

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: P1211610

Luminaire Tested: **ARCH4-60-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211610
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: ARCH4-60-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7348 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

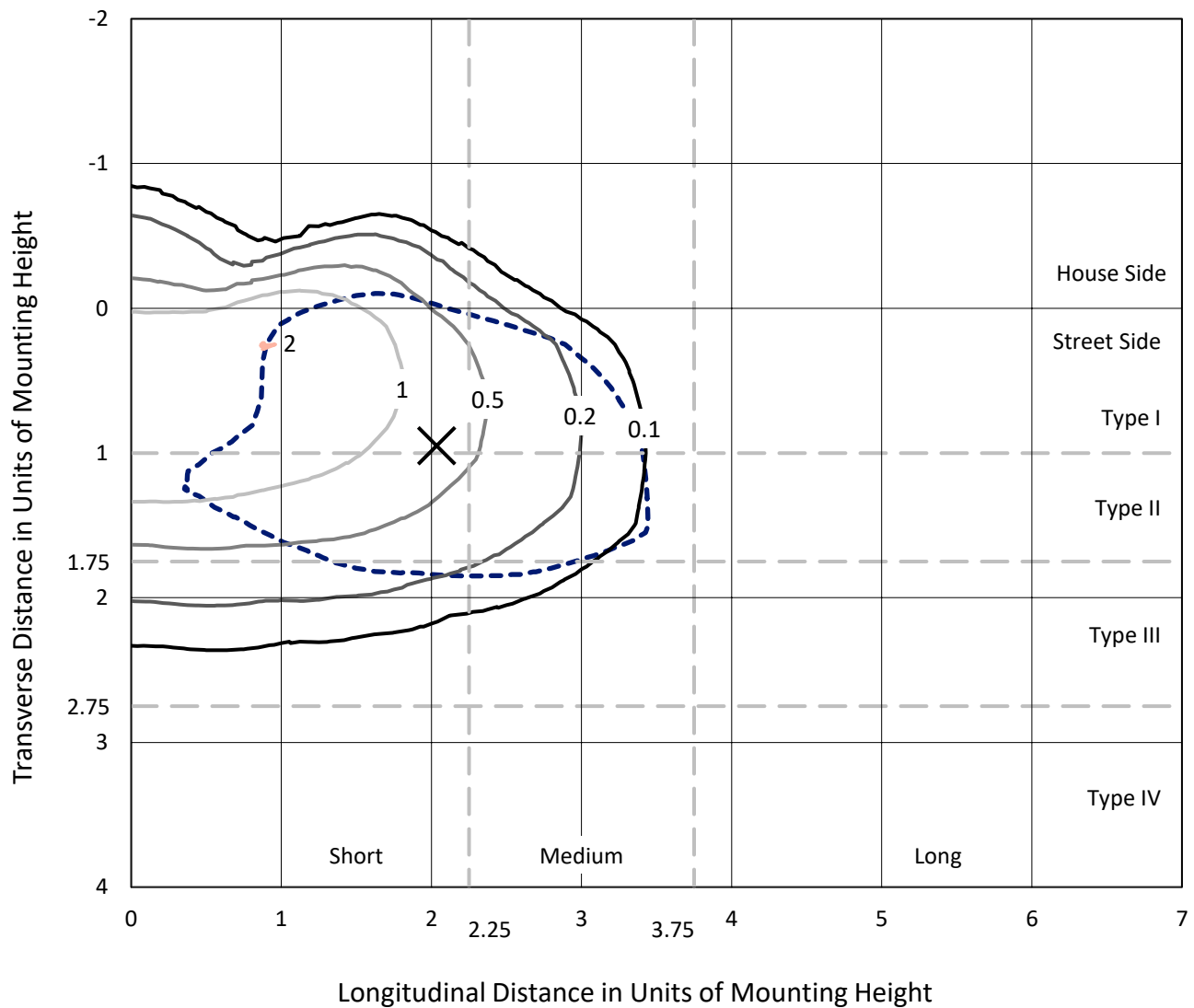
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

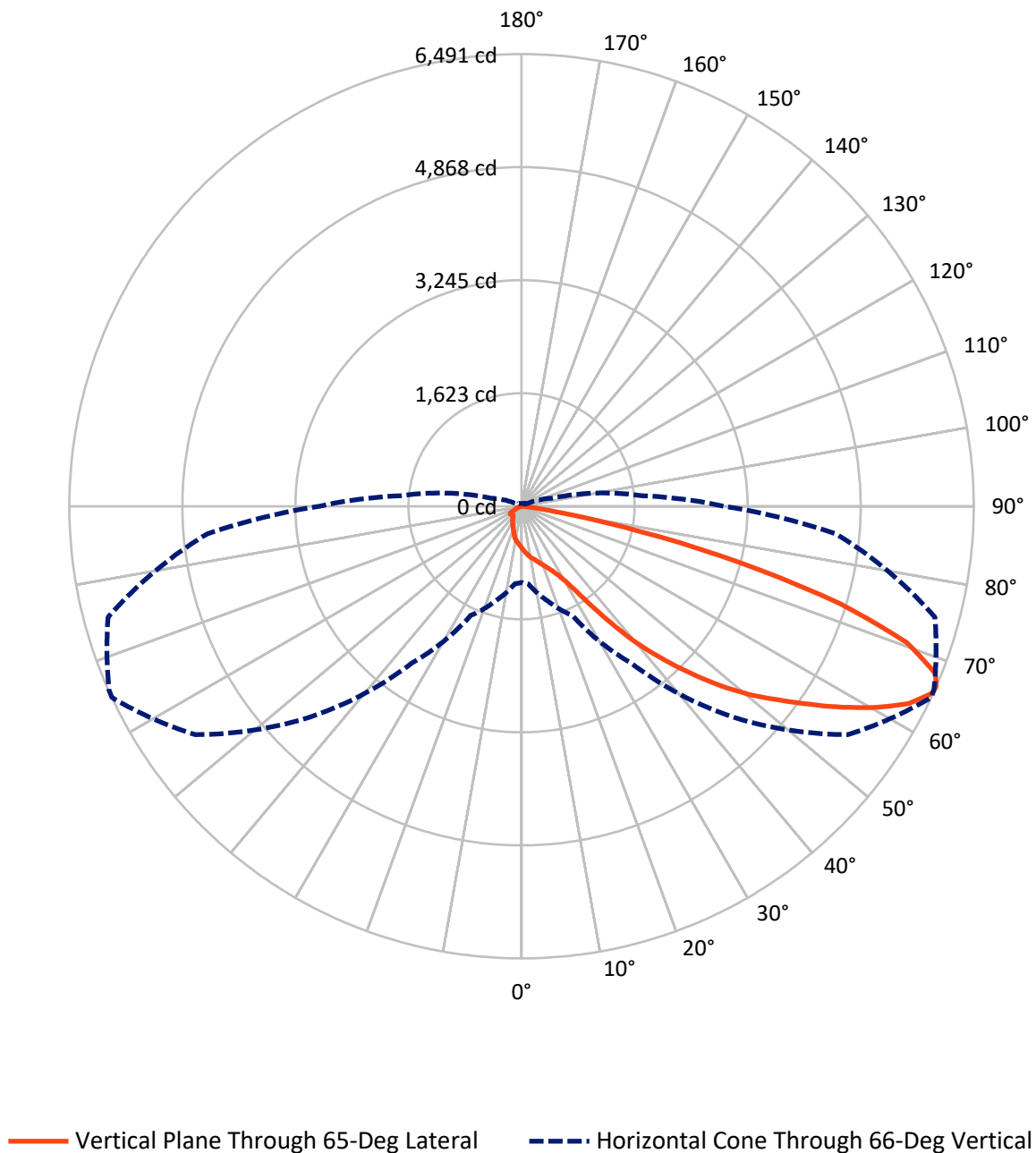
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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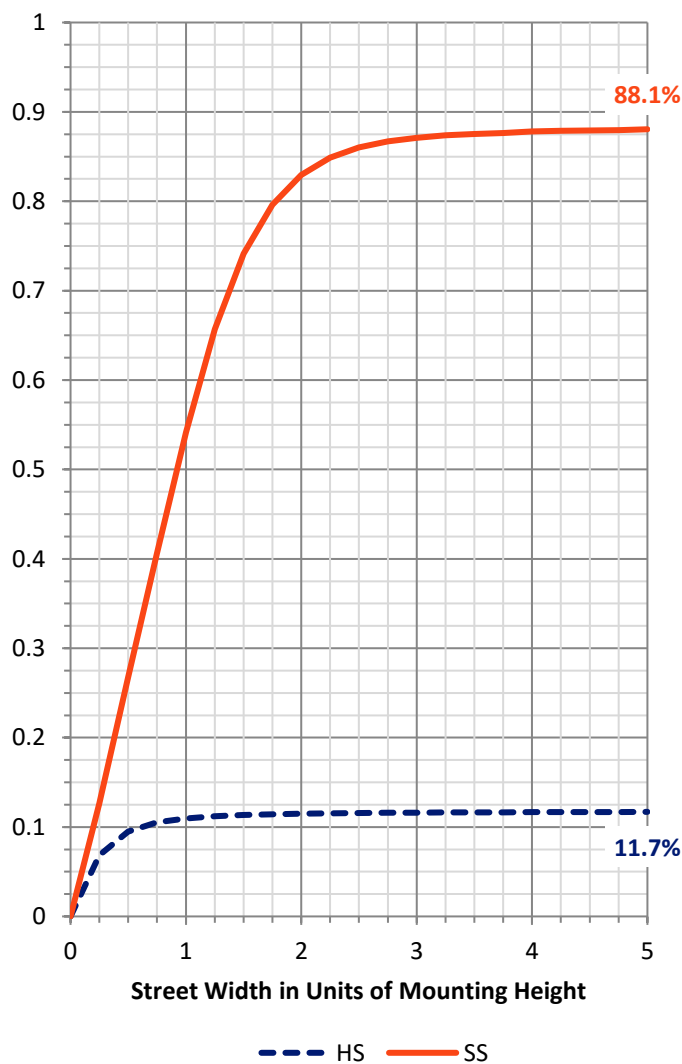
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.2	0.0	867.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6480.8	0.0	6480.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	7348.0	0.0	7348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	0.8
10°-20°	168.0	2.3
20°-30°	307.5	4.2
30°-40°	624.8	8.5
40°-50°	1319.5	18.0
50°-60°	2028.5	27.6
60°-70°	2041.8	27.8
70°-80°	762.9	10.4
80°-90°	38.1	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°	7348.0	100.0
0°-180°	7348.0	100.0

Coefficient of Utilization



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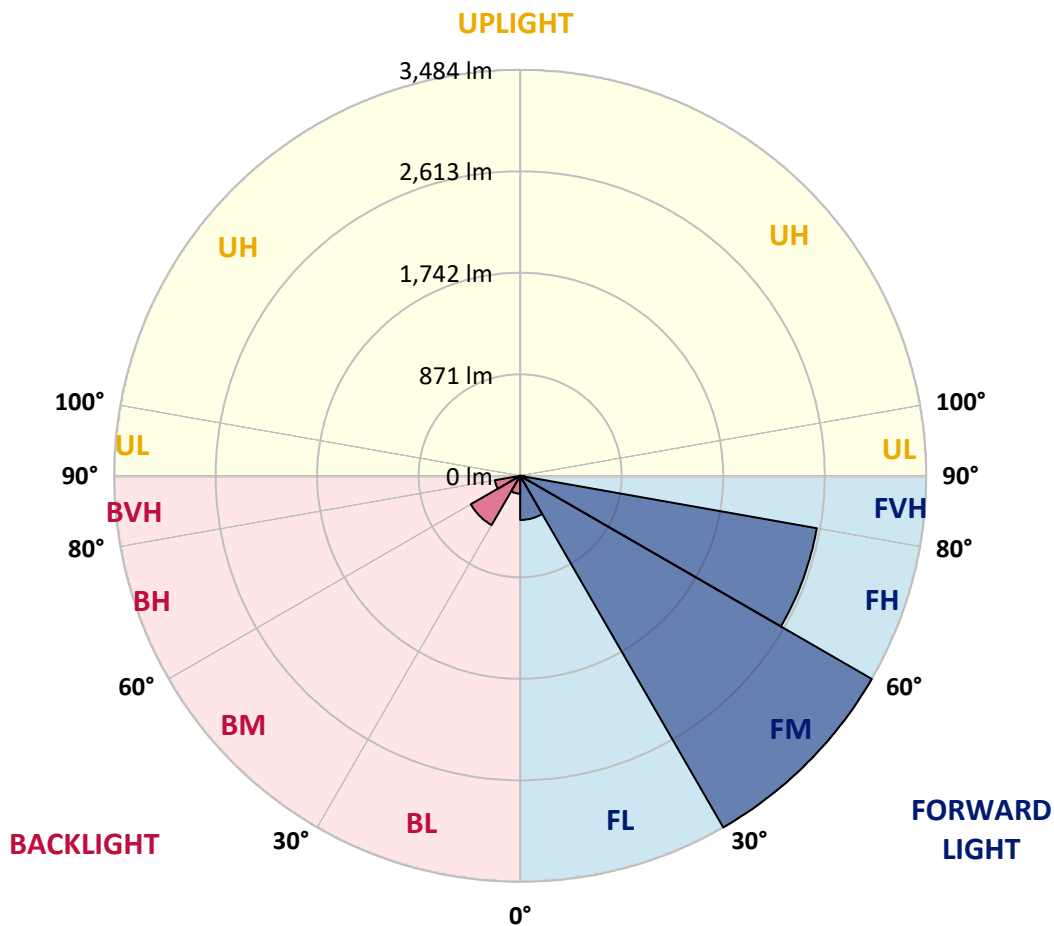
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.8	5.2			
FM	(30°-60°)	3483.9	47.4			
FH	(60°-80°)	2584.5	35.2			G2/5000
FVH	(80°-90°)	33.6	0.5			G1/100
BL	(0°-30°)	153.5	2.1	B1/500		
BM	(30°-60°)	488.9	6.7	B1/1000		
BH	(60°-80°)	220.3	3.0	B1/500		G1/500
BVH	(80°-90°)	4.5	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°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	682.7	684.0	681.3	676.0	670.7	664.0	653.3	636.0	633.3	621.3	608.0
5°	729.3	732.0	728.0	726.7	724.0	714.7	700.0	674.7	672.0	648.0	617.3
7.5°	745.3	749.3	746.7	746.7	746.7	742.7	736.0	713.3	709.3	678.7	632.0
10°	757.3	760.0	758.7	764.0	768.0	765.3	761.3	748.0	744.0	713.3	652.0
12.5°	776.0	777.3	778.7	781.3	788.0	790.7	789.3	777.3	774.7	753.3	677.3
15°	793.3	793.3	794.7	806.7	816.0	821.3	822.7	813.3	810.7	793.3	709.3
17.5°	809.3	810.7	814.7	828.0	844.0	854.7	861.3	857.3	853.3	840.0	746.7
20°	833.3	836.0	840.0	858.7	874.7	892.0	905.3	904.0	902.6	893.3	790.7
22.5°	874.7	877.3	884.0	901.3	917.3	938.6	961.3	960.0	956.0	949.3	842.7
25°	937.3	937.3	941.3	956.0	976.0	1001.3	1022.6	1026.6	1022.6	1018.6	908.0
27.5°	1016.0	1017.3	1017.3	1033.3	1052.0	1084.0	1110.6	1114.6	1114.6	1110.6	996.0
30°	1125.3	1121.3	1118.6	1132.0	1152.0	1198.6	1245.3	1253.3	1249.3	1256.0	1120.0
32.5°	1313.3	1306.6	1284.0	1286.6	1298.6	1362.6	1441.3	1469.3	1468.0	1480.0	1320.0
35°	1573.3	1560.0	1526.6	1498.6	1497.3	1566.6	1686.6	1792.0	1790.6	1832.0	1624.0
37.5°	1866.6	1884.0	1821.3	1773.3	1758.6	1813.3	1968.0	2196.0	2208.0	2280.0	2022.6
40°	2258.6	2269.3	2189.3	2121.3	2052.0	2072.0	2276.0	2630.6	2651.9	2731.9	2421.3
42.5°	2600.0	2610.6	2564.0	2481.3	2393.3	2356.0	2586.6	3025.3	3042.6	3153.3	2831.9
45°	2831.9	2839.9	2855.9	2863.9	2763.9	2686.6	2966.6	3430.6	3451.9	3579.9	3233.3
47.5°	3013.3	3019.9	3051.9	3131.9	3111.9	3050.6	3353.3	3851.9	3857.3	3999.9	3623.9
50°	3097.3	3113.3	3191.9	3314.6	3402.6	3419.9	3773.3	4250.6	4265.3	4401.2	3993.3
52.5°	3003.9	3009.3	3207.9	3438.6	3615.9	3791.9	4194.6	4619.9	4662.6	4763.9	4325.3
55°	2689.3	2727.9	3029.3	3434.6	3783.9	4145.3	4645.2	5018.6	5057.2	5121.2	4617.2
57.5°	2324.0	2366.6	2733.3	3262.6	3855.9	4471.9	5062.6	5442.6	5469.2	5486.6	4885.2
60°	2008.0	2048.0	2425.3	2933.3	3783.9	4702.6	5450.6	5863.9	5886.6	5839.9	5019.9
62.5°	1620.0	1660.0	2040.0	2497.3	3501.3	4749.2	5738.6	6238.5	6247.9	6121.2	4937.2
65°	1221.3	1248.0	1565.3	1957.3	3006.6	4501.2	5803.9	6471.9	6462.5	6202.5	4689.2
66°	1094.6	1117.3	1397.3	1730.6	2749.3	4274.6	5715.9	6490.5	6481.2	6142.5	4526.6
67.5°	944.0	950.6	1181.3	1416.0	2300.0	3793.3	5447.9	6405.2	6413.2	5977.2	4229.3
70°	737.3	736.0	869.3	985.3	1570.6	2698.6	4543.9	5867.9	5906.6	5353.2	3606.6
72.5°	472.0	456.0	533.3	602.7	914.6	1566.6	3313.3	4782.6	4847.9	4205.3	2686.6
75°	281.3	265.3	284.0	301.3	438.7	753.3	1948.0	3254.6	3317.3	2695.9	1598.6
77.5°	210.7	204.0	205.3	190.7	194.7	282.7	889.3	1720.0	1765.3	1104.0	606.7
80°	161.3	144.0	134.7	141.3	128.0	112.0	330.7	592.0	620.0	261.3	126.7
82.5°	108.0	93.3	86.7	94.7	81.3	62.7	80.0	114.7	112.0	70.7	49.3
85°	56.0	48.0	48.0	48.0	41.3	30.7	34.7	46.7	46.7	37.3	29.3
87.5°	16.0	14.7	17.3	16.0	12.0	12.0	13.3	16.0	16.0	14.7	13.3
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°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	597.3	592.0	577.3	566.7	556.0	546.7	536.0	533.3	528.0	529.3	526.7
5°	601.3	586.7	561.3	537.3	518.7	502.7	482.7	474.7	464.0	460.0	457.3
7.5°	606.7	585.3	548.0	514.7	482.7	450.7	418.7	400.0	388.0	382.7	378.7
10°	618.7	590.7	541.3	489.3	434.7	389.3	357.3	344.0	336.0	334.7	333.3
12.5°	634.7	598.7	534.7	457.3	385.3	342.7	322.7	318.7	317.3	317.3	316.0
15°	658.7	612.0	524.0	420.0	346.7	317.3	308.0	301.3	298.7	298.7	298.7
17.5°	682.7	628.0	508.0	381.3	320.0	301.3	292.0	288.0	285.3	286.7	285.3
20°	713.3	646.7	486.7	348.0	302.7	288.0	278.7	274.7	273.3	273.3	273.3
22.5°	748.0	668.0	460.0	322.7	288.0	274.7	265.3	261.3	258.7	260.0	260.0
25°	794.7	694.7	432.0	297.3	273.3	261.3	250.7	245.3	245.3	246.7	248.0
27.5°	854.7	726.7	404.0	281.3	260.0	248.0	236.0	230.7	232.0	234.7	234.7
30°	942.6	770.7	376.0	264.0	245.3	232.0	221.3	216.0	218.7	224.0	224.0
32.5°	1068.0	842.7	352.0	244.0	224.0	209.3	198.7	194.7	201.3	212.0	212.0
35°	1292.0	974.6	337.3	224.0	201.3	184.0	170.7	166.7	176.0	189.3	189.3
37.5°	1592.0	1186.6	342.7	206.7	182.7	162.7	148.0	142.7	149.3	161.3	165.3
40°	1926.6	1442.6	389.3	192.0	165.3	145.3	130.7	125.3	129.3	134.7	136.0
42.5°	2261.3	1714.6	477.3	181.3	152.0	130.7	117.3	113.3	116.0	117.3	118.7
45°	2594.6	1984.0	588.0	174.7	140.0	118.7	105.3	105.3	106.7	106.7	106.7
47.5°	2910.6	2246.6	704.0	173.3	129.3	106.7	96.0	97.3	97.3	98.7	98.7
50°	3209.3	2481.3	821.3	177.3	120.0	96.0	88.0	88.0	88.0	89.3	88.0
52.5°	3458.6	2686.6	944.0	184.0	110.7	88.0	80.0	80.0	80.0	81.3	80.0
55°	3694.6	2873.3	1069.3	193.3	102.7	81.3	73.3	70.7	70.7	72.0	70.7
57.5°	3886.6	2997.3	1188.0	194.7	96.0	74.7	68.0	64.0	64.0	64.0	64.0
60°	3894.6	2925.3	1222.6	170.7	88.0	68.0	61.3	56.0	57.3	57.3	57.3
62.5°	3639.9	2546.6	982.6	128.0	78.7	61.3	56.0	50.7	50.7	50.7	50.7
65°	3139.9	1981.3	576.0	101.3	68.0	54.7	49.3	45.3	45.3	45.3	44.0
66°	2905.3	1737.3	441.3	92.0	64.0	53.3	48.0	44.0	42.7	41.3	41.3
67.5°	2522.6	1373.3	276.0	81.3	58.7	49.3	44.0	40.0	38.7	37.3	37.3
70°	1900.0	872.0	134.7	62.7	50.7	42.7	38.7	34.7	33.3	32.0	30.7
72.5°	1333.3	510.7	70.7	48.0	41.3	37.3	33.3	29.3	28.0	26.7	26.7
75°	753.3	246.7	46.7	34.7	33.3	30.7	28.0	24.0	22.7	22.7	22.7
77.5°	285.3	85.3	32.0	25.3	26.7	24.0	20.0	20.0	18.7	20.0	18.7
80°	74.7	37.3	20.0	18.7	20.0	17.3	14.7	16.0	16.0	16.0	16.0
82.5°	40.0	21.3	12.0	13.3	12.0	12.0	9.3	10.7	12.0	10.7	12.0
85°	28.0	10.7	6.7	6.7	5.3	5.3	4.0	5.3	6.7	5.3	5.3
87.5°	14.7	4.0	4.0	4.0	4.0	2.7	1.3	0.0	1.3	1.3	1.3
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)