

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: P253985

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253985
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-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 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: 8524.4 lumens
Efficiency: N/A
Efficacy: 88.8 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

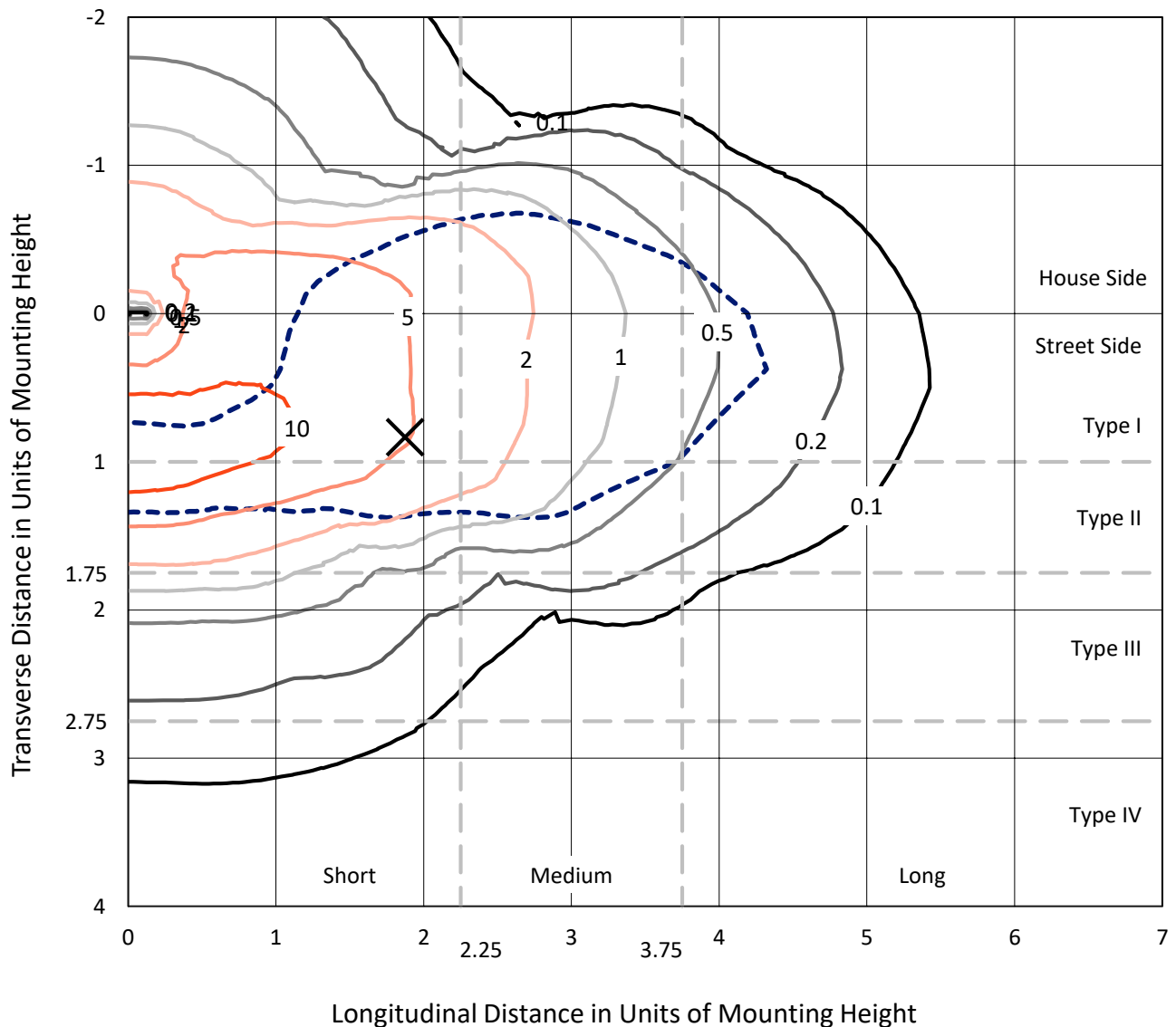
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

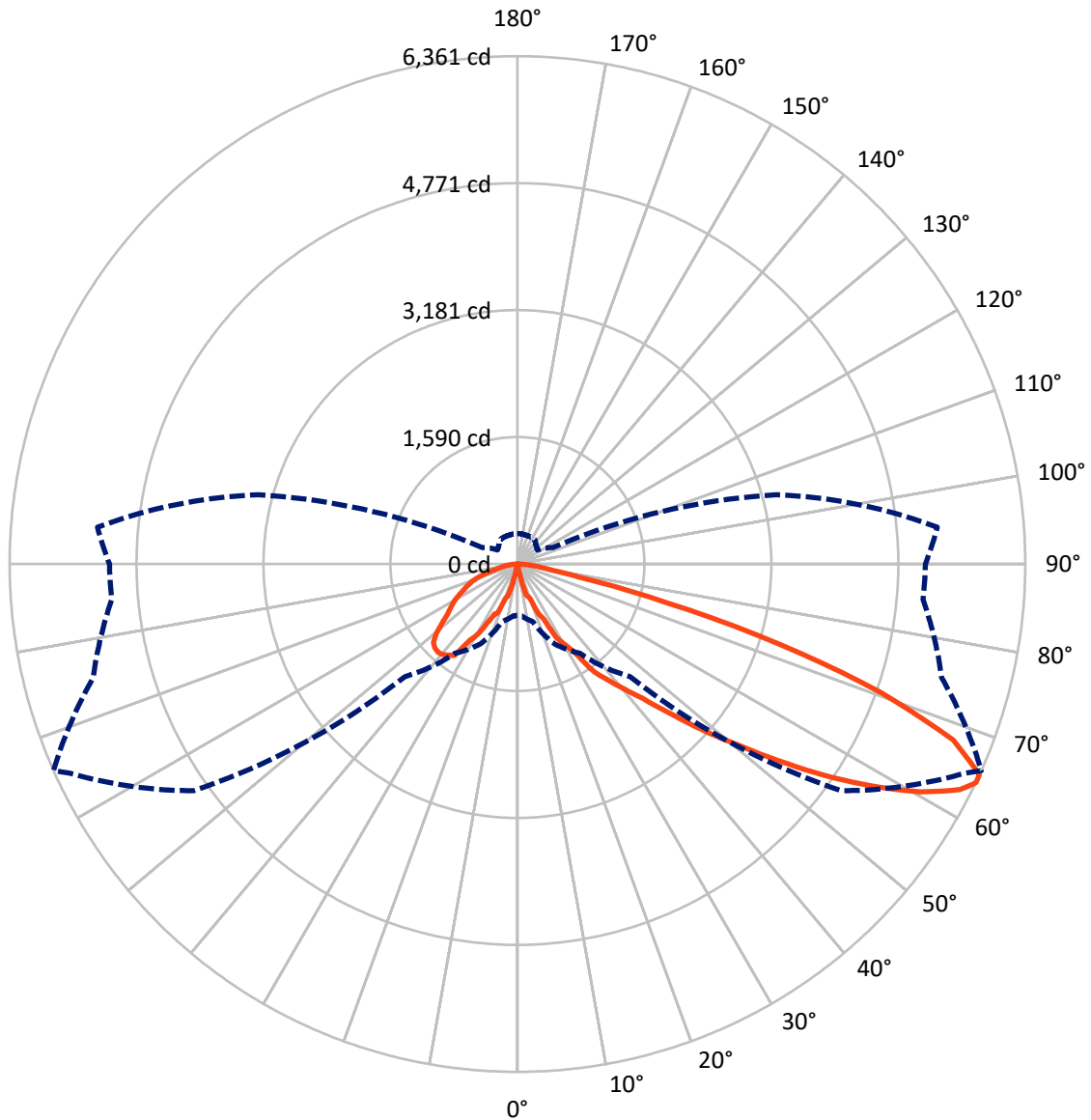


Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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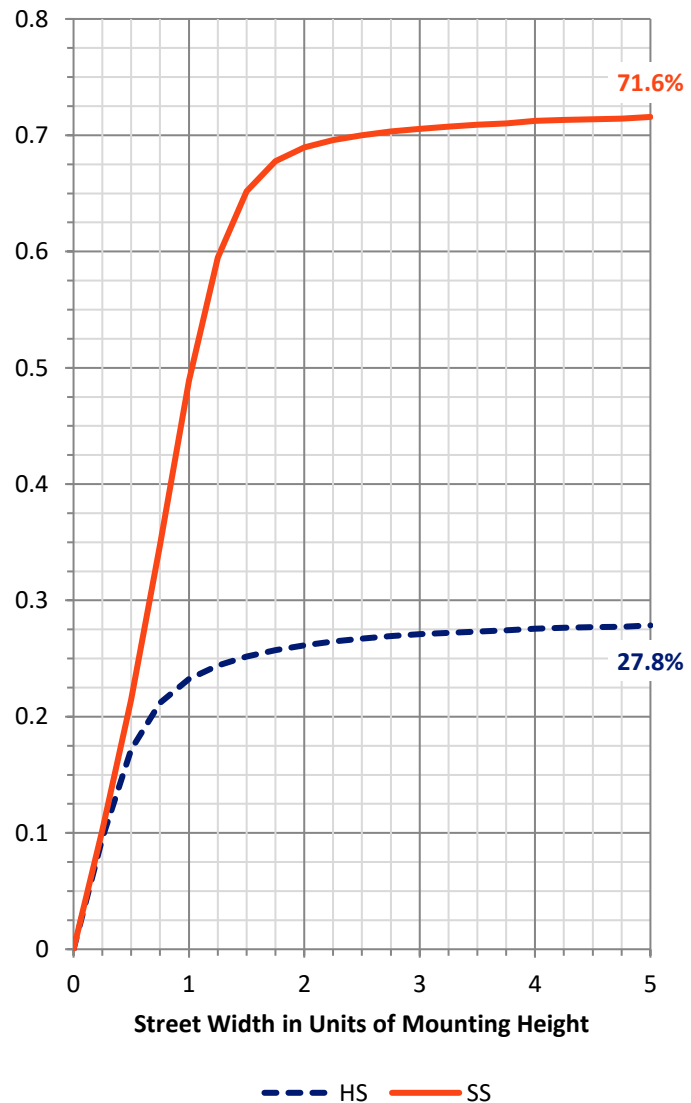
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.9	0.0	2400.9
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	6123.5	0.0	6123.5
	% Fixture	71.8	0.0	71.8
Total	Lumens	8524.4	0.0	8524.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	94.0	1.1
20°-30°	365.2	4.3
30°-40°	903.4	10.6
40°-50°	1699.3	19.9
50°-60°	2254.3	26.4
60°-70°	2029.6	23.8
70°-80°	1036.4	12.2
80°-90°	135.8	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°	8524.4	100.0
0°-180°	8524.4	100.0



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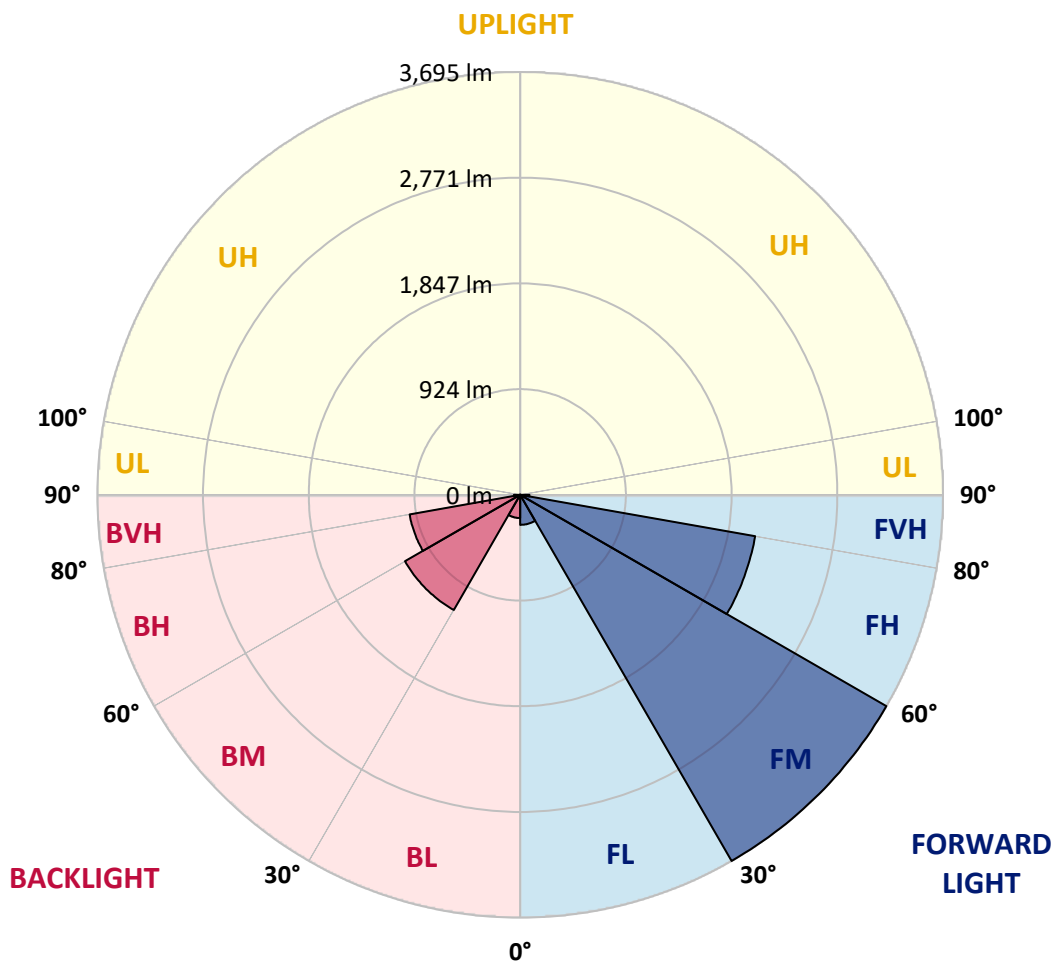
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.4	3.1			
FM	(30°-60°)	3694.9	43.3			
FH	(60°-80°)	2084.9	24.5			G2/5000
FVH	(80°-90°)	81.2	1.0			G1/100
BL	(0°-30°)	203.2	2.4	B1/500		
BM	(30°-60°)	1162.0	13.6	B2/2500		
BH	(60°-80°)	981.0	11.5	B2/1000		G2/1000
BVH	(80°-90°)	54.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	3.9	2.9	3.9	4.8	4.8	3.9	2.9	1.0	1.0	0.0	0.0
5°	181.8	178.0	123.8	48.4	25.1	13.5	6.8	2.9	1.9	1.0	1.0
7.5°	189.6	189.6	189.6	191.5	187.6	181.8	30.9	6.8	5.8	1.9	1.0
10°	193.4	192.6	190.5	192.6	190.5	190.5	186.7	24.1	22.3	7.7	5.8
12.5°	363.7	361.7	350.0	226.2	198.3	198.3	199.3	162.5	163.5	52.2	134.4
15°	380.1	379.1	374.3	376.2	364.6	217.7	305.6	391.7	395.5	274.7	310.6
17.5°	422.7	415.8	400.4	395.5	390.7	445.9	427.5	426.5	426.5	320.1	337.5
20°	653.8	645.0	636.4	514.5	429.4	567.7	525.2	461.3	465.2	545.5	578.4
22.5°	751.4	744.7	731.2	703.1	733.1	612.2	642.2	672.2	676.1	712.8	657.6
25°	1023.2	1029.1	957.5	820.2	884.0	762.1	823.0	741.9	762.1	774.6	813.4
27.5°	1324.0	1303.8	1281.5	1166.5	1005.8	1071.7	907.2	970.1	1045.5	1056.1	990.3
30°	1685.8	1657.7	1480.7	1468.1	1287.3	1206.1	1173.2	1190.6	1170.2	1109.3	1110.3
32.5°	2126.8	2110.4	2033.0	1795.0	1628.7	1383.0	1428.4	1304.7	1316.3	1442.0	1463.3
35°	2740.0	2712.0	2342.5	2214.8	1885.0	1774.8	1597.8	1649.0	1662.6	1638.4	1610.4
37.5°	3443.1	3417.9	3127.9	2608.4	2278.6	2025.2	1972.0	1881.1	1845.4	1850.2	1859.8
40°	3858.1	3840.6	3584.4	3151.0	2677.1	2410.2	2237.1	2112.3	2056.1	2126.8	2106.5
42.5°	4154.9	4129.8	3982.8	3560.1	3220.6	2954.7	2557.2	2392.8	2301.9	2453.8	2385.0
45°	4332.9	4295.2	4222.7	3838.8	3665.5	3571.8	2987.5	2719.7	2651.9	2766.1	2715.8
47.5°	4278.7	4216.9	4262.3	4035.1	4027.3	4117.2	3490.5	3096.9	3095.0	3135.5	3097.8
50°	3943.1	3898.7	4034.1	4059.2	4251.8	4549.5	4103.7	3521.4	3544.7	3529.2	3485.7
52.5°	3322.2	3331.9	3546.5	3753.6	4232.3	4806.9	4711.0	4021.5	4085.3	3915.1	3843.5
55°	2679.0	2712.0	2943.1	3201.3	3925.6	4868.7	5239.2	4573.7	4680.1	4290.4	4180.2
57.5°	2033.0	2077.4	2353.1	2546.5	3314.5	4655.0	5552.5	5093.1	5248.9	4648.2	4493.5
60°	1294.0	1321.2	1660.6	1985.6	2472.1	3931.5	5626.0	5622.2	5795.2	5011.8	4772.0
62.5°	837.6	853.1	997.1	1431.4	1718.6	2744.8	5386.2	6047.7	6224.7	5365.8	5010.8
64°	641.3	654.8	746.7	1104.5	1363.7	1995.3	4950.0	6193.8	6361.1	5500.3	5099.9
65°	557.1	565.8	633.4	900.4	1160.6	1564.9	4520.5	6197.6	6358.2	5539.0	5115.3
67.5°	463.3	466.2	491.3	569.7	820.2	872.4	2853.2	5737.2	5888.1	5455.8	4992.5
70°	419.8	425.6	458.5	464.3	633.4	603.5	1062.9	4720.8	4842.6	5232.4	4719.8
72.5°	361.7	368.5	411.1	445.9	490.3	478.8	537.8	3315.5	3445.1	4530.2	4409.2
75°	295.0	301.8	342.4	393.7	411.1	376.2	422.7	1703.2	1920.8	3348.4	3946.0
77.5°	234.1	240.8	272.7	309.5	370.4	288.2	337.5	652.9	780.5	2080.4	2935.4
80°	166.4	170.2	204.1	234.1	279.4	249.5	245.7	356.8	375.3	1033.9	1477.8
82.5°	102.4	105.4	136.3	156.7	186.7	249.5	176.0	245.7	251.6	434.3	452.7
85°	57.1	59.0	82.2	88.9	103.5	126.7	118.0	134.4	138.3	193.4	114.1
87.5°	6.8	8.7	19.3	21.3	19.3	21.3	21.3	19.3	20.3	17.4	9.8
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	1.0	1.0	1.0	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
5°	1.0	1.0	1.9	1.9	2.9	2.9	3.9	5.8	5.8	5.8	6.8
7.5°	1.0	1.0	1.9	2.9	3.9	9.8	48.4	167.2	188.6	195.3	195.3
10°	5.8	5.8	5.8	6.8	19.3	188.6	211.9	218.6	221.5	221.5	223.4
12.5°	147.9	147.9	79.3	30.9	177.0	220.4	225.4	230.2	233.0	236.0	239.9
15°	312.4	313.3	304.7	298.9	315.3	237.9	240.8	387.9	404.3	411.1	412.0
17.5°	339.5	337.5	339.5	432.3	455.5	355.9	397.4	424.6	427.5	428.4	428.4
20°	609.3	606.4	481.7	457.5	467.2	591.0	428.4	429.4	481.7	559.0	583.2
22.5°	653.8	648.0	613.2	668.3	613.2	603.5	544.5	562.9	580.2	578.4	577.4
25°	824.1	807.5	676.1	690.5	776.7	611.2	653.8	543.6	553.2	556.1	557.1
27.5°	1013.6	994.3	950.8	812.5	792.1	764.0	612.2	567.7	630.7	632.5	628.7
30°	1083.2	1057.1	994.3	1016.5	847.2	720.6	587.0	600.6	568.7	567.7	568.7
32.5°	1472.0	1424.6	1302.8	1101.6	894.7	651.8	578.4	535.8	571.7	581.3	581.3
35°	1610.4	1548.4	1443.0	1382.1	857.9	632.5	506.8	517.5	519.4	517.5	518.4
37.5°	1792.2	1710.9	1615.2	1408.3	884.0	550.3	483.6	479.7	517.5	524.2	527.0
40°	2004.0	1926.6	1837.6	1429.4	793.1	505.9	463.3	479.7	490.3	492.3	494.2
42.5°	2272.8	2165.5	2046.5	1425.7	675.1	485.5	459.4	459.4	472.0	468.0	468.0
45°	2579.4	2442.1	2242.9	1388.9	559.0	467.2	449.7	442.9	448.7	441.1	441.1
47.5°	2923.8	2772.9	2389.8	1331.8	492.3	450.7	441.1	419.8	433.3	431.3	431.3
50°	3288.3	3130.8	2527.1	1203.2	450.7	436.2	418.8	414.0	431.3	427.5	426.5
52.5°	3638.5	3502.1	2631.6	1028.1	414.9	422.7	411.1	409.0	424.6	420.7	419.8
55°	3974.1	3894.8	2762.2	880.1	383.0	398.5	408.2	408.2	417.8	414.0	414.0
57.5°	4301.0	4316.5	2917.0	778.6	358.8	379.1	404.3	403.2	409.0	406.2	407.2
60°	4633.6	4734.3	3071.8	682.9	339.5	356.8	396.5	394.7	397.4	396.5	397.4
62.5°	4949.0	5114.4	3259.3	560.0	318.2	339.5	383.9	385.9	384.9	387.9	387.9
64°	5110.5	5279.7	3352.2	488.4	305.6	328.9	374.3	377.2	376.2	382.1	381.1
65°	5173.4	5340.7	3385.1	445.9	297.8	322.1	367.5	371.4	370.4	377.2	374.3
67.5°	5156.0	5269.1	3345.4	367.5	277.6	303.7	349.2	355.9	353.0	362.7	355.9
70°	4973.2	4879.4	3031.1	320.1	261.1	283.4	325.9	334.7	329.9	339.5	327.9
72.5°	4630.9	4211.1	2358.9	277.6	242.8	263.1	299.8	308.5	304.7	308.5	296.0
75°	3872.5	3247.7	1380.2	240.8	218.6	235.0	268.9	277.6	273.7	265.0	260.1
77.5°	2692.5	2053.3	545.5	210.9	196.3	206.0	229.2	237.0	231.2	214.7	211.9
80°	1284.5	915.9	262.1	182.8	170.2	176.0	187.6	190.5	189.6	173.1	165.4
82.5°	393.7	299.8	180.9	147.1	138.3	136.3	147.9	144.1	142.1	130.6	102.4
85°	88.9	88.1	101.5	90.9	87.1	78.3	88.9	86.1	84.1	62.9	54.2
87.5°	2.9	5.8	4.8	12.6	13.5	10.6	17.4	18.3	13.5	5.8	1.0
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)