

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: P1211574

Luminaire Tested: **ARCH4-50-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211574
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: ARCH4-50-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA 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: 5617 lumens
Efficiency: N/A
Efficacy: 105.6 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): 53.2
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

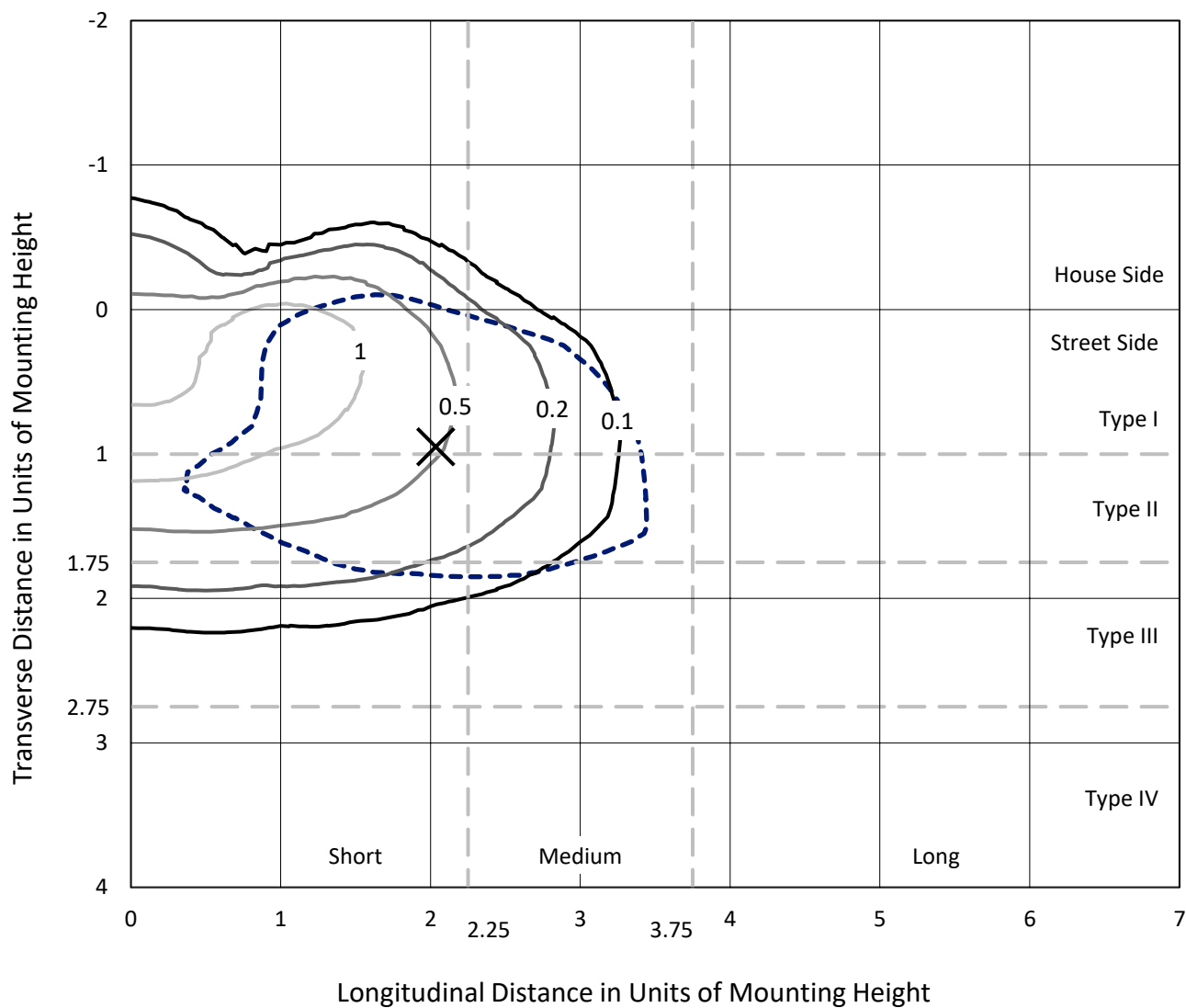


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

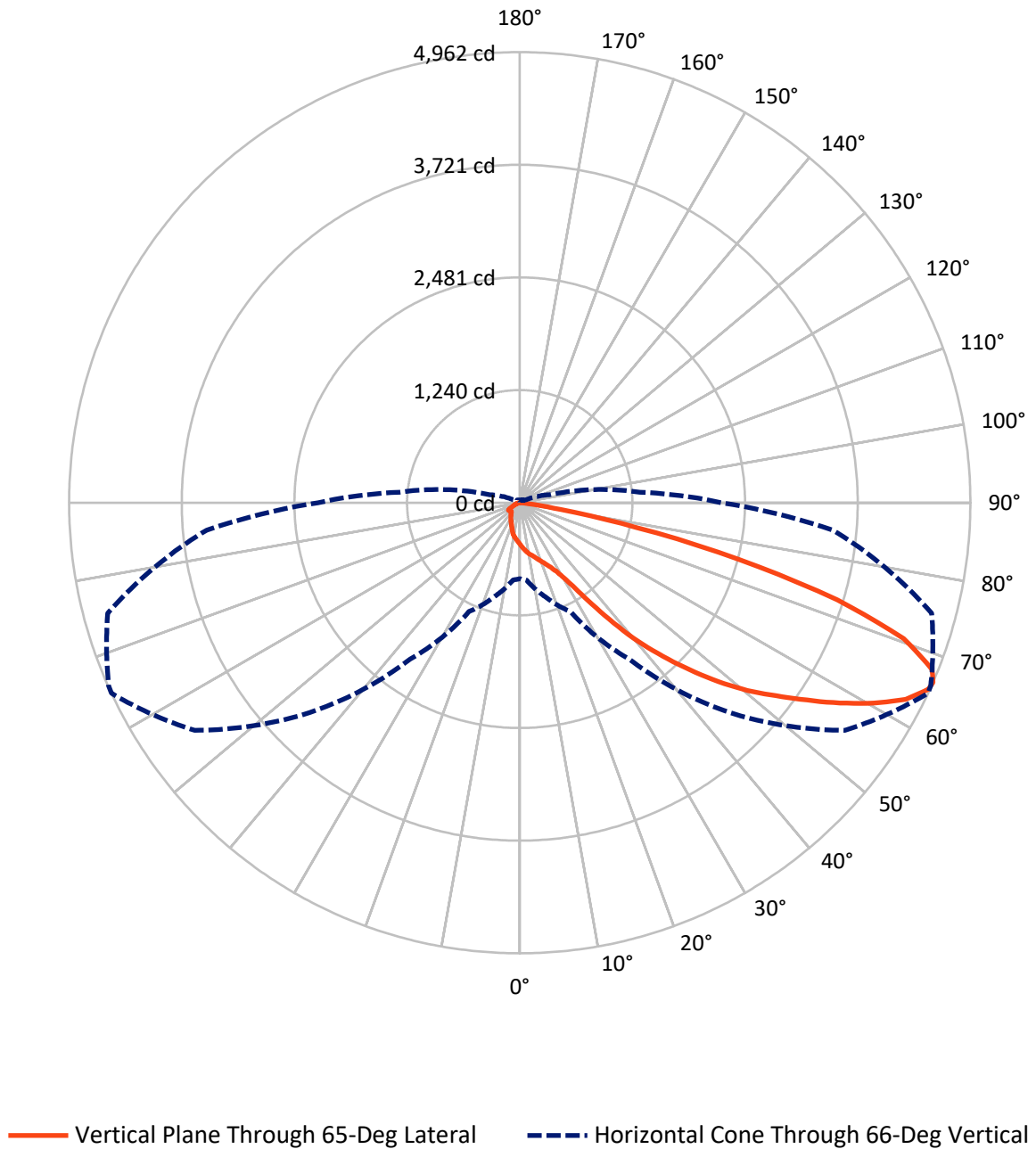
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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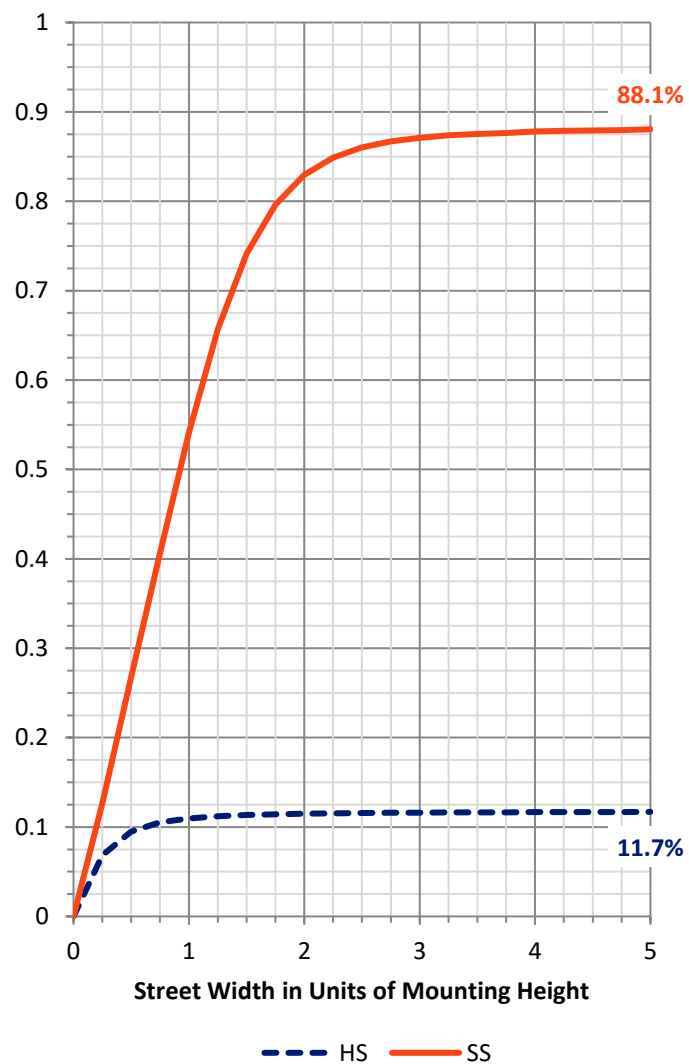
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.9	0.0	662.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4954.1	0.0	4954.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	5617.0	0.0	5617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.8
10°-20°	128.4	2.3
20°-30°	235.1	4.2
30°-40°	477.6	8.5
40°-50°	1008.7	18.0
50°-60°	1550.6	27.6
60°-70°	1560.8	27.8
70°-80°	583.2	10.4
80°-90°	29.1	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°	5617.0	100.0
0°-180°	5617.0	100.0

Coefficient of Utilization



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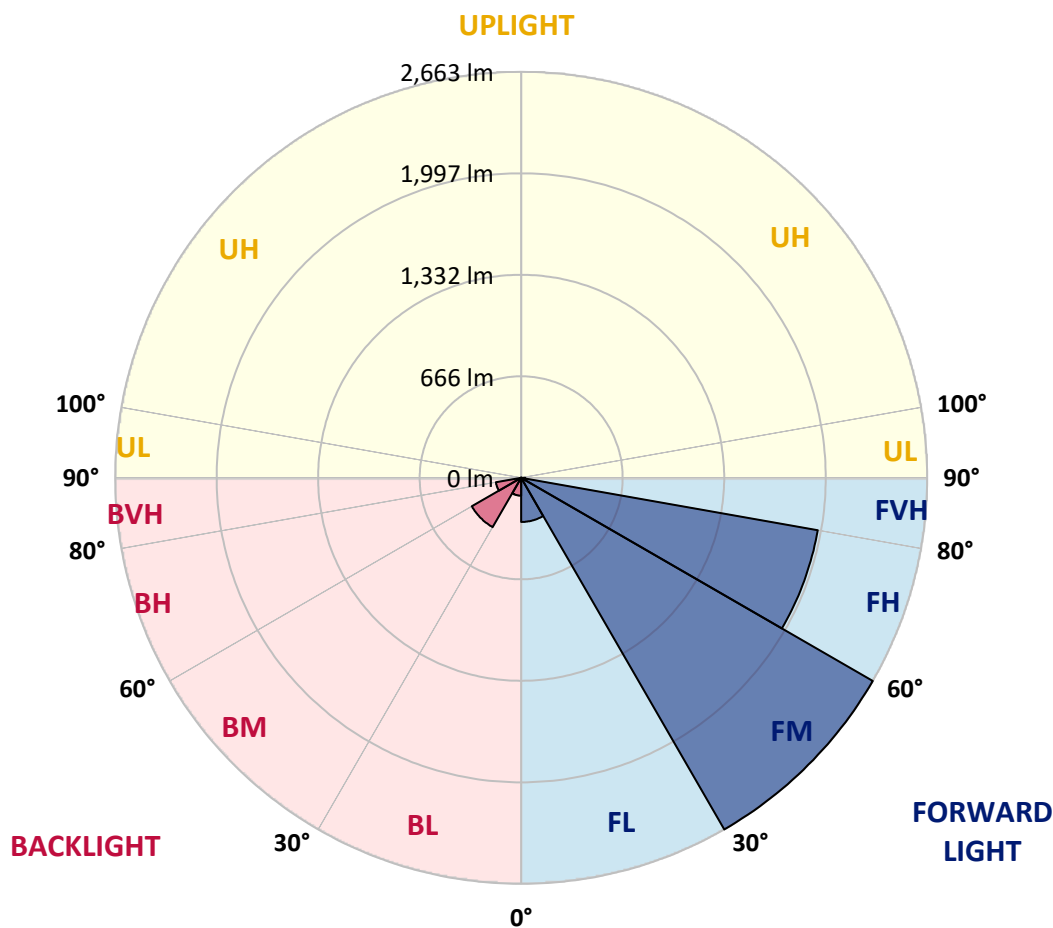
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.5	5.2			
FM	(30°-60°)	2663.2	47.4			
FH	(60°-80°)	1975.6	35.2			G2/5000
FVH	(80°-90°)	25.7	0.5			G1/100
BL	(0°-30°)	117.3	2.1	B1/500		
BM	(30°-60°)	373.8	6.7	B1/1000		
BH	(60°-80°)	168.4	3.0	B1/500		G1/500
BVH	(80°-90°)	3.4	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°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	521.8	522.9	520.8	516.7	512.7	507.6	499.4	486.2	484.1	475.0	464.8
5°	557.5	559.5	556.5	555.5	553.4	546.3	535.1	515.7	513.7	495.3	471.9
7.5°	569.7	572.8	570.8	570.8	570.8	567.7	562.6	545.3	542.2	518.8	483.1
10°	578.9	581.0	579.9	584.0	587.1	585.0	582.0	571.8	568.7	545.3	498.4
12.5°	593.2	594.2	595.2	597.3	602.4	604.4	603.4	594.2	592.2	575.9	517.8
15°	606.4	606.4	607.5	616.6	623.8	627.8	628.9	621.7	619.7	606.4	542.2
17.5°	618.7	619.7	622.7	632.9	645.2	653.3	658.4	655.4	652.3	642.1	570.8
20°	637.0	639.0	642.1	656.4	668.6	681.9	692.0	691.0	690.0	682.9	604.4
22.5°	668.6	670.6	675.7	689.0	701.2	717.5	734.9	733.8	730.8	725.7	644.1
25°	716.5	716.5	719.6	730.8	746.1	765.4	781.7	784.8	781.7	778.7	694.1
27.5°	776.6	777.7	777.7	789.9	804.2	828.6	849.0	852.1	852.1	849.0	761.4
30°	860.2	857.2	855.1	865.3	880.6	916.3	951.9	958.1	955.0	960.1	856.1
32.5°	1003.9	998.8	981.5	983.5	992.7	1041.6	1101.8	1123.2	1122.2	1131.3	1009.0
35°	1202.7	1192.5	1167.0	1145.6	1144.6	1197.6	1289.3	1369.8	1368.8	1400.4	1241.4
37.5°	1426.9	1440.2	1392.2	1355.6	1344.3	1386.1	1504.4	1678.6	1687.8	1742.9	1546.1
40°	1726.5	1734.7	1673.6	1621.6	1568.6	1583.9	1739.8	2010.9	2027.2	2088.4	1850.9
42.5°	1987.5	1995.6	1960.0	1896.8	1829.5	1801.0	1977.3	2312.6	2325.8	2410.4	2164.8
45°	2164.8	2170.9	2183.2	2189.3	2112.8	2053.7	2267.8	2622.4	2638.7	2736.6	2471.6
47.5°	2303.4	2308.5	2333.0	2394.1	2378.8	2332.0	2563.3	2944.5	2948.6	3057.6	2770.2
50°	2367.6	2379.9	2440.0	2533.8	2601.0	2614.3	2884.4	3249.3	3260.5	3364.4	3052.5
52.5°	2296.3	2300.4	2452.2	2628.6	2764.1	2898.6	3206.4	3531.6	3564.2	3641.7	3306.3
55°	2055.8	2085.3	2315.7	2625.5	2892.5	3168.7	3550.9	3836.3	3865.9	3914.8	3529.5
57.5°	1776.5	1809.1	2089.4	2494.0	2947.6	3418.4	3870.0	4160.4	4180.8	4194.1	3734.4
60°	1534.9	1565.5	1854.0	2242.3	2892.5	3594.8	4166.6	4482.5	4499.8	4464.2	3837.3
62.5°	1238.3	1268.9	1559.4	1909.0	2676.5	3630.4	4386.7	4768.9	4776.0	4679.2	3774.2
65°	933.6	954.0	1196.6	1496.2	2298.3	3440.9	4436.6	4947.3	4940.1	4741.4	3584.6
66°	836.8	854.1	1068.1	1322.9	2101.6	3267.6	4369.4	4961.5	4954.4	4695.5	3460.2
67.5°	721.6	726.7	903.0	1082.4	1758.1	2899.7	4164.5	4896.3	4902.4	4569.1	3232.9
70°	563.6	562.6	664.5	753.2	1200.6	2062.9	3473.5	4485.6	4515.1	4092.1	2757.0
72.5°	360.8	348.6	407.7	460.7	699.2	1197.6	2532.7	3655.9	3705.9	3214.6	2053.7
75°	215.1	202.8	217.1	230.3	335.3	575.9	1489.1	2487.9	2535.8	2060.9	1222.0
77.5°	161.0	155.9	157.0	145.7	148.8	216.1	679.8	1314.8	1349.4	843.9	463.7
80°	123.3	110.1	102.9	108.0	97.8	85.6	252.8	452.5	473.9	199.8	96.8
82.5°	82.6	71.3	66.2	72.4	62.2	47.9	61.2	87.7	85.6	54.0	37.7
85°	42.8	36.7	36.7	36.7	31.6	23.4	26.5	35.7	35.7	28.5	22.4
87.5°	12.2	11.2	13.2	12.2	9.2	9.2	10.2	12.2	12.2	11.2	10.2
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°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	456.6	452.5	441.3	433.2	425.0	417.9	409.7	407.7	403.6	404.6	402.6
5°	459.7	448.5	429.1	410.7	396.5	384.2	369.0	362.8	354.7	351.6	349.6
7.5°	463.7	447.4	418.9	393.4	369.0	344.5	320.0	305.8	296.6	292.5	289.5
10°	472.9	451.5	413.8	374.1	332.3	297.6	273.1	263.0	256.8	255.8	254.8
12.5°	485.1	457.6	408.7	349.6	294.6	261.9	246.6	243.6	242.6	242.6	241.6
15°	503.5	467.8	400.6	321.1	265.0	242.6	235.4	230.3	228.3	228.3	228.3
17.5°	521.8	480.1	388.3	291.5	244.6	230.3	223.2	220.2	218.1	219.1	218.1
20°	545.3	494.3	372.0	266.0	231.4	220.2	213.0	210.0	208.9	208.9	208.9
22.5°	571.8	510.6	351.6	246.6	220.2	210.0	202.8	199.8	197.7	198.7	198.7
25°	607.5	531.0	330.2	227.3	208.9	199.8	191.6	187.5	187.5	188.6	189.6
27.5°	653.3	555.5	308.8	215.1	198.7	189.6	180.4	176.3	177.3	179.4	179.4
30°	720.6	589.1	287.4	201.8	187.5	177.3	169.2	165.1	167.2	171.2	171.2
32.5°	816.4	644.1	269.1	186.5	171.2	160.0	151.9	148.8	153.9	162.1	162.1
35°	987.6	745.0	257.9	171.2	153.9	140.7	130.5	127.4	134.5	144.7	144.7
37.5°	1216.9	907.1	261.9	158.0	139.6	124.3	113.1	109.1	114.2	123.3	126.4
40°	1472.8	1102.8	297.6	146.8	126.4	111.1	99.9	95.8	98.9	102.9	104.0
42.5°	1728.6	1310.7	364.9	138.6	116.2	99.9	89.7	86.6	88.7	89.7	90.7
45°	1983.4	1516.6	449.5	133.5	107.0	90.7	80.5	80.5	81.5	81.5	81.5
47.5°	2224.9	1717.4	538.1	132.5	98.9	81.5	73.4	74.4	74.4	75.4	75.4
50°	2453.3	1896.8	627.8	135.6	91.7	73.4	67.3	67.3	67.3	68.3	67.3
52.5°	2643.8	2053.7	721.6	140.7	84.6	67.3	61.2	61.2	61.2	62.2	61.2
55°	2824.2	2196.4	817.4	147.8	78.5	62.2	56.1	54.0	54.0	55.0	54.0
57.5°	2971.0	2291.2	908.1	148.8	73.4	57.1	52.0	48.9	48.9	48.9	48.9
60°	2977.1	2236.2	934.6	130.5	67.3	52.0	46.9	42.8	43.8	43.8	43.8
62.5°	2782.5	1946.7	751.2	97.8	60.1	46.9	42.8	38.7	38.7	38.7	38.7
65°	2400.3	1514.6	440.3	77.5	52.0	41.8	37.7	34.7	34.7	34.7	33.6
66°	2220.9	1328.0	337.4	70.3	48.9	40.8	36.7	33.6	32.6	31.6	31.6
67.5°	1928.4	1049.8	211.0	62.2	44.8	37.7	33.6	30.6	29.6	28.5	28.5
70°	1452.4	666.6	102.9	47.9	38.7	32.6	29.6	26.5	25.5	24.5	23.4
72.5°	1019.2	390.4	54.0	36.7	31.6	28.5	25.5	22.4	21.4	20.4	20.4
75°	575.9	188.6	35.7	26.5	25.5	23.4	21.4	18.3	17.3	17.3	17.3
77.5°	218.1	65.2	24.5	19.4	20.4	18.3	15.3	15.3	14.3	15.3	14.3
80°	57.1	28.5	15.3	14.3	15.3	13.2	11.2	12.2	12.2	12.2	12.2
82.5°	30.6	16.3	9.2	10.2	9.2	9.2	7.1	8.2	9.2	8.2	9.2
85°	21.4	8.2	5.1	5.1	4.1	4.1	3.1	4.1	5.1	4.1	4.1
87.5°	11.2	3.1	3.1	3.1	3.1	2.0	1.0	0.0	1.0	1.0	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)