

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: P799986

Luminaire Tested: **ARCH2-70-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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

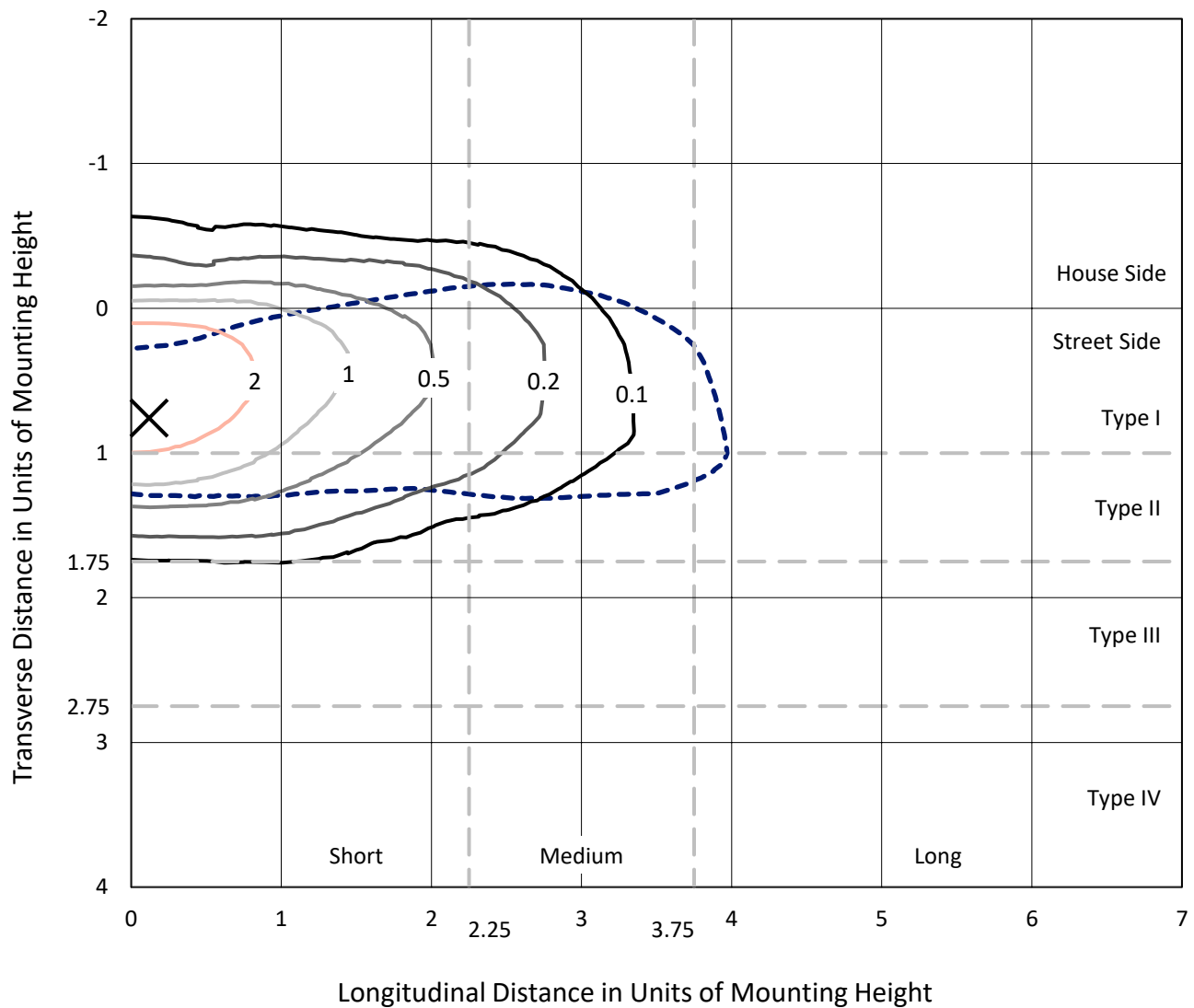


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

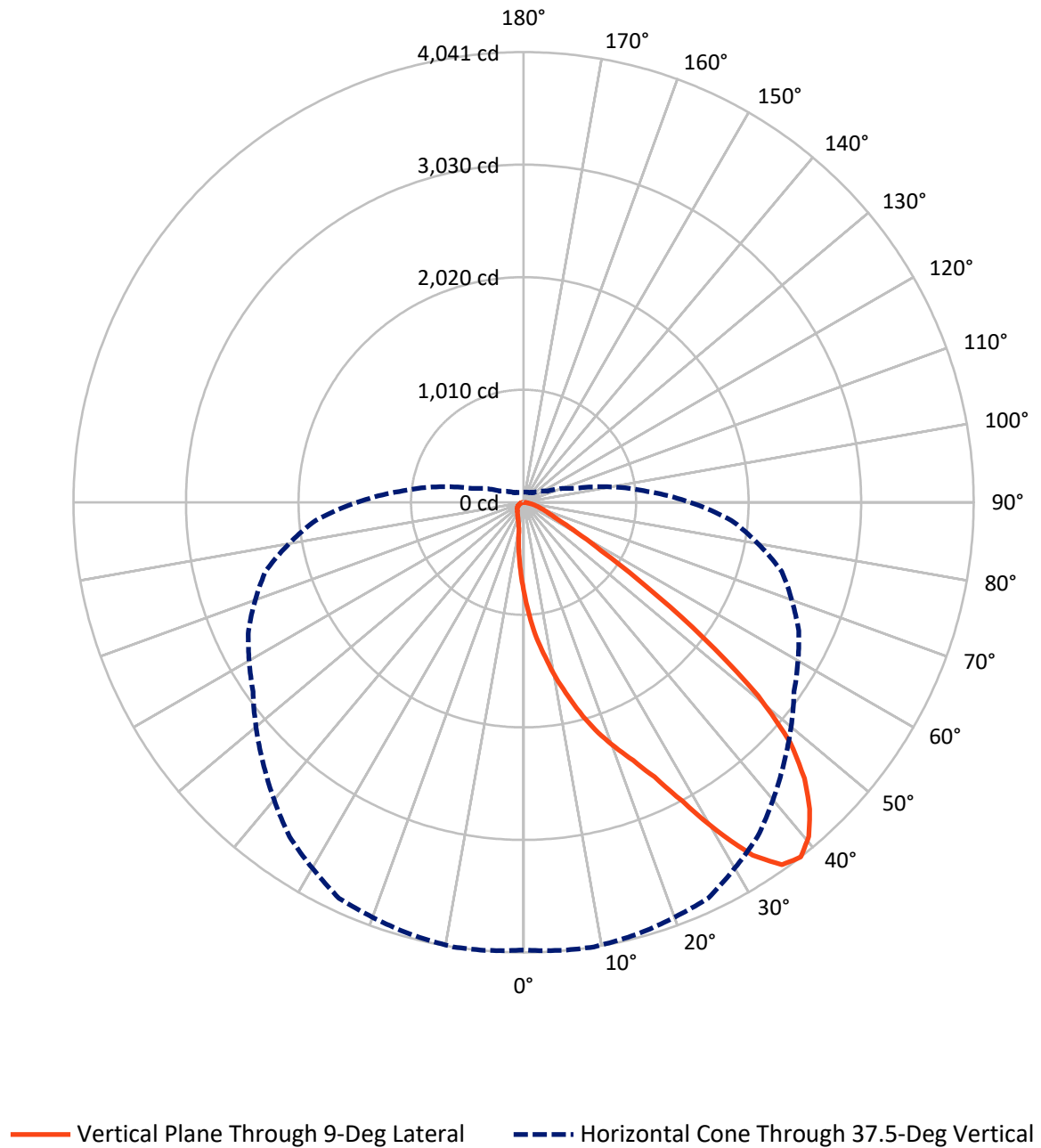


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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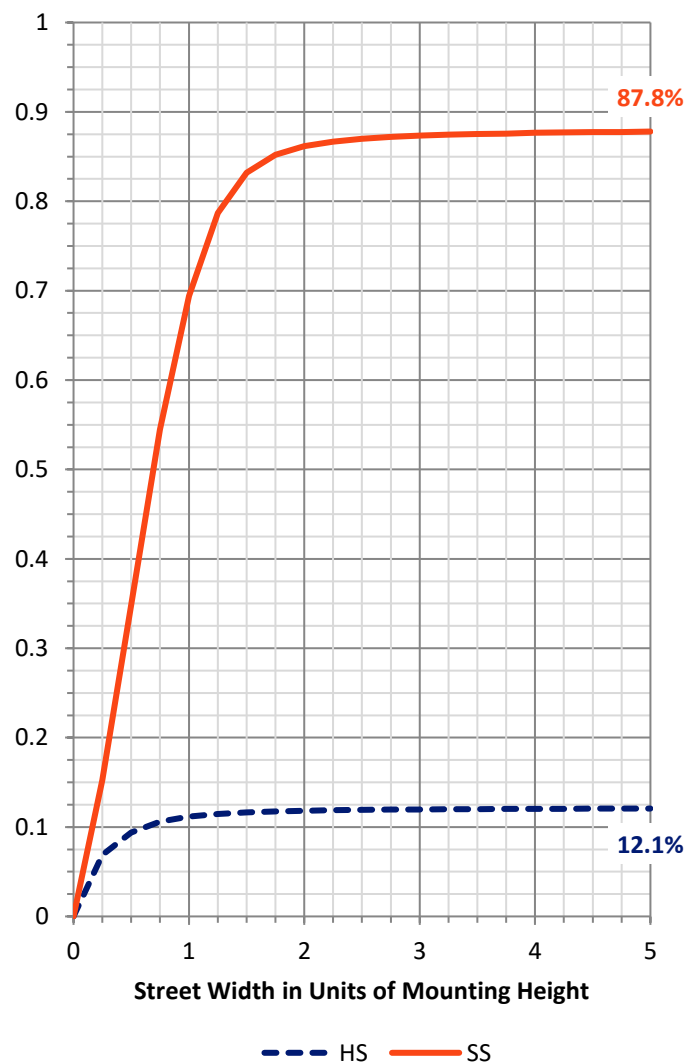
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	753.8	0.0	753.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5444.2	0.0	5444.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	6198.0	0.0	6198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.3
10°-20°	286.2	4.6
20°-30°	588.1	9.5
30°-40°	1039.6	16.8
40°-50°	1381.0	22.3
50°-60°	1309.8	21.1
60°-70°	999.2	16.1
70°-80°	484.4	7.8
80°-90°	27.3	0.4
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°	6198.0	100.0
0°-180°	6198.0	100.0

Coefficient of Utilization



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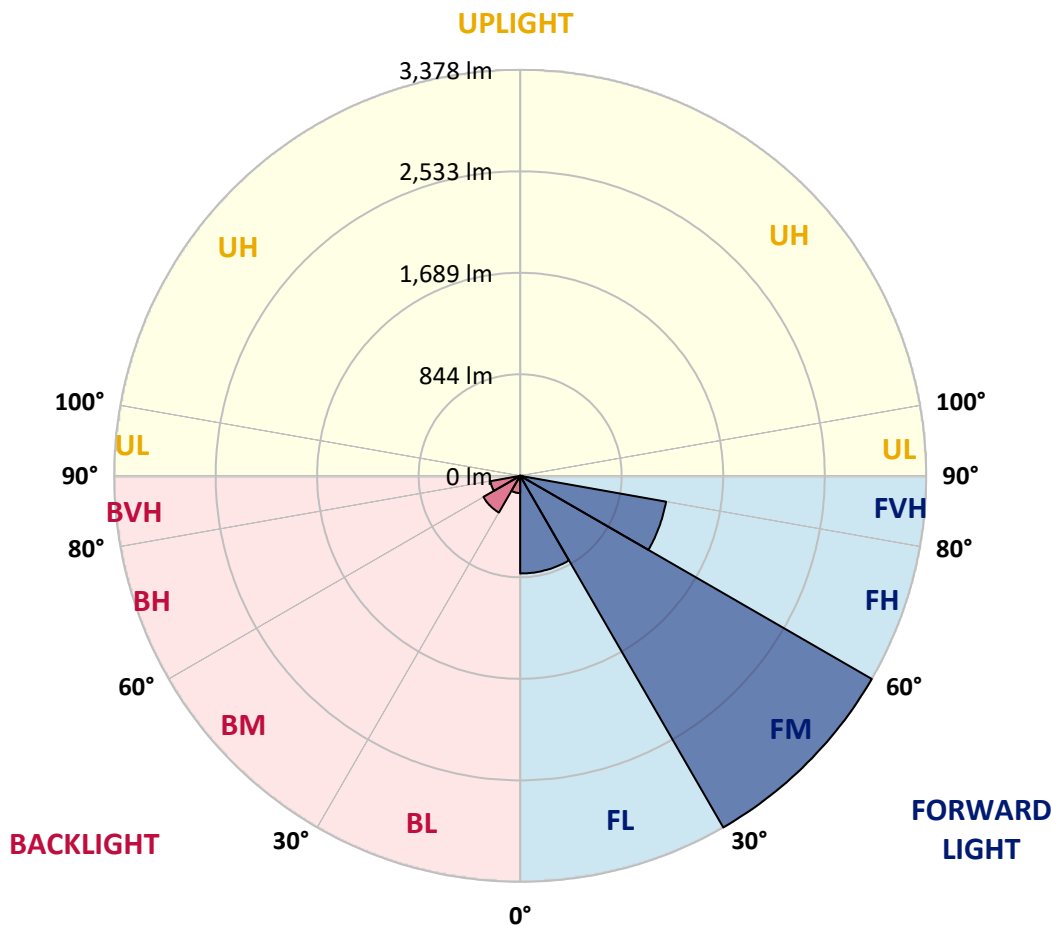
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.9	13.1			
FM	(30°-60°)	3377.6	54.5			
FH	(60°-80°)	1232.1	19.9			G1/1800
FVH	(80°-90°)	21.6	0.3			G1/100
BL	(0°-30°)	143.9	2.3	B1/500		
BM	(30°-60°)	352.7	5.7	B1/1000		
BH	(60°-80°)	251.5	4.1	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	1015.2	997.4	1017.8	1015.2	997.4	986.0	950.3	938.9	896.9	866.4	839.7
5°	1223.9	1206.1	1223.9	1218.8	1193.3	1165.3	1106.8	1068.7	993.6	927.4	867.6
7.5°	1396.9	1396.9	1404.5	1405.8	1375.3	1332.0	1259.5	1202.2	1096.6	994.9	899.4
10°	1583.9	1585.2	1601.7	1590.3	1549.5	1491.0	1399.4	1326.9	1199.7	1066.1	930.0
12.5°	1783.6	1784.9	1790.0	1784.9	1736.6	1661.5	1550.8	1455.4	1309.1	1147.5	972.0
15°	1983.4	1984.6	1991.0	1982.1	1928.7	1840.9	1714.9	1597.9	1424.9	1239.1	1022.9
17.5°	2170.4	2172.9	2178.0	2166.6	2110.6	2006.3	1877.8	1736.6	1548.3	1337.1	1080.1
20°	2338.3	2340.9	2344.7	2329.4	2273.4	2169.1	2030.4	1882.9	1674.2	1437.6	1142.4
22.5°	2507.5	2510.1	2516.4	2496.1	2433.7	2314.1	2178.0	2025.4	1807.8	1548.3	1215.0
25°	2723.8	2726.3	2731.4	2702.2	2616.9	2477.0	2333.2	2176.7	1952.8	1673.0	1304.0
27.5°	3040.6	3038.0	3038.0	2984.6	2838.3	2656.4	2489.7	2330.7	2109.3	1806.5	1402.0
30°	3432.4	3426.1	3422.2	3349.7	3141.1	2858.6	2650.0	2474.4	2259.4	1947.7	1507.6
32.5°	3783.5	3783.5	3775.9	3699.6	3478.2	3130.9	2820.5	2614.4	2404.5	2090.2	1617.0
35°	3990.9	3999.8	3996.0	3938.7	3777.2	3423.5	3050.7	2782.3	2557.1	2239.1	1748.0
37.5°	4018.9	4036.7	4040.5	4006.2	3920.9	3662.7	3306.5	2964.2	2725.1	2399.4	1875.2
40°	3905.7	3943.8	3943.8	3938.7	3908.2	3775.9	3521.5	3175.4	2898.1	2566.0	2003.7
42.5°	3731.4	3770.8	3765.7	3784.8	3777.2	3749.2	3642.3	3372.6	3071.1	2737.8	2120.8
45°	3503.7	3544.4	3534.2	3568.5	3583.8	3614.3	3629.6	3510.0	3241.6	2924.8	2251.8
47.5°	3138.5	3207.2	3222.5	3283.6	3347.2	3442.6	3515.1	3559.6	3400.6	3125.8	2394.3
50°	2599.1	2695.8	2726.3	2854.8	3029.1	3226.3	3343.4	3498.6	3512.6	3331.9	2548.2
52.5°	1861.2	1973.2	2020.3	2231.4	2590.2	2933.7	3144.9	3363.7	3555.8	3529.1	2714.9
55°	1203.5	1298.9	1344.7	1543.2	2020.3	2559.7	2910.8	3189.4	3531.6	3709.8	2905.7
57.5°	741.7	796.4	826.9	997.4	1436.3	2080.1	2604.2	3029.1	3457.9	3866.2	3104.2
60°	500.0	531.8	547.0	627.2	975.8	1554.6	2183.1	2861.2	3361.2	3971.8	3284.8
62.5°	332.0	342.2	357.5	407.1	643.7	1091.6	1676.8	2561.0	3288.7	3978.2	3418.4
65°	257.0	262.1	268.4	290.1	396.9	763.3	1179.3	2075.0	3180.5	3843.3	3460.4
67.5°	202.3	207.4	215.0	226.5	287.5	517.8	802.8	1520.3	2959.2	3632.1	3391.7
70°	159.0	162.8	167.9	178.1	223.9	375.3	530.5	1010.1	2512.6	3431.1	3175.4
72.5°	125.9	129.8	134.9	145.0	181.9	274.8	363.9	629.7	1937.6	3185.6	2759.4
75°	99.2	101.8	105.6	115.8	146.3	213.7	246.8	376.6	1316.7	2736.5	2150.0
77.5°	49.6	61.1	70.0	80.1	106.9	147.6	164.1	208.6	556.0	1404.5	1025.4
80°	29.3	35.6	38.2	44.5	70.0	89.1	89.1	84.0	175.6	539.4	418.6
82.5°	16.5	22.9	24.2	25.4	42.0	50.9	40.7	30.5	35.6	180.7	122.1
85°	5.1	7.6	8.9	10.2	14.0	15.3	14.0	12.7	10.2	17.8	11.4
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	2.5	2.5	3.8	3.8	3.8
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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	824.4	807.9	776.0	746.8	718.8	698.4	679.4	661.5	648.8	638.6	637.4
5°	835.8	802.8	741.7	684.4	632.3	589.0	552.1	522.9	501.2	486.0	484.7
7.5°	851.1	800.2	707.3	622.1	544.5	482.2	428.7	389.3	361.3	349.9	341.0
10°	863.8	797.7	673.0	559.8	458.0	379.1	315.5	276.1	255.7	248.1	244.3
12.5°	885.5	800.2	643.7	502.5	382.9	290.1	241.7	220.1	211.2	204.8	203.6
15°	917.3	811.7	615.7	446.5	306.6	234.1	206.1	192.1	183.2	181.9	180.7
17.5°	949.1	821.8	590.3	389.3	254.4	203.6	184.5	173.0	166.7	165.4	165.4
20°	986.0	834.6	562.3	334.6	217.5	183.2	167.9	159.0	151.4	150.1	150.1
22.5°	1029.2	852.4	535.6	286.2	193.4	167.9	155.2	145.0	138.7	137.4	137.4
25°	1087.7	879.1	514.0	250.6	176.8	155.2	143.8	134.9	129.8	127.2	127.2
27.5°	1152.6	916.0	498.7	229.0	165.4	145.0	133.6	125.9	120.9	118.3	118.3
30°	1225.1	956.7	488.5	220.1	159.0	136.1	125.9	118.3	112.0	110.7	110.7
32.5°	1305.3	1003.8	482.2	221.4	157.8	129.8	118.3	110.7	105.6	103.0	103.0
35°	1394.3	1055.9	478.3	229.0	160.3	124.7	112.0	104.3	99.2	96.7	96.7
37.5°	1493.6	1117.0	478.3	236.6	166.7	123.4	105.6	98.0	94.1	91.6	91.6
40°	1586.4	1181.9	483.4	245.5	173.0	123.4	100.5	94.1	89.1	86.5	86.5
42.5°	1659.0	1218.8	487.3	254.4	176.8	122.1	95.4	89.1	85.2	82.7	82.7
45°	1741.6	1258.2	479.6	258.3	176.8	119.6	91.6	85.2	81.4	78.9	78.9
47.5°	1833.2	1306.6	478.3	260.8	173.0	114.5	87.8	81.4	78.9	76.3	76.3
50°	1926.1	1360.0	480.9	259.5	167.9	106.9	82.7	78.9	75.1	72.5	72.5
52.5°	2031.7	1416.0	486.0	257.0	156.5	98.0	78.9	75.1	71.2	68.7	67.4
55°	2148.8	1477.0	496.2	251.9	141.2	89.1	75.1	71.2	66.2	63.6	62.3
57.5°	2283.6	1552.1	507.6	241.7	124.7	81.4	71.2	66.2	58.5	54.7	53.4
60°	2412.1	1637.3	520.3	217.5	108.1	73.8	67.4	59.8	52.2	49.6	48.3
62.5°	2533.0	1721.3	526.7	174.3	91.6	67.4	63.6	54.7	47.1	44.5	43.3
65°	2610.6	1812.9	512.7	118.3	75.1	62.3	58.5	50.9	43.3	39.4	39.4
67.5°	2615.7	1856.1	464.4	77.6	61.1	56.0	53.4	45.8	38.2	35.6	34.3
70°	2487.2	1791.3	354.9	61.1	50.9	48.3	48.3	40.7	33.1	30.5	29.3
72.5°	2192.0	1586.4	226.5	49.6	43.3	40.7	40.7	34.3	29.3	25.4	24.2
75°	1730.2	1223.9	120.9	40.7	35.6	34.3	31.8	28.0	24.2	21.6	20.4
77.5°	795.1	539.4	56.0	29.3	26.7	26.7	24.2	20.4	19.1	16.5	16.5
80°	314.2	183.2	28.0	19.1	17.8	17.8	17.8	14.0	14.0	11.4	10.2
82.5°	86.5	38.2	14.0	11.4	11.4	11.4	10.2	8.9	8.9	7.6	7.6
85°	8.9	6.4	6.4	6.4	6.4	5.1	5.1	3.8	2.5	2.5	2.5
87.5°	3.8	3.8	3.8	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0
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)