

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: P417340

Luminaire Tested: **LXF.LXT-PA1-90-827-U-T2U**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P417340
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-PA1-90-827-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7361 lumens
Efficiency: N/A
Efficacy: 78.3 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

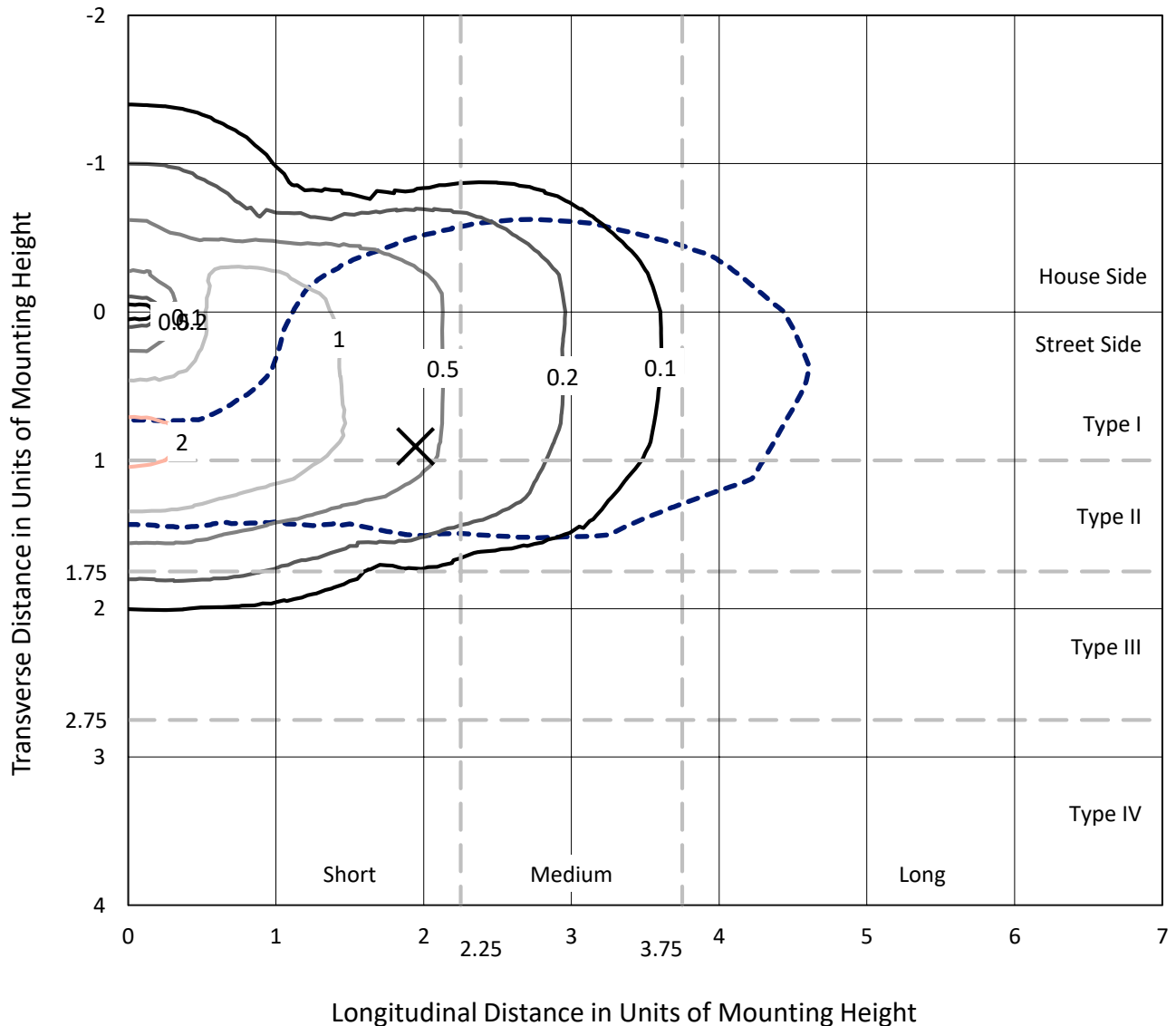
Input Watts (W): 94
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

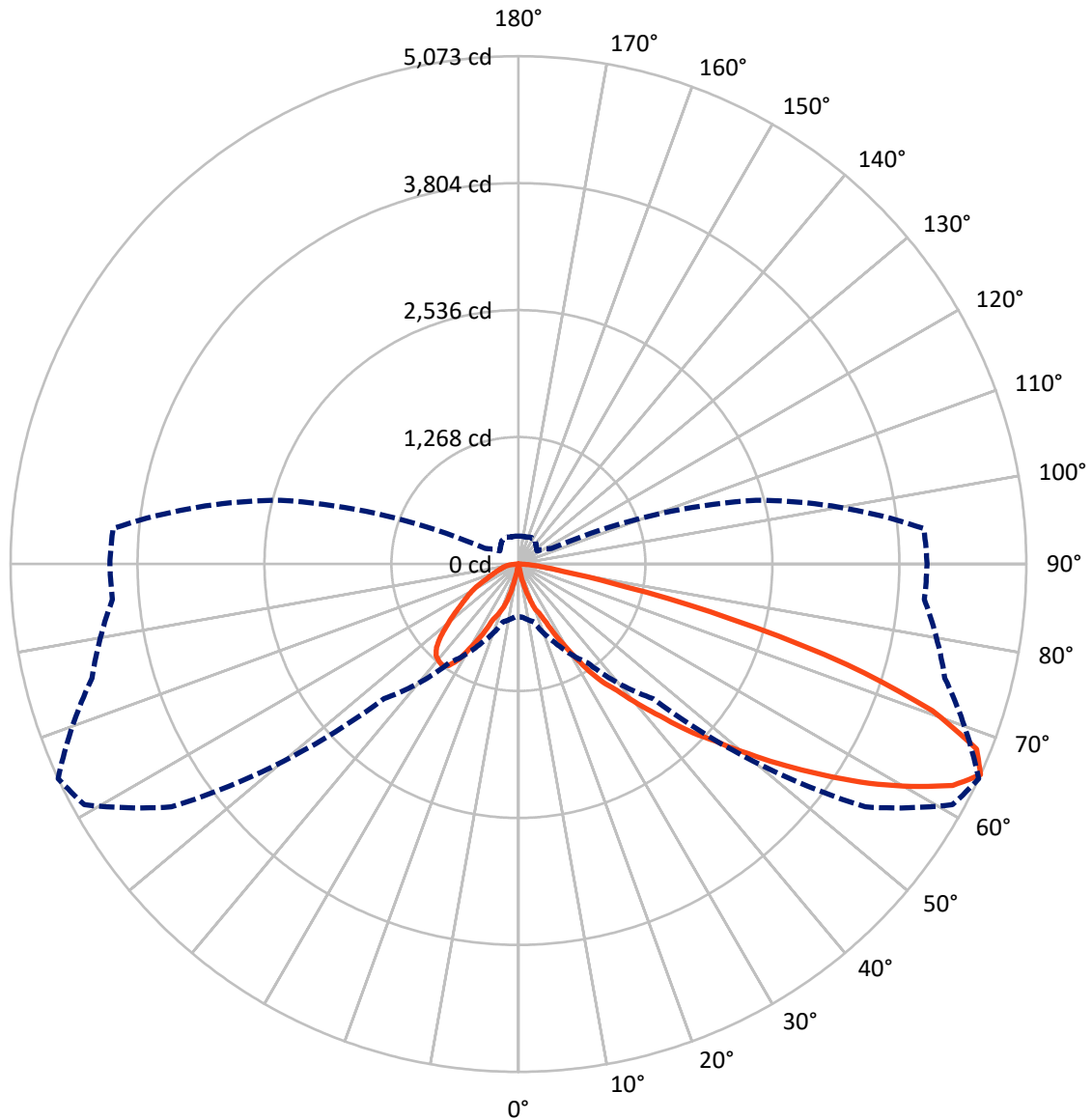
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1986.2	0.0	1986.2
	% Fixture	27.0	0.0	27.0
Street Side	Lumens	5374.8	0.0	5374.8
	% Fixture	73.0	0.0	73.0
Total	Lumens	7361.0	0.0	7361.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	81.3	1.1
20°-30°	313.1	4.3
30°-40°	783.5	10.6
40°-50°	1458.9	19.8
50°-60°	1910.3	26.0
60°-70°	1712.6	23.3
70°-80°	942.0	12.8
80°-90°	153.9	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°	7361.0	100.0
0°-180°	7361.0	100.0



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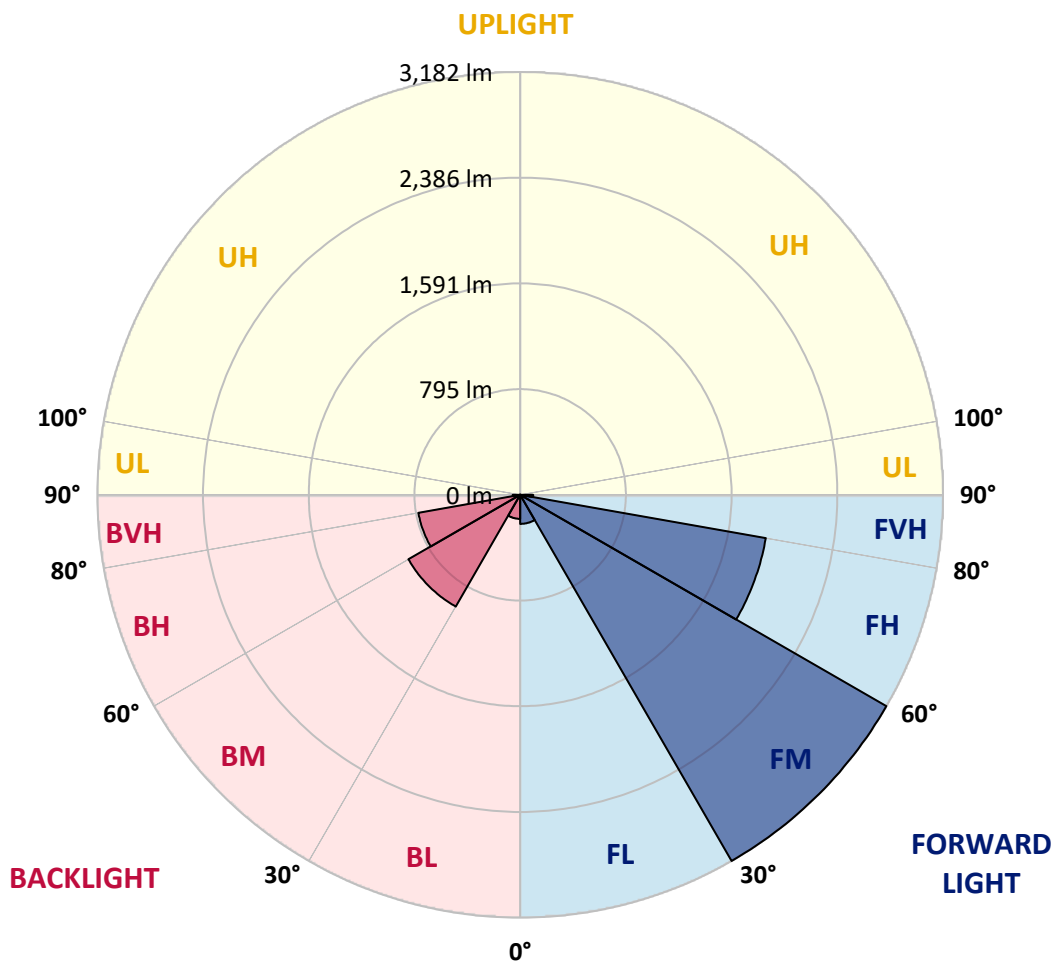
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.8	3.0			
FM	(30°-60°)	3181.5	43.2			
FH	(60°-80°)	1876.8	25.5			G2/5000
FVH	(80°-90°)	97.7	1.3			G1/100
BL	(0°-30°)	180.9	2.5	B1/500		
BM	(30°-60°)	971.2	13.2	B1/1000		
BH	(60°-80°)	777.8	10.6	B2/1000		G2/1000
BVH	(80°-90°)	56.3	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°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
2.5°	4.0	4.0	4.8	5.5	5.5	4.8	4.0	3.2	2.4	1.6	1.6
5°	36.5	32.5	25.4	17.4	10.3	7.9	6.3	4.8	4.0	2.4	1.6
7.5°	178.3	177.5	176.7	177.5	173.6	68.2	12.7	7.9	6.3	3.2	2.4
10°	179.1	178.3	177.5	179.1	179.1	176.7	168.0	24.6	12.7	7.9	7.9
12.5°	318.6	307.5	212.4	187.1	180.7	180.7	180.7	161.7	153.8	113.3	137.1
15°	334.5	332.1	331.3	332.9	294.8	195.0	272.7	256.8	260.0	221.9	263.1
17.5°	351.9	348.0	344.8	345.6	332.1	382.8	358.3	366.2	369.4	280.6	307.5
20°	545.3	545.3	504.1	382.0	419.3	480.3	396.3	435.1	481.9	419.3	430.4
22.5°	619.0	613.5	607.9	576.2	527.1	523.9	576.2	504.9	535.8	615.8	569.1
25°	841.7	843.3	707.0	665.0	736.3	642.0	688.0	684.0	647.6	746.6	721.3
27.5°	1065.3	1068.4	1053.4	937.6	841.7	825.9	783.1	844.1	834.6	828.3	887.7
30°	1273.7	1272.9	1204.7	1156.4	1104.9	1012.9	965.4	978.1	1016.1	981.2	1107.3
32.5°	1772.2	1758.8	1685.9	1379.1	1299.9	1213.5	1200.0	1164.3	1240.4	1215.8	1332.4
35°	2104.3	2101.2	1968.8	1796.0	1545.6	1449.7	1451.2	1384.7	1447.3	1479.0	1497.2
37.5°	2846.2	2835.1	2633.8	2127.3	1930.0	1732.6	1696.2	1664.5	1599.5	1691.4	1690.6
40°	3245.7	3214.0	3036.4	2702.8	2266.0	2028.3	1952.2	1884.0	1837.2	1891.1	1884.0
42.5°	3556.4	3531.8	3406.6	3061.0	2704.3	2519.7	2235.9	2170.9	2076.6	2140.8	2107.5
45°	3779.1	3766.4	3654.7	3397.9	3124.4	2988.9	2556.1	2454.7	2373.0	2364.3	2344.5
47.5°	3821.9	3795.0	3761.7	3617.4	3500.9	3460.5	2952.4	2777.3	2642.5	2617.2	2583.9
50°	3619.8	3611.9	3655.5	3629.3	3771.2	3865.5	3409.8	3167.2	2978.6	2889.0	2824.8
52.5°	3151.4	3168.0	3335.2	3451.8	3805.3	4147.7	3839.3	3604.7	3347.1	3149.8	3063.4
55°	2503.8	2564.1	2812.1	3054.7	3592.1	4269.7	4246.7	4062.1	3730.0	3441.5	3313.8
57.5°	1922.8	1916.5	2235.9	2456.3	3159.3	4188.1	4511.5	4459.2	4132.6	3744.2	3553.2
60°	1246.0	1240.4	1617.7	1899.9	2434.9	3769.6	4648.6	4785.7	4510.7	4005.8	3768.8
62.5°	813.2	847.3	990.7	1391.8	1739.0	2915.2	4602.6	4988.6	4870.5	4248.3	3975.7
65°	523.1	535.8	598.4	867.1	1205.5	1901.4	4230.1	4958.5	5072.6	4410.0	4070.0
67.5°	390.0	393.1	423.2	539.0	820.3	993.9	3320.2	4540.0	4935.5	4421.1	4039.1
70°	342.4	348.7	378.1	406.6	610.3	625.4	1941.1	3649.9	4385.4	4261.8	3882.9
72.5°	292.5	298.8	337.6	378.9	466.8	469.2	726.0	2425.3	3433.5	3938.4	3632.5
75°	238.6	242.5	276.6	332.1	389.2	376.5	420.1	1096.2	2197.9	3273.4	3240.1
77.5°	192.6	195.8	220.3	264.7	344.8	288.5	313.1	470.0	1092.2	2363.5	2625.1
80°	139.5	141.1	164.9	202.9	259.2	257.6	233.8	298.0	451.0	1380.7	1738.2
82.5°	88.8	88.8	113.3	133.2	172.0	254.4	164.1	200.5	252.0	687.2	836.2
85°	49.9	51.5	71.3	77.7	100.7	154.6	118.1	111.0	136.3	248.9	206.1
87.5°	9.5	11.9	20.6	22.2	26.2	36.5	42.8	38.8	40.4	57.9	34.1
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°	1.6	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4
5°	1.6	2.4	3.2	3.2	4.0	5.5	6.3	6.3	7.1	7.9	7.1
7.5°	1.6	2.4	3.2	4.8	6.3	12.7	46.0	162.5	174.4	176.7	179.9
10°	7.1	7.1	7.9	8.7	35.7	170.4	183.1	184.7	186.3	187.1	187.8
12.5°	139.5	137.9	137.1	105.4	162.5	187.8	190.2	191.8	194.2	231.4	250.5
15°	266.3	267.1	253.6	243.3	283.0	206.1	219.5	339.2	351.1	355.1	357.5
17.5°	305.2	318.6	283.0	375.7	372.5	313.9	345.6	363.8	365.4	367.8	368.6
20°	433.6	430.4	412.2	470.8	403.4	516.0	428.0	368.6	463.7	510.4	511.2
22.5°	562.7	563.5	537.4	543.7	580.2	531.0	428.8	486.7	498.5	497.8	495.4
25°	725.2	718.9	706.2	604.8	684.8	577.8	570.7	471.6	473.2	511.2	535.8
27.5°	886.9	871.1	821.1	783.9	711.0	642.8	539.0	510.4	550.1	547.7	548.5
30°	1110.4	1085.9	947.9	943.2	754.6	636.5	548.5	508.1	494.6	497.8	496.2
32.5°	1333.9	1289.6	1165.1	1124.7	804.5	592.9	503.3	469.2	508.1	513.6	510.4
35°	1471.9	1435.4	1392.6	1231.7	810.0	546.1	455.7	463.7	461.3	458.9	460.5
37.5°	1632.8	1573.3	1536.1	1268.2	764.1	487.4	434.3	428.0	466.0	466.8	463.7
40°	1812.7	1745.3	1662.1	1251.5	659.4	441.5	403.4	424.0	426.4	416.9	414.5
42.5°	2015.6	1917.3	1793.6	1229.3	546.9	414.5	391.5	393.9	395.5	385.2	381.2
45°	2220.1	2105.1	1906.2	1167.5	465.3	387.6	373.3	372.5	364.6	355.1	352.7
47.5°	2449.1	2314.4	1998.9	1059.7	407.4	367.0	361.4	346.4	348.7	340.0	339.2
50°	2685.3	2540.3	2052.0	930.5	369.4	349.5	340.0	335.3	341.6	331.3	329.7
52.5°	2916.8	2795.5	2136.1	814.8	336.9	334.5	330.5	332.1	334.5	323.4	322.6
55°	3168.0	3080.8	2212.9	704.6	308.3	313.9	327.3	326.6	325.8	315.5	315.5
57.5°	3398.7	3355.9	2291.4	619.8	286.1	295.6	320.2	320.2	316.2	307.5	306.7
60°	3666.6	3634.9	2365.9	543.7	267.1	279.0	311.5	312.3	305.2	298.8	297.2
62.5°	3909.9	3886.1	2425.3	463.7	246.5	264.7	298.8	304.4	294.1	289.3	289.3
65°	4081.1	4064.4	2457.8	364.6	226.7	250.5	285.3	293.3	279.8	279.0	279.0
67.5°	4096.1	4085.8	2390.5	304.4	212.4	237.0	268.7	276.6	264.7	267.1	262.3
70°	3955.9	3880.6	2199.5	253.6	198.1	219.5	248.9	258.4	246.5	247.3	239.4
72.5°	3659.4	3442.3	1861.8	215.6	182.3	200.5	227.5	236.2	225.1	222.7	214.0
75°	3160.9	2825.6	1295.9	187.1	165.7	179.9	201.3	210.0	202.9	191.0	188.6
77.5°	2448.3	2071.1	794.2	161.7	150.6	158.5	174.4	179.1	172.0	157.7	155.3
80°	1543.2	1242.0	382.8	140.3	130.8	134.7	145.0	149.0	143.5	129.2	121.3
82.5°	707.0	536.6	202.1	113.3	106.2	106.2	116.5	113.3	108.6	95.1	76.9
85°	164.9	169.6	93.5	69.7	67.4	60.2	69.7	69.0	61.8	47.6	39.6
87.5°	26.9	30.1	23.8	21.4	17.4	13.5	15.1	12.7	11.1	5.5	2.4
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)