

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: P253993

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253993
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-AF24-90-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1180mA 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: 8903.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

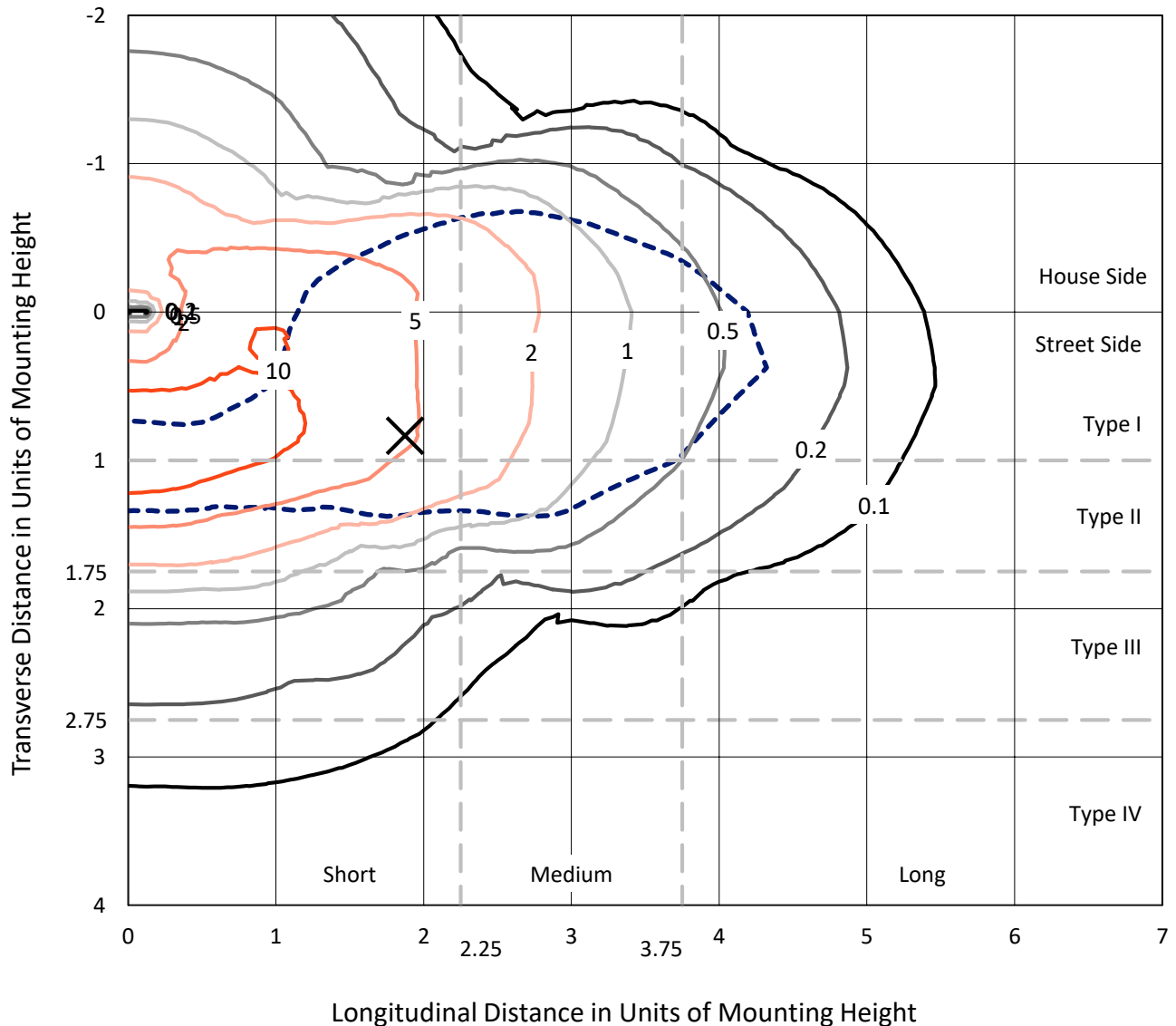
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

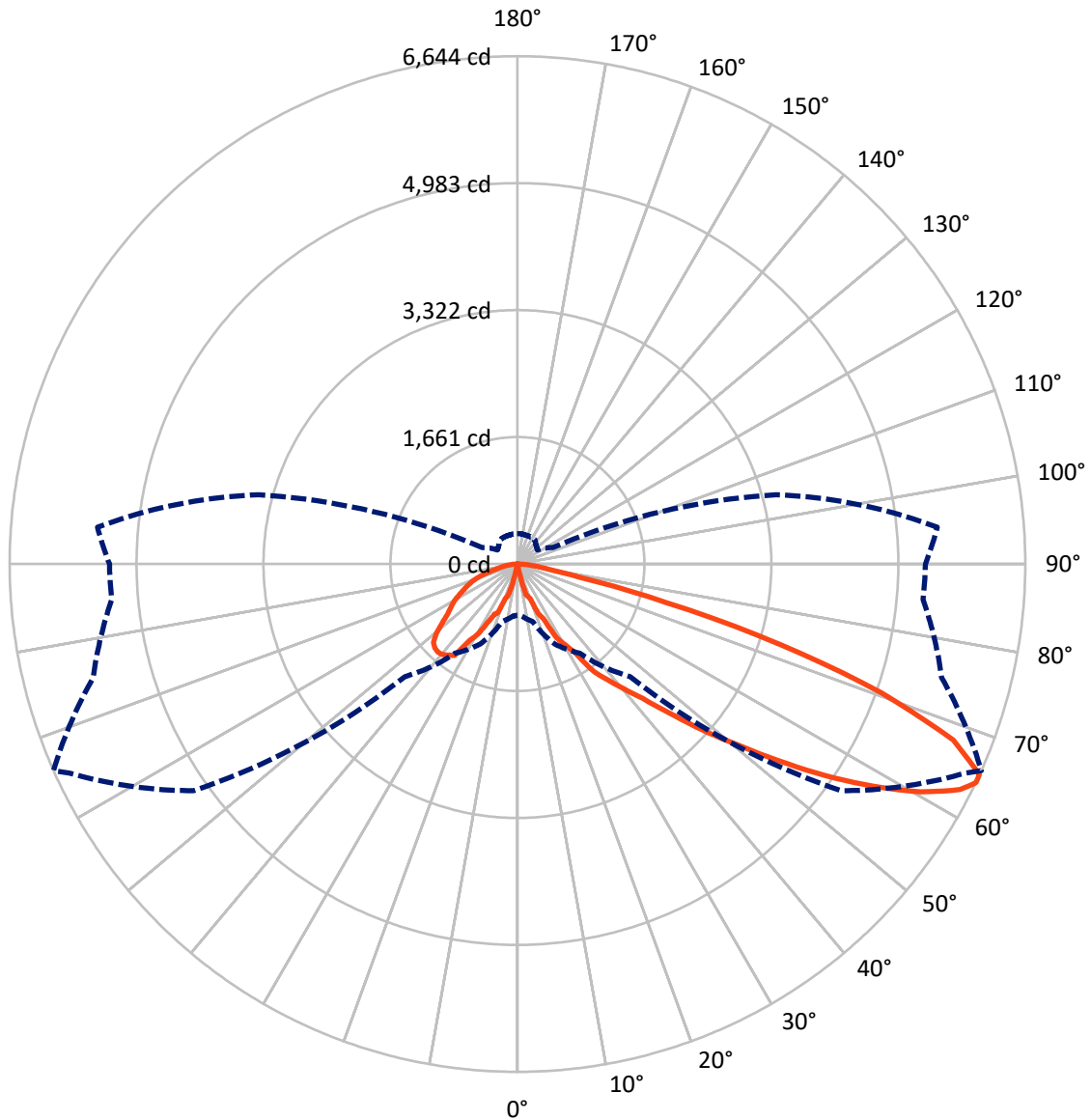


Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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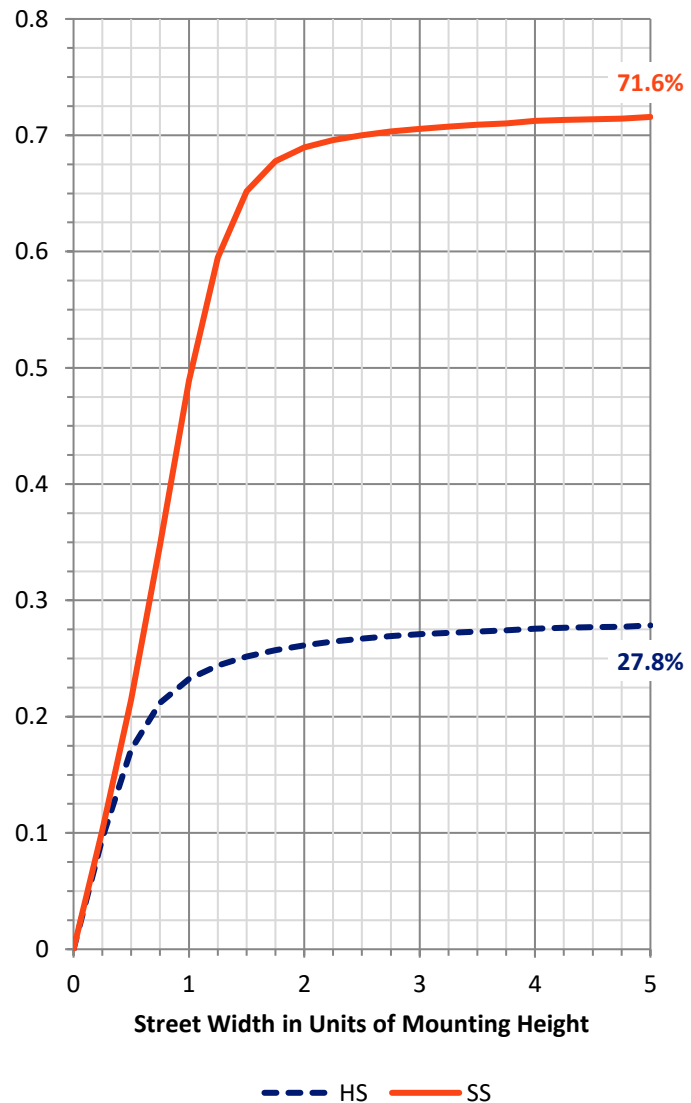
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2507.7	0.0	2507.7
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	6396.0	0.0	6396.0
	% Fixture	71.8	0.0	71.8
Total	Lumens	8903.8	0.0	8903.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	98.2	1.1
20°-30°	381.5	4.3
30°-40°	943.6	10.6
40°-50°	1774.9	19.9
50°-60°	2354.6	26.4
60°-70°	2119.9	23.8
70°-80°	1082.5	12.2
80°-90°	141.9	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°	8903.8	100.0
0°-180°	8903.8	100.0



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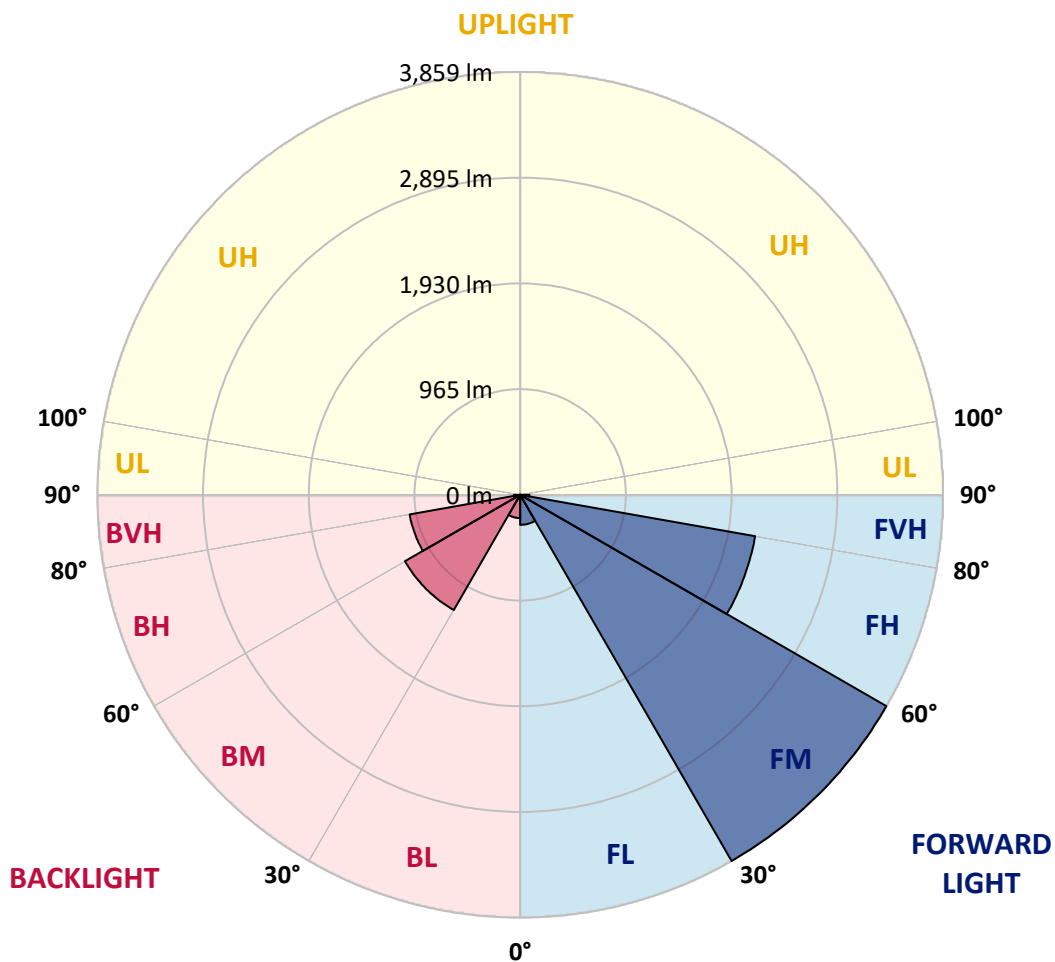
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.1	3.1			
FM	(30°-60°)	3859.4	43.3			
FH	(60°-80°)	2177.7	24.5			G2/5000
FVH	(80°-90°)	84.8	1.0			G1/100
BL	(0°-30°)	212.3	2.4	B1/500		
BM	(30°-60°)	1213.7	13.6	B2/2500		
BH	(60°-80°)	1024.7	11.5	B3/2500		G3/2500
BVH	(80°-90°)	57.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

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°	4.1	3.1	4.1	5.0	5.0	4.1	3.1	1.0	1.0	0.0	0.0
5°	190.0	185.9	129.3	50.5	26.3	14.1	7.1	3.1	2.0	1.0	1.0
7.5°	198.0	198.0	198.0	200.0	196.0	190.0	32.3	7.1	6.0	2.0	1.0
10°	202.0	201.0	199.0	201.0	199.0	199.0	195.0	25.3	23.2	8.1	6.0
12.5°	379.8	377.8	365.7	236.4	207.0	207.0	208.1	169.7	170.7	54.5	140.5
15°	397.0	396.0	391.0	393.0	380.8	227.3	319.3	409.2	413.2	286.9	324.3
17.5°	441.5	434.3	418.2	413.2	408.2	465.7	446.5	445.5	445.5	334.4	352.6
20°	682.9	673.8	664.7	537.5	448.6	593.0	548.5	481.9	485.9	569.8	604.2
22.5°	784.9	777.9	763.7	734.4	765.8	639.4	670.7	702.1	706.1	744.5	686.9
25°	1068.8	1074.8	1000.1	856.6	923.3	796.1	859.7	774.8	796.1	809.2	849.6
27.5°	1382.9	1361.8	1338.5	1218.3	1050.6	1119.3	947.6	1013.2	1092.0	1103.2	1034.4
30°	1760.8	1731.5	1546.6	1533.5	1344.6	1259.8	1225.4	1243.6	1222.3	1158.7	1159.7
32.5°	2221.4	2204.3	2123.4	1875.0	1701.2	1444.6	1492.1	1362.8	1374.8	1506.2	1528.5
35°	2861.9	2832.7	2446.7	2313.4	1968.9	1853.7	1668.8	1722.4	1736.6	1711.3	1682.0
37.5°	3596.4	3570.1	3267.0	2724.5	2380.1	2115.4	2059.8	1964.9	1927.4	1932.6	1942.6
40°	4029.7	4011.5	3743.8	3291.2	2796.2	2517.5	2336.6	2206.3	2147.7	2221.4	2200.3
42.5°	4339.9	4313.6	4160.0	3718.6	3364.0	3086.1	2671.0	2499.3	2404.3	2562.9	2491.2
45°	4525.7	4486.4	4410.6	4009.6	3828.7	3730.7	3120.5	2840.7	2769.9	2889.2	2836.6
47.5°	4469.2	4404.5	4452.0	4214.6	4206.5	4300.5	3645.8	3234.7	3232.6	3275.1	3235.7
50°	4118.6	4072.2	4213.5	4239.8	4440.8	4752.0	4286.4	3678.2	3702.5	3686.3	3640.8
52.5°	3470.1	3480.2	3704.4	3920.7	4420.7	5020.7	4920.7	4200.4	4267.1	4089.3	4014.6
55°	2798.3	2832.7	3074.1	3343.8	4100.4	5085.4	5472.3	4777.3	4888.4	4481.2	4366.2
57.5°	2123.4	2169.9	2457.8	2659.9	3462.0	4862.2	5799.6	5319.8	5482.4	4855.0	4693.4
60°	1351.6	1380.0	1734.5	2073.9	2582.1	4106.5	5876.3	5872.4	6053.2	5235.0	4984.3
62.5°	874.8	891.0	1041.6	1495.1	1795.2	2867.0	5625.8	6316.8	6501.7	5604.6	5233.9
64°	669.7	683.9	779.9	1153.7	1424.4	2084.1	5170.3	6469.3	6644.2	5745.1	5326.8
65°	581.9	591.0	661.6	940.5	1212.3	1634.5	4721.7	6473.4	6641.1	5785.5	5343.0
67.5°	483.9	486.9	513.2	595.1	856.6	911.2	2980.2	5992.5	6150.2	5698.6	5214.7
70°	438.4	444.5	478.8	484.9	661.6	630.3	1110.2	4930.8	5058.1	5465.2	4929.8
72.5°	377.8	384.9	429.3	465.7	512.2	500.0	561.7	3463.0	3598.3	4731.9	4605.5
75°	308.1	315.2	357.6	411.1	429.3	393.0	441.5	1779.0	2006.3	3497.4	4121.7
77.5°	244.5	251.5	284.9	323.3	386.9	301.1	352.6	681.9	815.2	2173.0	3066.0
80°	173.8	177.8	213.2	244.5	292.0	260.6	256.6	372.8	392.0	1079.9	1543.6
82.5°	107.1	110.1	142.4	163.7	195.0	260.6	183.8	256.6	262.7	453.6	472.8
85°	59.6	61.6	85.8	93.0	108.1	132.4	123.3	140.5	144.4	202.0	119.2
87.5°	7.1	9.1	20.3	22.2	20.3	22.2	22.2	20.3	21.2	18.2	10.1
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°	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	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
5°	1.0	1.0	2.0	2.0	3.1	3.1	4.1	6.0	6.0	6.0	7.1
7.5°	1.0	1.0	2.0	3.1	4.1	10.1	50.5	174.7	197.0	204.1	204.1
10°	6.0	6.0	6.0	7.1	20.3	197.0	221.3	228.3	231.3	231.3	233.3
12.5°	154.6	154.6	82.9	32.3	184.8	230.4	235.4	240.4	243.5	246.5	250.5
15°	326.3	327.3	318.2	312.2	329.3	248.5	251.5	405.1	422.3	429.3	430.4
17.5°	354.6	352.6	354.6	451.5	475.8	371.7	415.2	443.4	446.5	447.5	447.5
20°	636.5	633.4	503.1	477.8	487.9	617.2	447.5	448.6	503.1	583.9	609.2
22.5°	682.9	676.9	640.5	698.1	640.5	630.3	568.8	588.0	606.1	604.2	603.1
25°	860.7	843.5	706.1	721.3	811.2	638.4	682.9	567.7	577.9	580.8	581.9
27.5°	1058.7	1038.5	993.1	848.5	827.4	798.1	639.4	593.0	658.7	660.7	656.6
30°	1131.5	1104.2	1038.5	1061.7	885.0	752.6	613.2	627.4	594.0	593.0	594.0
32.5°	1537.5	1488.1	1360.7	1150.6	934.5	680.9	604.2	559.7	597.0	607.1	607.1
35°	1682.0	1617.4	1507.2	1443.6	896.1	660.7	529.4	540.4	542.5	540.4	541.4
37.5°	1871.9	1787.1	1687.1	1470.9	923.3	574.8	505.1	501.0	540.4	547.5	550.6
40°	2093.2	2012.3	1919.4	1493.1	828.4	528.4	483.9	501.0	512.2	514.2	516.2
42.5°	2374.0	2261.8	2137.6	1489.0	705.1	507.1	479.9	479.9	493.0	489.0	489.0
45°	2694.2	2550.8	2342.7	1450.6	583.9	487.9	469.7	462.7	468.7	460.6	460.6
47.5°	3053.8	2896.3	2496.2	1391.0	514.2	470.8	460.6	438.4	452.6	450.5	450.5
50°	3434.8	3270.1	2639.7	1256.7	470.8	455.6	437.4	432.4	450.5	446.5	445.5
52.5°	3800.4	3658.0	2748.8	1073.9	433.4	441.5	429.3	427.3	443.4	439.5	438.4
55°	4150.9	4068.1	2885.1	919.3	400.1	416.2	426.3	426.3	436.4	432.4	432.4
57.5°	4492.4	4508.6	3046.8	813.2	374.8	396.0	422.3	421.3	427.3	424.3	425.3
60°	4839.9	4944.9	3208.4	713.2	354.6	372.8	414.2	412.1	415.2	414.2	415.2
62.5°	5169.3	5342.0	3404.4	584.9	332.4	354.6	401.1	403.0	402.0	405.1	405.1
64°	5338.0	5514.7	3501.4	510.1	319.3	343.5	391.0	393.9	393.0	399.1	398.0
65°	5403.6	5578.4	3535.7	465.7	311.2	336.4	383.9	387.9	386.9	393.9	391.0
67.5°	5385.4	5503.6	3494.3	383.9	289.9	317.2	364.7	371.7	368.8	378.8	371.7
70°	5194.5	5096.5	3166.0	334.4	272.7	296.0	340.4	349.5	344.5	354.6	342.5
72.5°	4836.9	4398.5	2463.9	289.9	253.6	274.8	313.1	322.2	318.2	322.2	309.1
75°	4044.8	3392.3	1441.5	251.5	228.3	245.5	280.8	289.9	285.9	276.8	271.7
77.5°	2812.4	2144.7	569.8	220.2	205.1	215.1	239.4	247.5	241.4	224.2	221.3
80°	1341.6	956.7	273.7	190.9	177.8	183.8	196.0	199.0	198.0	180.9	172.8
82.5°	411.1	313.1	188.9	153.5	144.4	142.4	154.6	150.5	148.5	136.4	107.1
85°	93.0	92.0	106.1	94.9	90.9	81.8	93.0	89.9	87.9	65.7	56.6
87.5°	3.1	6.0	5.0	13.1	14.1	11.2	18.2	19.2	14.1	6.0	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)