

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: P1210214

Luminaire Tested: **ARCH2-50-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210214
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: ARCH2-50-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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



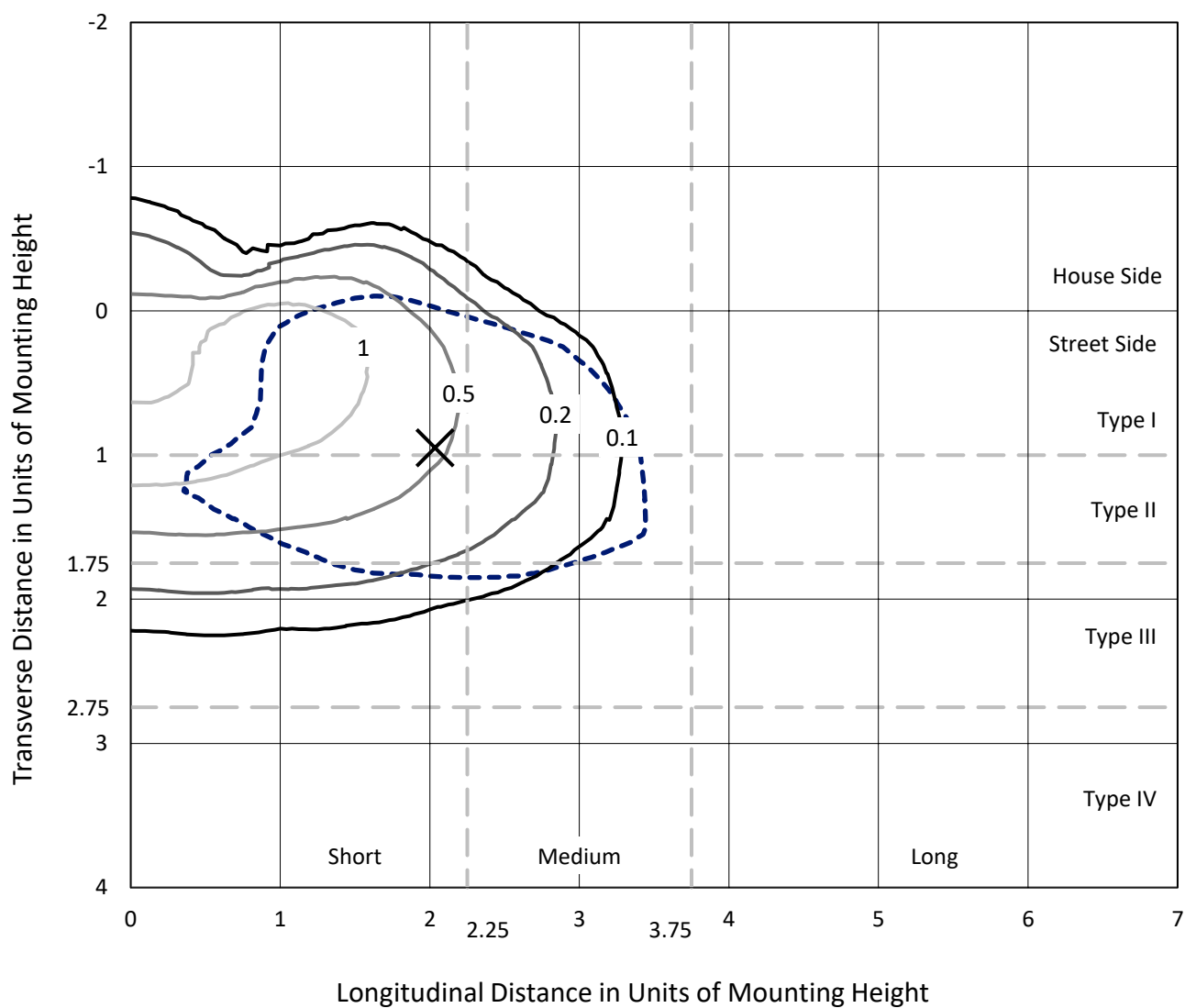
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Iso-Footcandle Lines of Horizontal Illumination

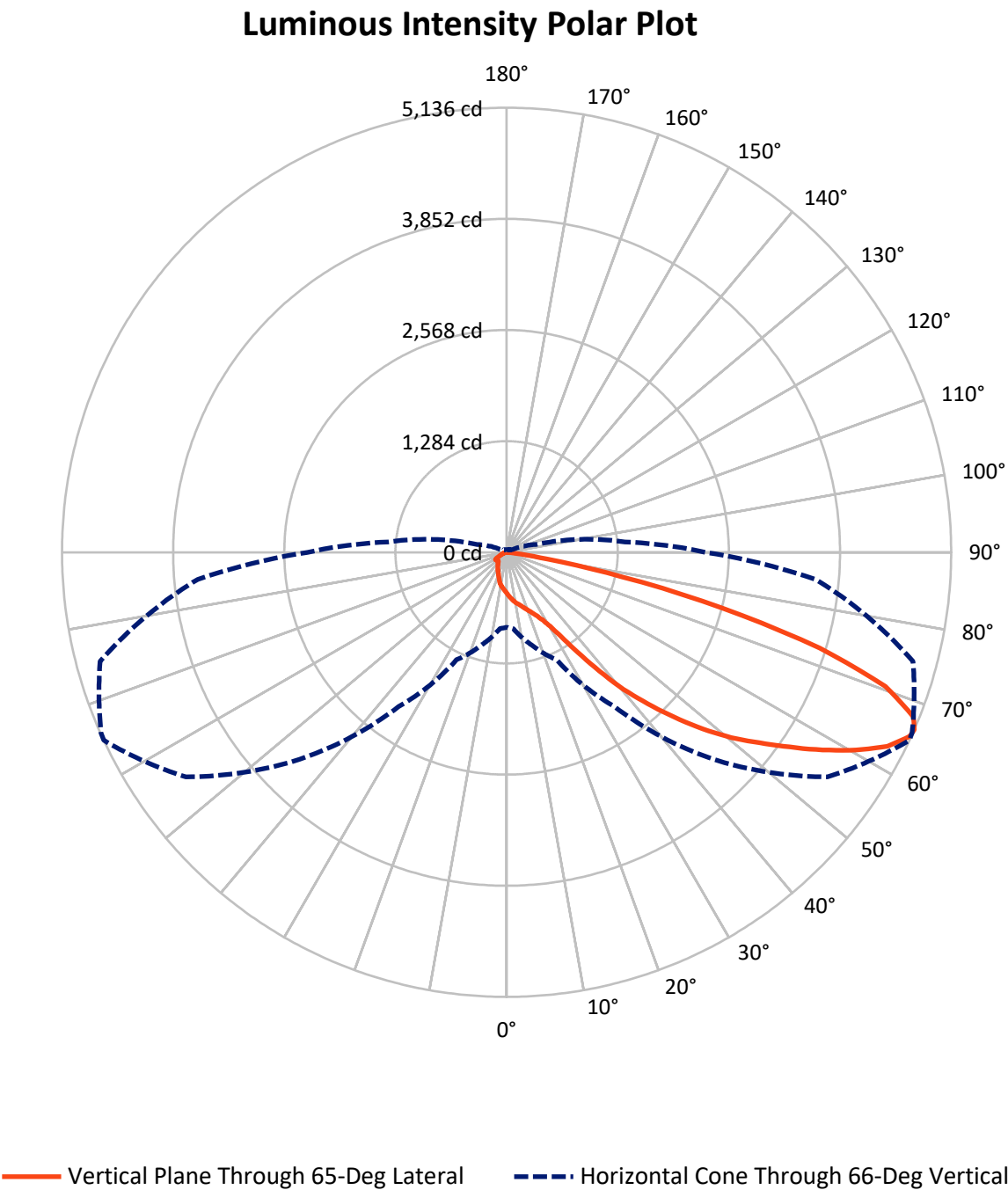
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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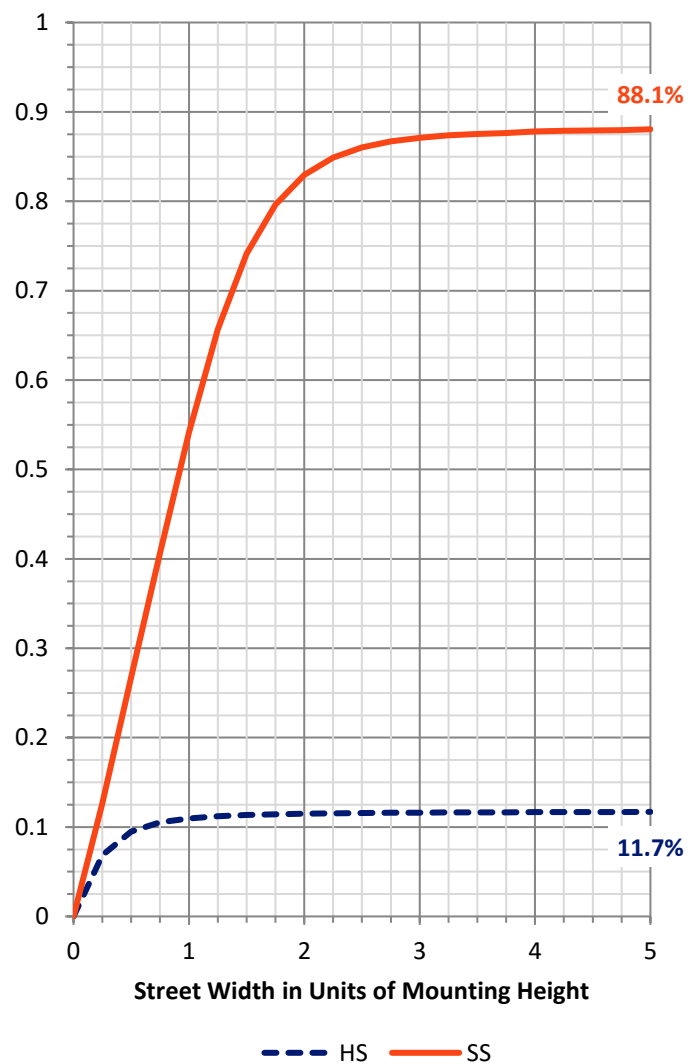
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.3	0.0	686.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5128.7	0.0	5128.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	5815.0	0.0	5815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	0.8
10°-20°	133.0	2.3
20°-30°	243.4	4.2
30°-40°	494.5	8.5
40°-50°	1044.2	18.0
50°-60°	1605.3	27.6
60°-70°	1615.8	27.8
70°-80°	603.8	10.4
80°-90°	30.2	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°	5815.0	100.0
0°-180°	5815.0	100.0

Coefficient of Utilization



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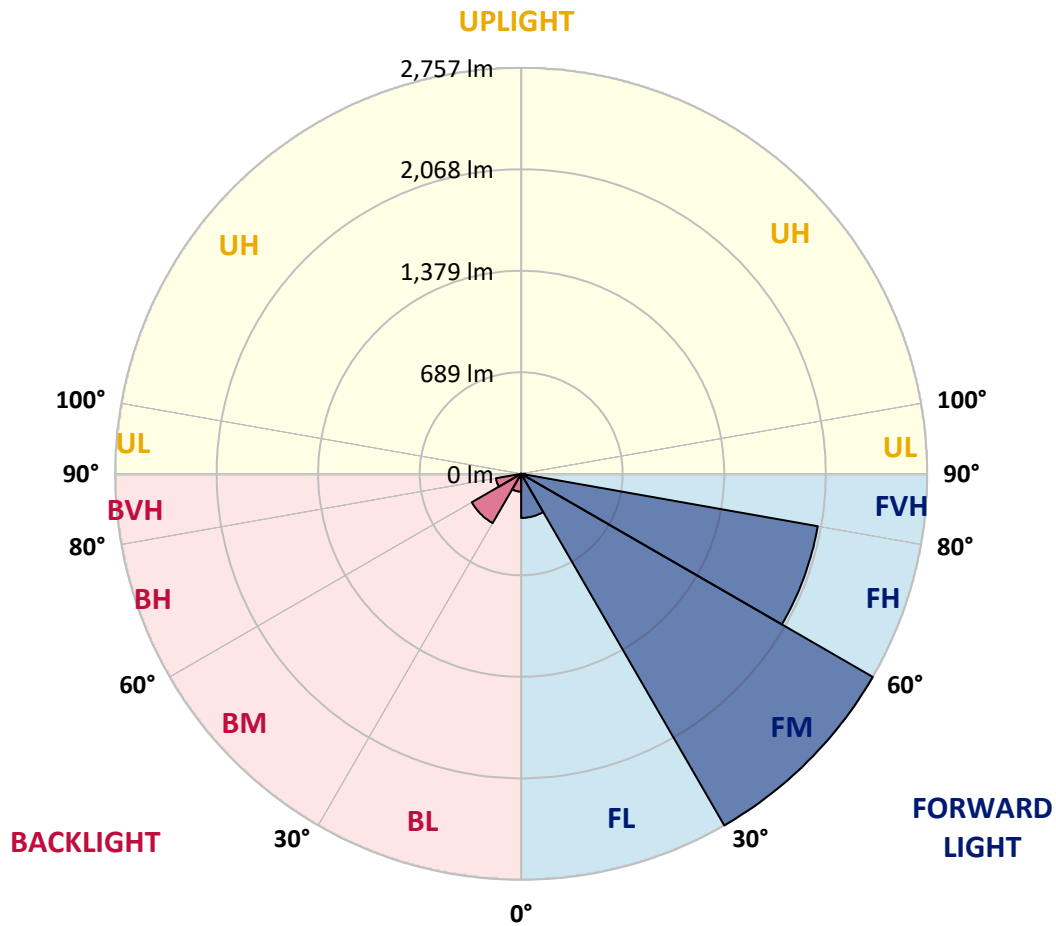
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.8	5.2			
FM	(30°-60°)	2757.1	47.4			
FH	(60°-80°)	2045.3	35.2			G2/5000
FVH	(80°-90°)	26.6	0.5			G1/100
BL	(0°-30°)	121.5	2.1	B1/500		
BM	(30°-60°)	386.9	6.7	B1/1000		
BH	(60°-80°)	174.3	3.0	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	540.2	541.3	539.2	535.0	530.7	525.5	517.0	503.3	501.2	491.7	481.1
5°	577.2	579.3	576.1	575.1	572.9	565.6	553.9	533.9	531.8	512.8	488.5
7.5°	589.8	593.0	590.9	590.9	590.9	587.7	582.4	564.5	561.3	537.1	500.1
10°	599.3	601.4	600.4	604.6	607.8	605.7	602.5	591.9	588.8	564.5	516.0
12.5°	614.1	615.1	616.2	618.3	623.6	625.7	624.6	615.1	613.0	596.2	536.0
15°	627.8	627.8	628.9	638.4	645.7	650.0	651.0	643.6	641.5	627.8	561.3
17.5°	640.5	641.5	644.7	655.2	667.9	676.3	681.6	678.5	675.3	664.7	590.9
20°	659.5	661.6	664.7	679.5	692.2	705.9	716.4	715.4	714.3	706.9	625.7
22.5°	692.2	694.3	699.6	713.3	725.9	742.8	760.8	759.7	756.5	751.3	666.8
25°	741.8	741.8	744.9	756.5	772.4	792.4	809.3	812.5	809.3	806.1	718.6
27.5°	804.0	805.1	805.1	817.7	832.5	857.8	878.9	882.1	882.1	878.9	788.2
30°	890.5	887.4	885.3	895.8	911.6	948.6	985.5	991.8	988.7	993.9	886.3
32.5°	1039.3	1034.0	1016.1	1018.2	1027.7	1078.4	1140.6	1162.8	1161.7	1171.2	1044.6
35°	1245.1	1234.5	1208.1	1186.0	1184.9	1239.8	1334.8	1418.1	1417.1	1449.8	1285.2
37.5°	1477.2	1490.9	1441.3	1403.3	1391.7	1435.0	1557.4	1737.8	1747.3	1804.3	1600.7
40°	1787.4	1795.9	1732.5	1678.7	1623.9	1639.7	1801.1	2081.8	2098.7	2162.0	1916.1
42.5°	2057.5	2066.0	2029.0	1963.6	1894.0	1864.4	2047.0	2394.1	2407.8	2495.4	2241.1
45°	2241.1	2247.5	2260.1	2266.4	2187.3	2126.1	2347.7	2714.9	2731.8	2833.1	2558.7
47.5°	2384.6	2389.9	2415.2	2478.5	2462.7	2414.2	2653.7	3048.3	3052.5	3165.4	2867.9
50°	2451.1	2463.8	2526.0	2623.1	2692.7	2706.4	2986.1	3363.8	3375.4	3483.0	3160.2
52.5°	2377.2	2381.5	2538.7	2721.2	2861.5	3000.8	3319.5	3656.1	3689.8	3770.0	3422.9
55°	2128.2	2158.8	2397.3	2718.0	2994.5	3280.4	3676.1	3971.6	4002.2	4052.8	3654.0
57.5°	1839.1	1872.9	2163.0	2581.9	3051.5	3538.9	4006.4	4307.1	4328.2	4341.9	3866.0
60°	1589.0	1620.7	1919.3	2321.3	2994.5	3721.5	4313.4	4640.5	4658.5	4621.5	3972.6
62.5°	1282.0	1313.7	1614.4	1976.3	2770.8	3758.4	4541.3	4937.0	4944.4	4844.2	3907.2
65°	966.5	987.6	1238.7	1548.9	2379.3	3562.2	4593.0	5121.7	5114.3	4908.5	3710.9
66°	866.3	884.2	1105.8	1369.6	2175.7	3382.8	4523.4	5136.4	5129.0	4861.0	3582.2
67.5°	747.0	752.3	934.9	1120.6	1820.1	3001.9	4311.3	5068.9	5075.2	4730.2	3346.9
70°	583.5	582.4	688.0	779.8	1243.0	2135.6	3595.9	4643.7	4674.3	4236.4	2854.2
72.5°	373.5	360.9	422.1	476.9	723.8	1239.8	2622.0	3784.8	3836.5	3327.9	2126.1
75°	222.6	210.0	224.7	238.5	347.1	596.2	1541.6	2575.6	2625.2	2133.5	1265.1
77.5°	166.7	161.4	162.5	150.9	154.1	223.7	703.8	1361.1	1397.0	873.7	480.1
80°	127.7	114.0	106.6	111.8	101.3	88.6	261.7	468.5	490.6	206.8	100.2
82.5°	85.5	73.9	68.6	74.9	64.4	49.6	63.3	90.7	88.6	55.9	39.0
85°	44.3	38.0	38.0	38.0	32.7	24.3	27.4	36.9	36.9	29.5	23.2
87.5°	12.7	11.6	13.7	12.7	9.5	9.5	10.6	12.7	12.7	11.6	10.6
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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	472.7	468.5	456.9	448.4	440.0	432.6	424.2	422.1	417.8	418.9	416.8
5°	475.9	464.3	444.2	425.2	410.5	397.8	382.0	375.6	367.2	364.0	361.9
7.5°	480.1	463.2	433.7	407.3	382.0	356.6	331.3	316.5	307.0	302.8	299.7
10°	489.6	467.4	428.4	387.2	344.0	308.1	282.8	272.2	265.9	264.8	263.8
12.5°	502.2	473.8	423.1	361.9	304.9	271.2	255.3	252.2	251.1	251.1	250.1
15°	521.2	484.3	414.7	332.4	274.3	251.1	243.7	238.5	236.4	236.4	236.4
17.5°	540.2	497.0	402.0	301.8	253.2	238.5	231.1	227.9	225.8	226.9	225.8
20°	564.5	511.7	385.1	275.4	239.5	227.9	220.5	217.4	216.3	216.3	216.3
22.5°	591.9	528.6	364.0	255.3	227.9	217.4	210.0	206.8	204.7	205.8	205.8
25°	628.9	549.7	341.9	235.3	216.3	206.8	198.4	194.1	194.1	195.2	196.3
27.5°	676.3	575.1	319.7	222.6	205.8	196.3	186.8	182.5	183.6	185.7	185.7
30°	746.0	609.9	297.6	208.9	194.1	183.6	175.2	170.9	173.0	177.3	177.3
32.5°	845.2	666.8	278.6	193.1	177.3	165.7	157.2	154.1	159.3	167.8	167.8
35°	1022.4	771.3	267.0	177.3	159.3	145.6	135.1	131.9	139.3	149.8	149.8
37.5°	1259.8	939.1	271.2	163.5	144.6	128.7	117.1	112.9	118.2	127.7	130.8
40°	1524.7	1141.7	308.1	151.9	130.8	115.0	103.4	99.2	102.3	106.6	107.6
42.5°	1789.5	1356.9	377.7	143.5	120.3	103.4	92.9	89.7	91.8	92.9	93.9
45°	2053.3	1570.1	465.3	138.2	110.8	93.9	83.4	83.4	84.4	84.4	84.4
47.5°	2303.4	1777.9	557.1	137.2	102.3	84.4	76.0	77.0	77.0	78.1	78.1
50°	2539.7	1963.6	650.0	140.3	95.0	76.0	69.6	69.6	69.6	70.7	69.6
52.5°	2737.0	2126.1	747.0	145.6	87.6	69.6	63.3	63.3	63.3	64.4	63.3
55°	2923.8	2273.8	846.2	153.0	81.2	64.4	58.0	55.9	55.9	57.0	55.9
57.5°	3075.7	2372.0	940.1	154.1	76.0	59.1	53.8	50.6	50.6	50.6	50.6
60°	3082.1	2315.0	967.6	135.1	69.6	53.8	48.5	44.3	45.4	45.4	45.4
62.5°	2880.5	2015.3	777.6	101.3	62.3	48.5	44.3	40.1	40.1	40.1	40.1
65°	2484.9	1567.9	455.8	80.2	53.8	43.3	39.0	35.9	35.9	35.9	34.8
66°	2299.2	1374.9	349.3	72.8	50.6	42.2	38.0	34.8	33.8	32.7	32.7
67.5°	1996.3	1086.8	218.4	64.4	46.4	39.0	34.8	31.7	30.6	29.5	29.5
70°	1503.6	690.1	106.6	49.6	40.1	33.8	30.6	27.4	26.4	25.3	24.3
72.5°	1055.1	404.1	55.9	38.0	32.7	29.5	26.4	23.2	22.2	21.1	21.1
75°	596.2	195.2	36.9	27.4	26.4	24.3	22.2	19.0	17.9	17.9	17.9
77.5°	225.8	67.5	25.3	20.0	21.1	19.0	15.8	15.8	14.8	15.8	14.8
80°	59.1	29.5	15.8	14.8	15.8	13.7	11.6	12.7	12.7	12.7	12.7
82.5°	31.7	16.9	9.5	10.6	9.5	9.5	7.4	8.4	9.5	8.4	9.5
85°	22.2	8.4	5.3	5.3	4.2	4.2	3.2	4.2	5.3	4.2	4.2
87.5°	11.6	3.2	3.2	3.2	3.2	2.1	1.1	0.0	1.1	1.1	1.1
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)