

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: P1210726

Luminaire Tested: **ARCH3-50-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6419 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

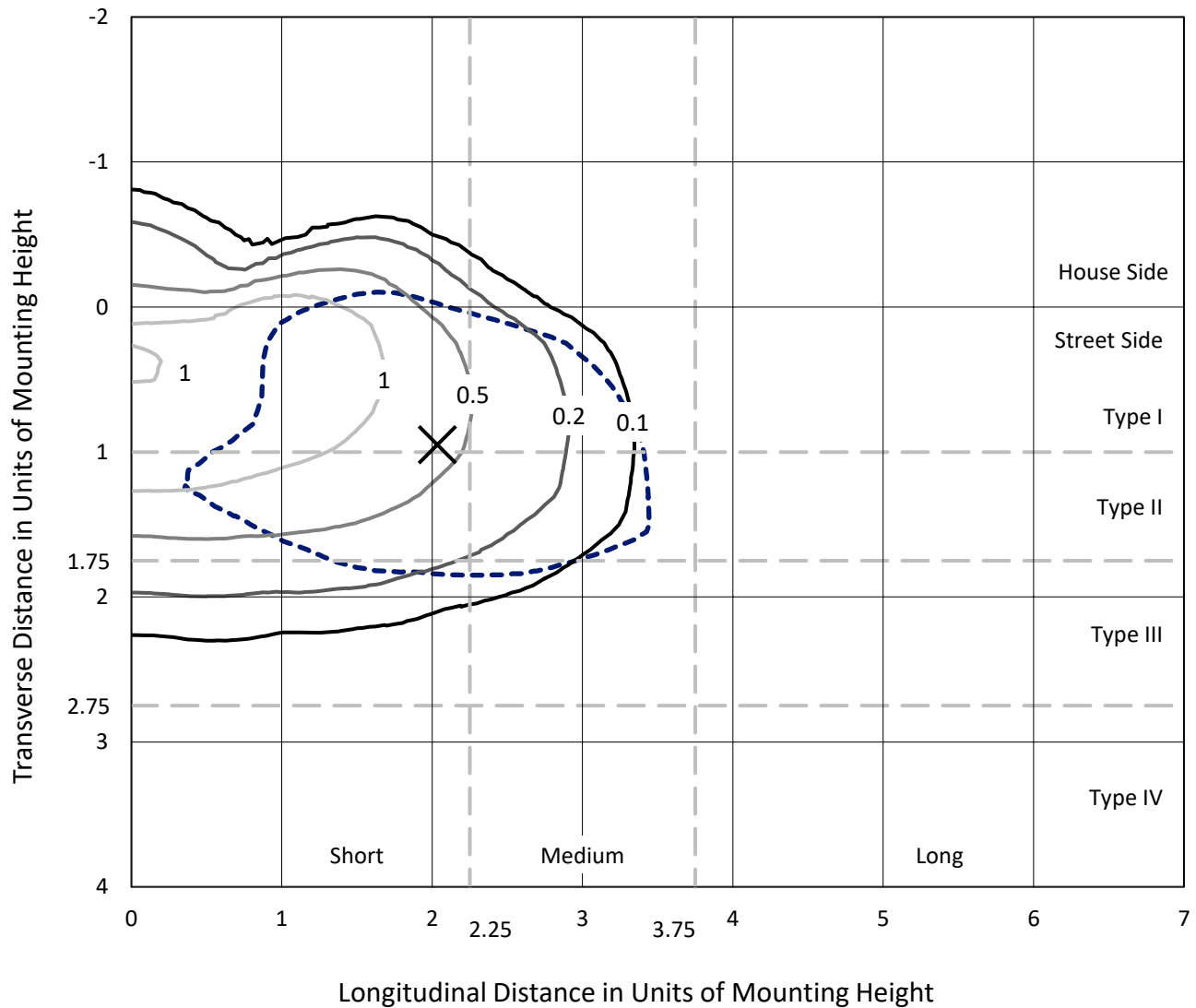
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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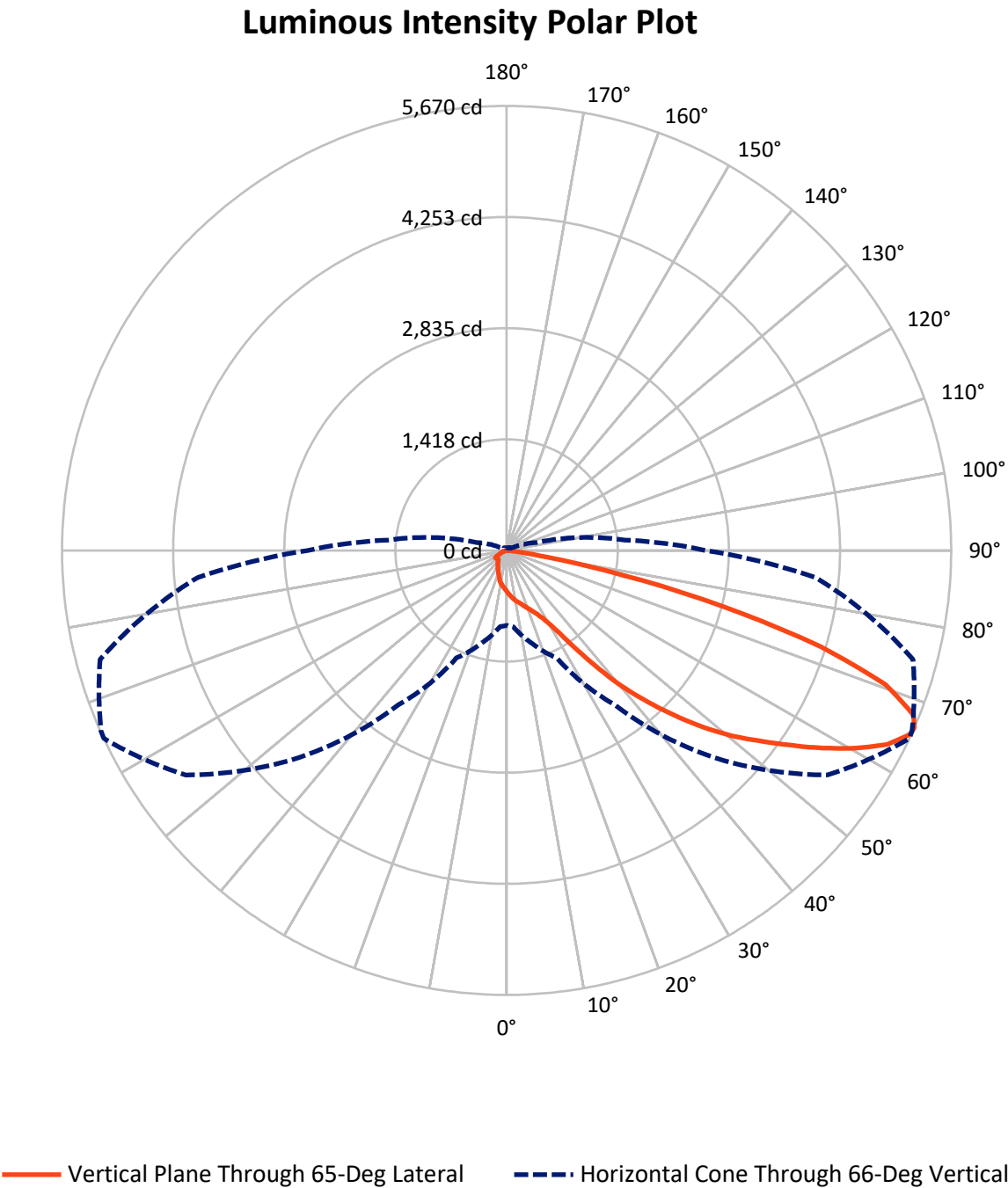
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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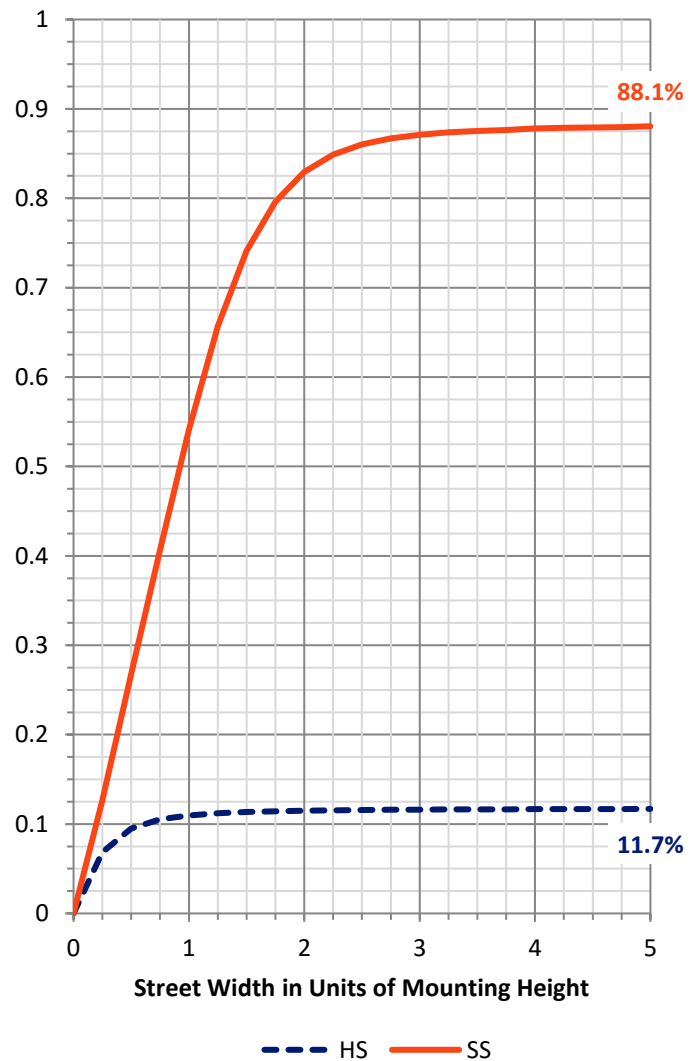
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.6	0.0	757.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5661.4	0.0	5661.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	6419.0	0.0	6419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	0.8
10°-20°	146.8	2.3
20°-30°	268.6	4.2
30°-40°	545.8	8.5
40°-50°	1152.7	18.0
50°-60°	1772.0	27.6
60°-70°	1783.7	27.8
70°-80°	666.5	10.4
80°-90°	33.3	0.5
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°	6419.0	100.0
0°-180°	6419.0	100.0

Coefficient of Utilization



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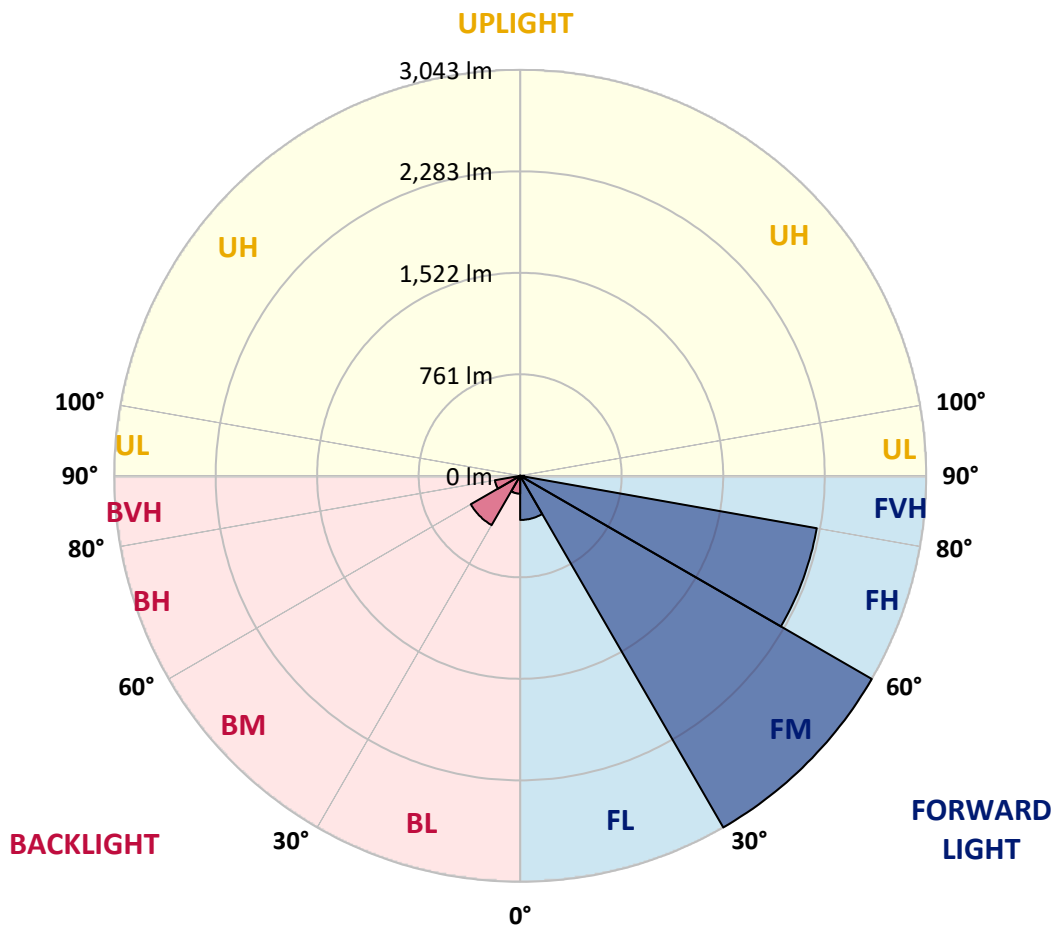
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.9	5.2			
FM	(30°-60°)	3043.4	47.4			
FH	(60°-80°)	2257.7	35.2			G2/5000
FVH	(80°-90°)	29.4	0.5			G1/100
BL	(0°-30°)	134.1	2.1	B1/500		
BM	(30°-60°)	427.1	6.7	B1/1000		
BH	(60°-80°)	192.5	3.0	B1/500		G1/500
BVH	(80°-90°)	3.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
2.5°	596.3	597.5	595.2	590.5	585.9	580.0	570.7	555.6	553.3	542.8	531.1
5°	637.1	639.4	635.9	634.8	632.5	624.3	611.5	589.4	587.0	566.1	539.3
7.5°	651.1	654.6	652.3	652.3	652.3	648.8	642.9	623.1	619.6	592.9	552.1
10°	661.6	663.9	662.7	667.4	670.9	668.6	665.1	653.4	649.9	623.1	569.6
12.5°	677.9	679.0	680.2	682.5	688.4	690.7	689.5	679.0	676.7	658.1	591.7
15°	693.0	693.0	694.2	704.7	712.8	717.5	718.6	710.5	708.2	693.0	619.6
17.5°	707.0	708.2	711.7	723.3	737.3	746.6	752.4	748.9	745.4	733.8	652.3
20°	728.0	730.3	733.8	750.1	764.1	779.2	790.9	789.7	788.5	780.4	690.7
22.5°	764.1	766.4	772.2	787.4	801.3	820.0	839.8	838.6	835.1	829.3	736.1
25°	818.8	818.8	822.3	835.1	852.6	874.7	893.4	896.8	893.4	889.9	793.2
27.5°	887.5	888.7	888.7	902.7	919.0	946.9	970.2	973.7	973.7	970.2	870.1
30°	983.0	979.5	977.2	988.9	1006.3	1047.1	1087.9	1094.9	1091.4	1097.2	978.4
32.5°	1147.3	1141.4	1121.6	1124.0	1134.5	1190.4	1259.1	1283.5	1282.4	1292.9	1153.1
35°	1374.4	1362.7	1333.6	1309.2	1308.0	1368.6	1473.4	1565.4	1564.2	1600.4	1418.7
37.5°	1630.6	1645.8	1591.0	1549.1	1536.3	1584.0	1719.2	1918.3	1928.8	1991.7	1766.9
40°	1973.1	1982.4	1912.5	1853.1	1792.5	1810.0	1988.2	2298.0	2316.7	2386.6	2115.2
42.5°	2271.2	2280.6	2239.8	2167.6	2090.7	2058.1	2259.6	2642.8	2657.9	2754.6	2473.9
45°	2473.9	2480.9	2494.9	2501.9	2414.5	2346.9	2591.5	2996.9	3015.5	3127.3	2824.5
47.5°	2632.3	2638.1	2666.1	2736.0	2718.5	2664.9	2929.3	3364.9	3369.6	3494.2	3165.8
50°	2705.7	2719.7	2788.4	2895.5	2972.4	2987.6	3296.2	3713.2	3726.0	3844.8	3488.4
52.5°	2624.2	2628.8	2802.4	3003.9	3158.8	3312.5	3664.3	4035.8	4073.1	4161.6	3778.4
55°	2349.3	2383.1	2646.3	3000.4	3305.5	3621.2	4058.0	4384.1	4417.9	4473.8	4033.5
57.5°	2030.1	2067.4	2387.7	2850.1	3368.4	3906.5	4422.5	4754.5	4777.8	4792.9	4267.6
60°	1754.1	1789.0	2118.7	2562.4	3305.5	4108.0	4761.5	5122.5	5142.3	5101.6	4385.2
62.5°	1415.2	1450.1	1782.1	2181.6	3058.6	4148.8	5013.0	5449.8	5458.0	5347.3	4313.0
65°	1066.9	1090.2	1367.4	1709.8	2626.5	3932.2	5070.1	5653.6	5645.5	5418.4	4096.4
66°	956.3	976.1	1220.6	1511.8	2401.7	3734.2	4993.2	5670.0	5661.8	5366.0	3954.3
67.5°	824.6	830.5	1032.0	1237.0	2009.2	3313.7	4759.1	5595.4	5602.4	5221.5	3694.6
70°	644.1	642.9	759.4	860.7	1372.1	2357.4	3969.4	5126.0	5159.8	4676.4	3150.6
72.5°	412.3	398.3	465.9	526.5	799.0	1368.6	2894.4	4177.9	4235.0	3673.6	2346.9
75°	245.8	231.8	248.1	263.2	383.2	658.1	1701.7	2843.1	2897.9	2355.1	1396.5
77.5°	184.0	178.2	179.4	166.6	170.1	246.9	776.9	1502.5	1542.1	964.4	530.0
80°	140.9	125.8	117.6	123.5	111.8	97.8	288.9	517.1	541.6	228.3	110.7
82.5°	94.3	81.5	75.7	82.7	71.0	54.7	69.9	100.2	97.8	61.7	43.1
85°	48.9	41.9	41.9	41.9	36.1	26.8	30.3	40.8	40.8	32.6	25.6
87.5°	14.0	12.8	15.1	14.0	10.5	10.5	11.6	14.0	14.0	12.8	11.6
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°	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
2.5°	521.8	517.1	504.3	495.0	485.7	477.5	468.2	465.9	461.2	462.4	460.1
5°	525.3	512.5	490.4	469.4	453.1	439.1	421.6	414.6	405.3	401.8	399.5
7.5°	530.0	511.3	478.7	449.6	421.6	393.7	365.7	349.4	338.9	334.3	330.8
10°	540.4	516.0	472.9	427.5	379.7	340.1	312.2	300.5	293.5	292.3	291.2
12.5°	554.4	523.0	467.1	399.5	336.6	299.3	281.9	278.4	277.2	277.2	276.0
15°	575.4	534.6	457.7	366.9	302.8	277.2	269.1	263.2	260.9	260.9	260.9
17.5°	596.3	548.6	443.8	333.1	279.5	263.2	255.1	251.6	249.3	250.4	249.3
20°	623.1	564.9	425.1	304.0	264.4	251.6	243.4	239.9	238.8	238.8	238.8
22.5°	653.4	583.5	401.8	281.9	251.6	239.9	231.8	228.3	226.0	227.1	227.1
25°	694.2	606.8	377.4	259.7	238.8	228.3	219.0	214.3	214.3	215.5	216.6
27.5°	746.6	634.8	352.9	245.8	227.1	216.6	206.2	201.5	202.7	205.0	205.0
30°	823.5	673.2	328.5	230.6	214.3	202.7	193.3	188.7	191.0	195.7	195.7
32.5°	933.0	736.1	307.5	213.1	195.7	182.9	173.5	170.1	175.9	185.2	185.2
35°	1128.6	851.4	294.7	195.7	175.9	160.7	149.1	145.6	153.7	165.4	165.4
37.5°	1390.7	1036.6	299.3	180.5	159.6	142.1	129.3	124.6	130.5	140.9	144.4
40°	1683.0	1260.2	340.1	167.7	144.4	127.0	114.1	109.5	113.0	117.6	118.8
42.5°	1975.4	1497.9	417.0	158.4	132.8	114.1	102.5	99.0	101.3	102.5	103.7
45°	2266.6	1733.1	513.6	152.6	122.3	103.7	92.0	92.0	93.2	93.2	93.2
47.5°	2542.6	1962.6	615.0	151.4	113.0	93.2	83.9	85.0	85.0	86.2	86.2
50°	2803.5	2167.6	717.5	154.9	104.8	83.9	76.9	76.9	76.9	78.0	76.9
52.5°	3021.3	2346.9	824.6	160.7	96.7	76.9	69.9	69.9	69.9	71.0	69.9
55°	3227.5	2510.0	934.1	168.9	89.7	71.0	64.1	61.7	61.7	62.9	61.7
57.5°	3395.2	2618.3	1037.8	170.1	83.9	65.2	59.4	55.9	55.9	55.9	55.9
60°	3402.2	2555.4	1068.1	149.1	76.9	59.4	53.6	48.9	50.1	50.1	50.1
62.5°	3179.7	2224.7	858.4	111.8	68.7	53.6	48.9	44.3	44.3	44.3	44.3
65°	2743.0	1730.8	503.2	88.5	59.4	47.8	43.1	39.6	39.6	39.6	38.4
66°	2538.0	1517.7	385.5	80.4	55.9	46.6	41.9	38.4	37.3	36.1	36.1
67.5°	2203.7	1199.7	241.1	71.0	51.2	43.1	38.4	34.9	33.8	32.6	32.6
70°	1659.8	761.7	117.6	54.7	44.3	37.3	33.8	30.3	29.1	28.0	26.8
72.5°	1164.7	446.1	61.7	41.9	36.1	32.6	29.1	25.6	24.5	23.3	23.3
75°	658.1	215.5	40.8	30.3	29.1	26.8	24.5	21.0	19.8	19.8	19.8
77.5°	249.3	74.5	28.0	22.1	23.3	21.0	17.5	17.5	16.3	17.5	16.3
80°	65.2	32.6	17.5	16.3	17.5	15.1	12.8	14.0	14.0	14.0	14.0
82.5°	34.9	18.6	10.5	11.6	10.5	10.5	8.2	9.3	10.5	9.3	10.5
85°	24.5	9.3	5.8	5.8	4.7	4.7	3.5	4.7	5.8	4.7	4.7
87.5°	12.8	3.5	3.5	3.5	3.5	2.3	1.2	0.0	1.2	1.2	1.2
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)