	3789.4	2217.1	282.3	197.0	219.8	249.2	256.5	245.5	247.7	243.3
70°	3668.9	3599.0	2039.9	235.2	183.8	203.6	230.8	239.6	228.6	229.4	222.0
72.5°	3394.0	3192.5	1726.7	199.9	169.1	186.0	211.0	219.1	208.8	206.6	198.5
75°	2931.6	2620.6	1201.9	173.5	153.6	166.9	186.7	194.8	188.2	177.2	175.0
77.5°	2270.7	1920.8	736.6	150.0	139.7	147.0	161.7	166.1	159.5	146.3	144.1
80°	1431.2	1151.9	355.1	130.1	121.3	125.0	134.5	138.2	133.1	119.8	112.5
82.5°	655.7	497.7	187.5	105.1	98.5	98.5	108.1	105.1	100.7	88.2	71.3
85°	152.9	157.3	86.7	64.7	62.5	55.9	64.7	64.0	57.3	44.1	36.8
87.5°	25.0	27.9	22.1	19.8	16.2	12.5	14.0	11.8	10.3	5.1	2.2
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)