

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: P800182

Luminaire Tested: **ARCH2-80-740-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8036 lumens
Efficiency: N/A
Efficacy: 95.3 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): 84.3
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



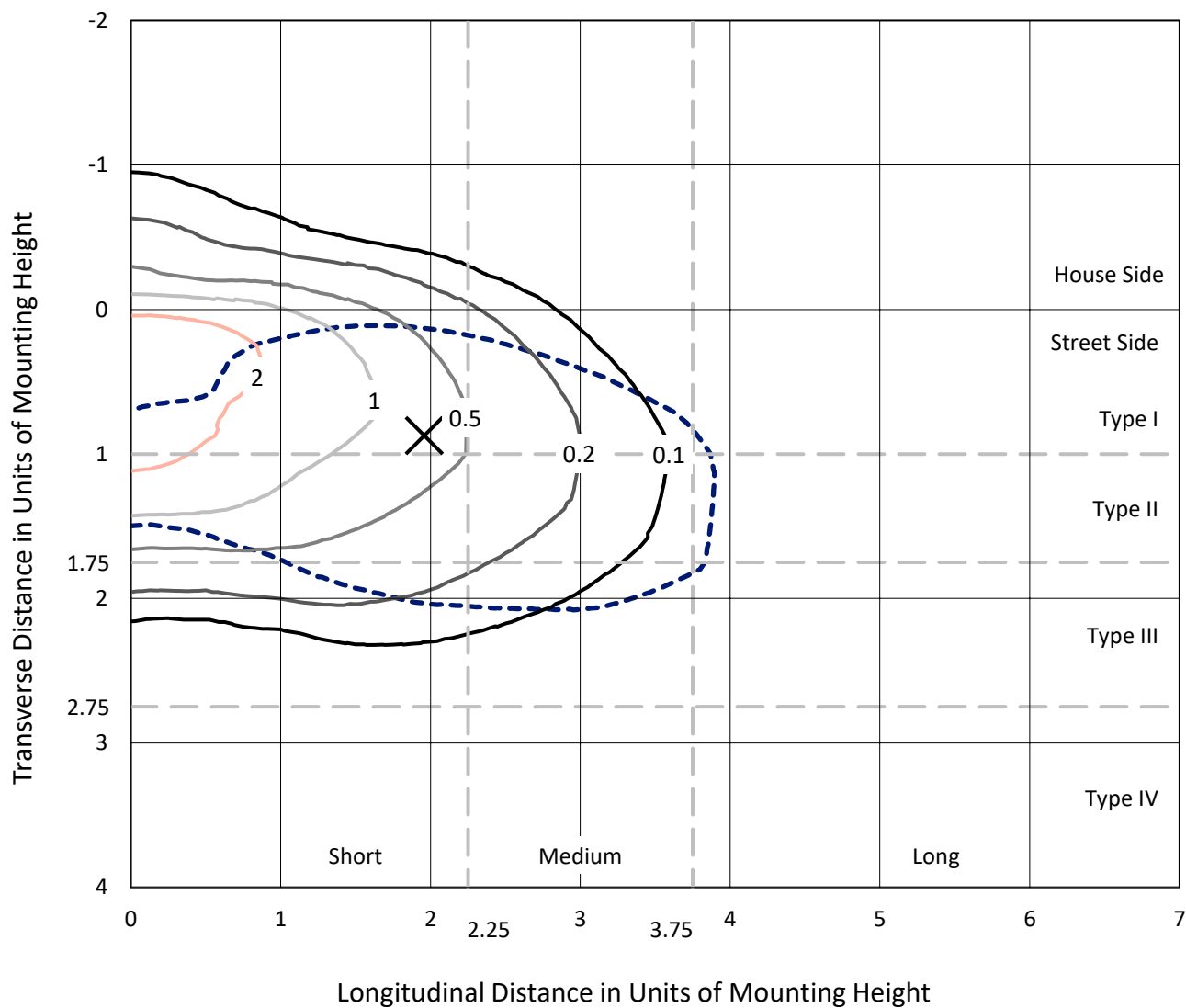
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

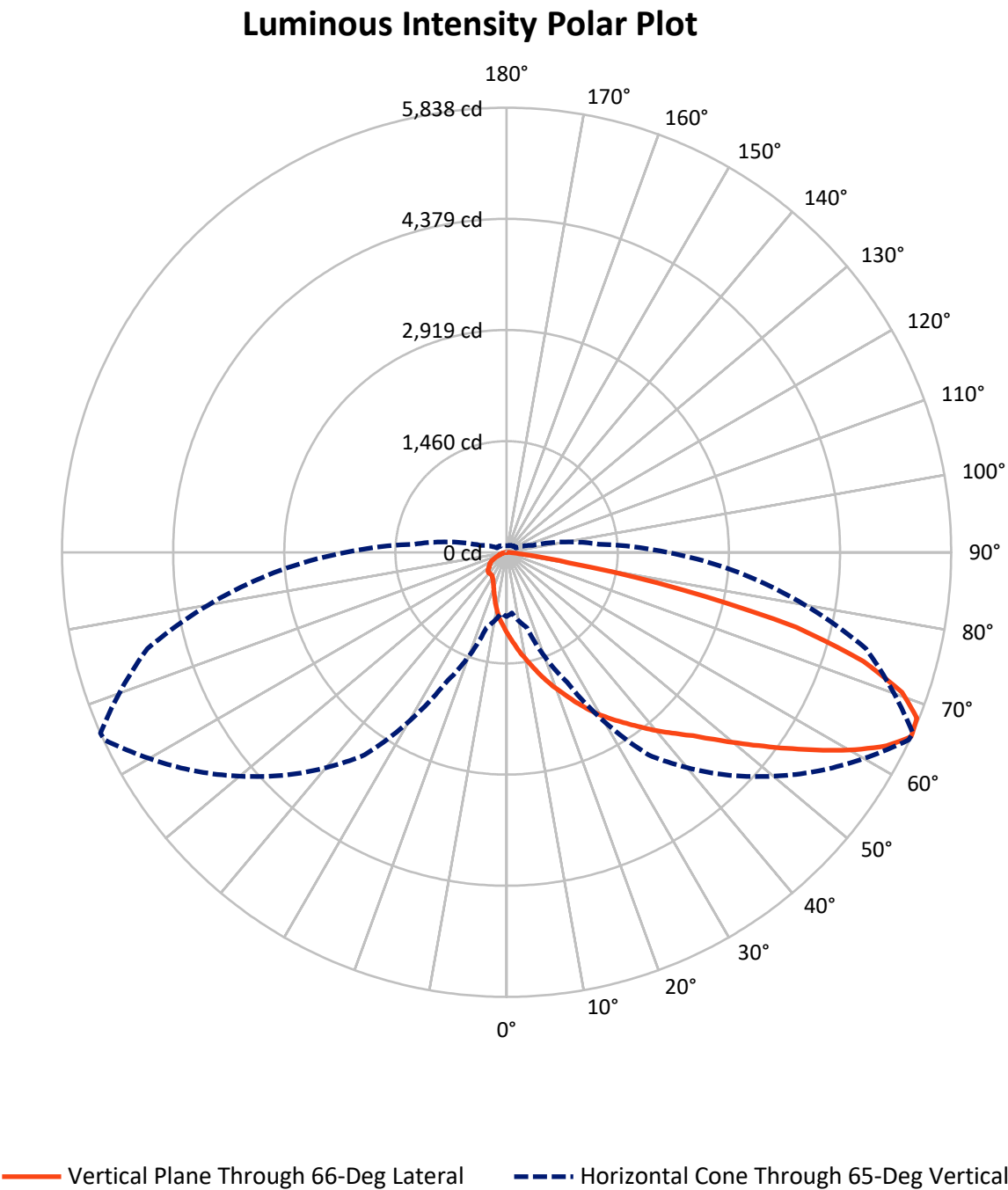
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type III - Short - N/A

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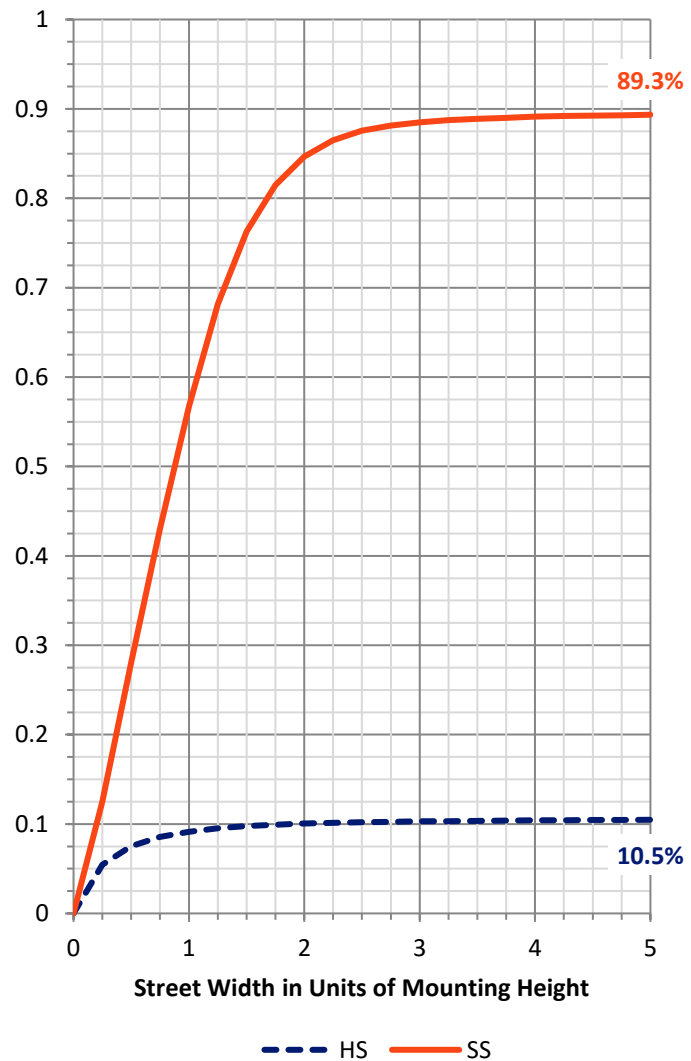
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.0	0.0	850.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7186.0	0.0	7186.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	8036.0	0.0	8036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.3
10°-20°	342.1	4.3
20°-30°	619.0	7.7
30°-40°	968.0	12.0
40°-50°	1468.4	18.3
50°-60°	1865.7	23.2
60°-70°	1743.3	21.7
70°-80°	866.4	10.8
80°-90°	58.2	0.7
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°	8036.0	100.0
0°-180°	8036.0	100.0

Coefficient of Utilization



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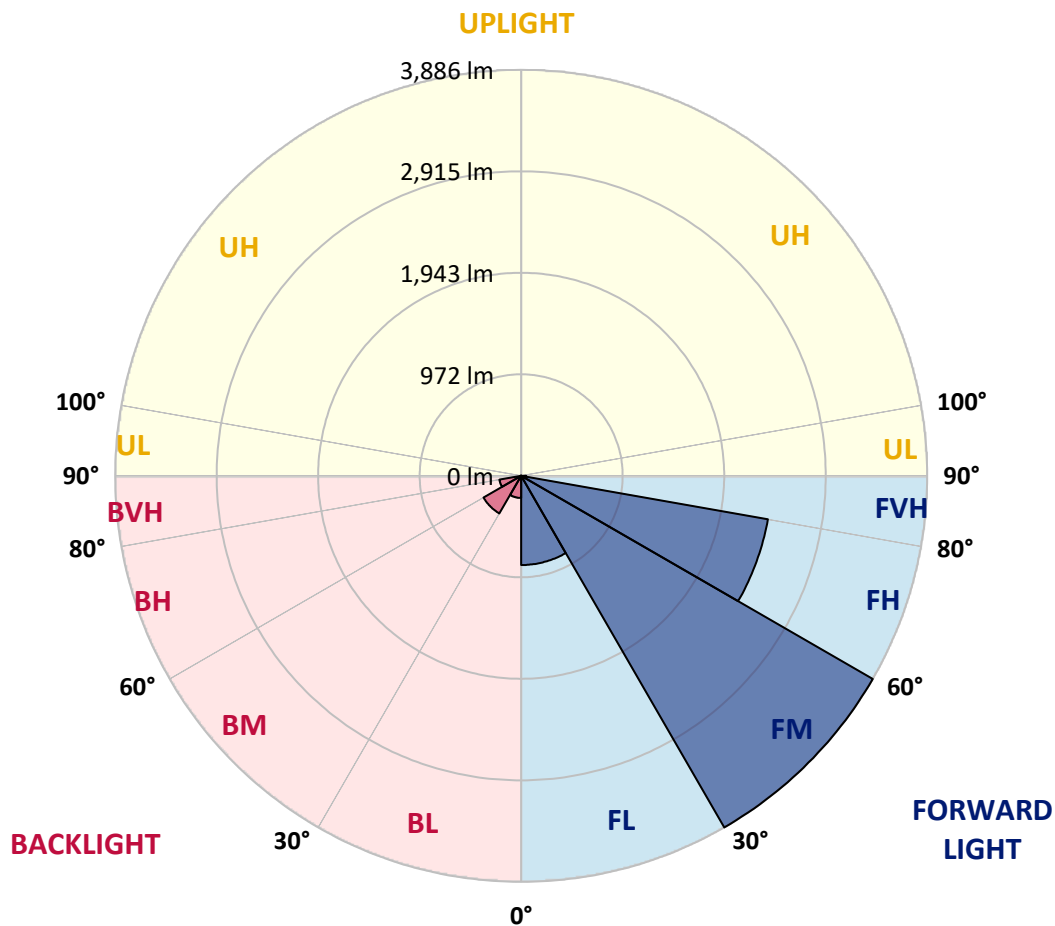
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	853.8	10.6			
FM	(30°-60°)	3886.3	48.4			
FH	(60°-80°)	2398.0	29.8			G2/5000
FVH	(80°-90°)	47.9	0.6			G1/100
BL	(0°-30°)	212.3	2.6	B1/500		
BM	(30°-60°)	415.7	5.2	B1/1000		
BH	(60°-80°)	211.7	2.6	B1/500		G1/500
BVH	(80°-90°)	10.3	0.1			G1/100
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°	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1242.2	1252.3	1257.3	1259.0	1220.3	1203.4	1186.6	1147.8	1139.4	1117.5	1088.8
5°	1461.3	1474.8	1471.4	1464.7	1417.5	1363.5	1319.7	1247.2	1235.4	1183.2	1119.1
7.5°	1677.0	1688.8	1685.5	1660.2	1607.9	1532.1	1459.6	1353.4	1336.6	1252.3	1149.5
10°	1857.4	1867.5	1865.8	1840.5	1778.2	1685.5	1597.8	1456.2	1436.0	1316.3	1174.8
12.5°	2005.7	2019.2	2017.5	2000.6	1945.0	1843.9	1744.4	1574.2	1548.9	1393.9	1210.2
15°	2122.0	2138.8	2138.8	2132.1	2093.3	2009.1	1896.1	1704.0	1673.7	1483.2	1254.0
17.5°	2192.8	2206.3	2218.1	2229.9	2202.9	2138.8	2036.0	1833.8	1801.7	1570.8	1299.5
20°	2229.9	2243.3	2251.8	2277.0	2282.1	2250.1	2169.2	1961.9	1928.2	1670.3	1351.7
22.5°	2290.5	2302.3	2304.0	2325.9	2336.0	2344.5	2293.9	2088.3	2061.3	1779.8	1410.7
25°	2391.7	2405.1	2400.1	2410.2	2411.9	2422.0	2416.9	2233.2	2206.3	1904.6	1481.5
27.5°	2521.4	2538.3	2534.9	2524.8	2509.6	2501.2	2523.1	2379.9	2354.6	2029.3	1554.0
30°	2661.3	2681.6	2676.5	2656.3	2615.8	2580.4	2610.8	2518.1	2494.5	2157.4	1634.9
32.5°	2802.9	2826.5	2824.8	2791.1	2722.0	2661.3	2706.8	2647.8	2631.0	2295.6	1722.5
35°	2895.6	2925.9	2922.6	2902.3	2813.0	2760.8	2816.4	2781.0	2769.2	2464.1	1848.9
37.5°	3045.6	3077.6	3049.0	2998.4	2895.6	2868.6	2936.1	2931.0	2922.6	2642.8	1982.1
40°	3409.7	3456.9	3381.0	3173.7	3005.2	2981.6	3077.6	3097.9	3089.4	2819.8	2101.8
42.5°	3790.6	3861.4	3743.4	3456.9	3204.0	3118.1	3232.7	3261.4	3251.2	2971.5	2209.6
45°	4021.5	4051.8	3933.8	3711.4	3556.3	3283.3	3397.9	3445.1	3436.6	3153.5	2347.8
47.5°	4210.3	4198.5	4063.6	3913.6	3942.3	3515.9	3585.0	3677.7	3670.9	3354.1	2499.5
50°	4250.7	4223.7	4169.8	4075.4	4151.3	3751.8	3782.2	3942.3	3935.5	3576.5	2652.9
52.5°	3965.9	3930.5	4077.1	4156.3	4131.0	3923.7	3999.6	4232.2	4228.8	3817.5	2799.5
55°	3254.6	3226.0	3620.4	4029.9	4109.1	4045.1	4240.6	4533.9	4552.4	4073.7	2932.7
57.5°	2560.2	2529.9	2917.5	3713.1	4028.2	4156.3	4522.1	4879.4	4903.0	4351.8	3059.1
60°	2041.1	1995.6	2292.2	3214.2	3876.5	4242.3	4793.4	5258.6	5262.0	4606.3	3136.6
62.5°	1387.1	1336.6	1665.2	2582.1	3622.0	4255.8	5002.4	5585.6	5599.1	4796.8	3150.1
65°	842.7	800.6	1023.1	1886.0	3246.2	4141.2	5005.8	5826.6	5838.4	4884.4	3069.2
67.5°	488.8	471.9	584.9	1174.8	2622.6	3832.7	4795.1	5789.5	5811.4	4847.4	2885.5
70°	284.8	283.2	325.3	581.5	1850.6	3220.9	4324.9	5477.7	5509.7	4653.5	2604.0
72.5°	209.0	212.4	229.2	311.8	1071.9	2319.2	3662.5	4850.7	4899.6	4274.3	2202.9
75°	165.2	166.9	182.0	212.4	562.9	1311.3	2743.9	3893.4	3932.2	3598.4	1720.8
77.5°	123.0	126.4	138.2	150.0	261.2	601.7	1543.9	2398.4	2334.4	1975.4	830.9
80°	89.3	97.8	102.8	107.9	138.2	232.6	463.5	836.0	829.2	863.0	392.7
82.5°	57.3	64.0	69.1	72.5	82.6	111.2	138.2	187.1	202.3	335.4	156.7
85°	25.3	28.7	32.0	38.8	35.4	38.8	57.3	37.1	32.0	50.6	28.7
87.5°	0.0	0.0	5.1	8.4	6.7	3.4	10.1	6.7	5.1	5.1	5.1
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°	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1073.6	1055.1	1016.3	979.2	957.3	928.7	903.4	879.8	878.1	871.4	859.6
5°	1087.1	1051.7	979.2	910.1	857.9	802.3	755.1	718.0	704.5	694.4	680.9
7.5°	1100.6	1045.0	937.1	836.0	753.4	675.9	620.2	569.7	554.5	541.0	532.6
10°	1105.7	1033.2	888.2	753.4	645.5	562.9	504.0	466.9	453.4	446.6	441.6
12.5°	1120.8	1026.4	842.7	675.9	551.1	475.3	433.2	411.3	406.2	401.1	396.1
15°	1141.1	1026.4	797.2	600.0	477.0	416.3	391.0	375.9	372.5	370.8	367.4
17.5°	1163.0	1026.4	753.4	536.0	423.0	377.5	359.0	350.6	348.9	347.2	345.5
20°	1193.3	1028.1	706.2	480.4	384.3	348.9	333.7	323.6	321.9	320.2	320.2
22.5°	1223.6	1031.5	660.7	438.2	359.0	327.0	308.4	298.3	295.0	295.0	295.0
25°	1262.4	1041.6	618.6	402.8	337.1	306.8	283.2	274.7	273.0	273.0	271.4
27.5°	1307.9	1053.4	581.5	375.9	315.2	283.2	259.6	251.1	247.8	247.8	246.1
30°	1356.8	1065.2	551.1	355.6	293.3	259.6	237.6	227.5	224.2	225.9	224.2
32.5°	1410.7	1082.1	527.5	342.1	273.0	239.3	219.1	207.3	205.6	205.6	203.9
35°	1501.7	1129.3	524.2	335.4	256.2	224.2	203.9	192.1	190.5	190.5	188.8
37.5°	1599.5	1183.2	539.3	332.0	242.7	210.7	192.1	180.3	178.7	178.7	178.7
40°	1682.1	1223.6	556.2	332.0	234.3	198.9	182.0	171.9	171.9	171.9	171.9
42.5°	1737.7	1227.0	552.8	332.0	227.5	190.5	175.3	165.2	165.2	166.9	165.2
45°	1820.3	1243.9	539.3	327.0	222.5	183.7	168.5	160.1	158.4	160.1	160.1
47.5°	1918.0	1274.2	525.9	306.8	220.8	177.0	163.5	153.4	151.7	153.4	151.7
50°	2010.7	1301.2	519.1	279.8	217.4	170.2	156.7	146.6	144.9	146.6	144.9
52.5°	2088.3	1313.0	507.3	261.2	209.0	163.5	150.0	139.9	136.5	138.2	138.2
55°	2150.6	1309.6	490.5	246.1	193.8	156.7	141.6	133.2	128.1	128.1	126.4
57.5°	2207.9	1311.3	475.3	230.9	177.0	146.6	134.8	124.7	118.0	116.3	114.6
60°	2229.9	1302.9	448.3	210.7	160.1	138.2	126.4	114.6	107.9	106.2	104.5
62.5°	2199.5	1272.5	412.9	175.3	144.9	128.1	118.0	106.2	99.4	97.8	96.1
65°	2113.6	1215.2	359.0	138.2	131.5	116.3	107.9	99.4	91.0	87.6	86.0
67.5°	1966.9	1132.6	291.6	111.2	116.3	106.2	101.1	91.0	80.9	77.5	75.8
70°	1757.9	1023.1	219.1	94.4	102.8	94.4	91.0	80.9	72.5	69.1	67.4
72.5°	1464.7	846.1	153.4	80.9	89.3	82.6	79.2	72.5	64.0	59.0	59.0
75°	1107.3	606.8	101.1	69.1	74.2	70.8	65.7	60.7	55.6	52.2	50.6
77.5°	477.0	236.0	62.4	52.2	60.7	59.0	52.2	48.9	47.2	43.8	43.8
80°	205.6	96.1	38.8	38.8	43.8	42.1	40.5	37.1	37.1	35.4	33.7
82.5°	75.8	38.8	23.6	28.7	32.0	28.7	28.7	28.7	28.7	27.0	27.0
85°	18.5	11.8	11.8	16.9	18.5	16.9	18.5	16.9	16.9	16.9	15.2
87.5°	5.1	5.1	6.7	6.7	6.7	6.7	6.7	5.1	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)