

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: P800262

Luminaire Tested: **ARCH2-90-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800262
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: ARCH2-90-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA 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: 7969 lumens
Efficiency: N/A
Efficacy: 85.0 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): 93.7
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

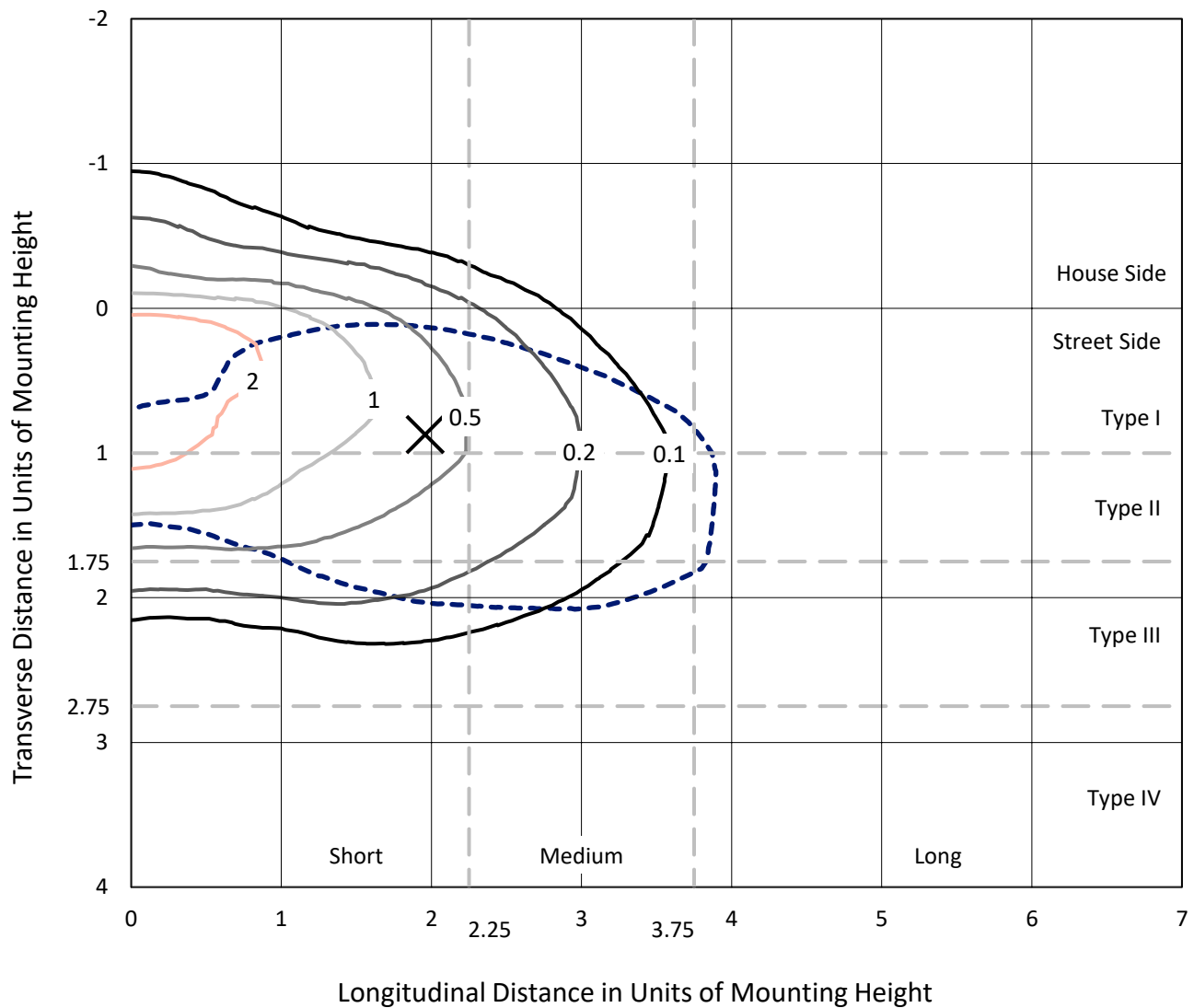


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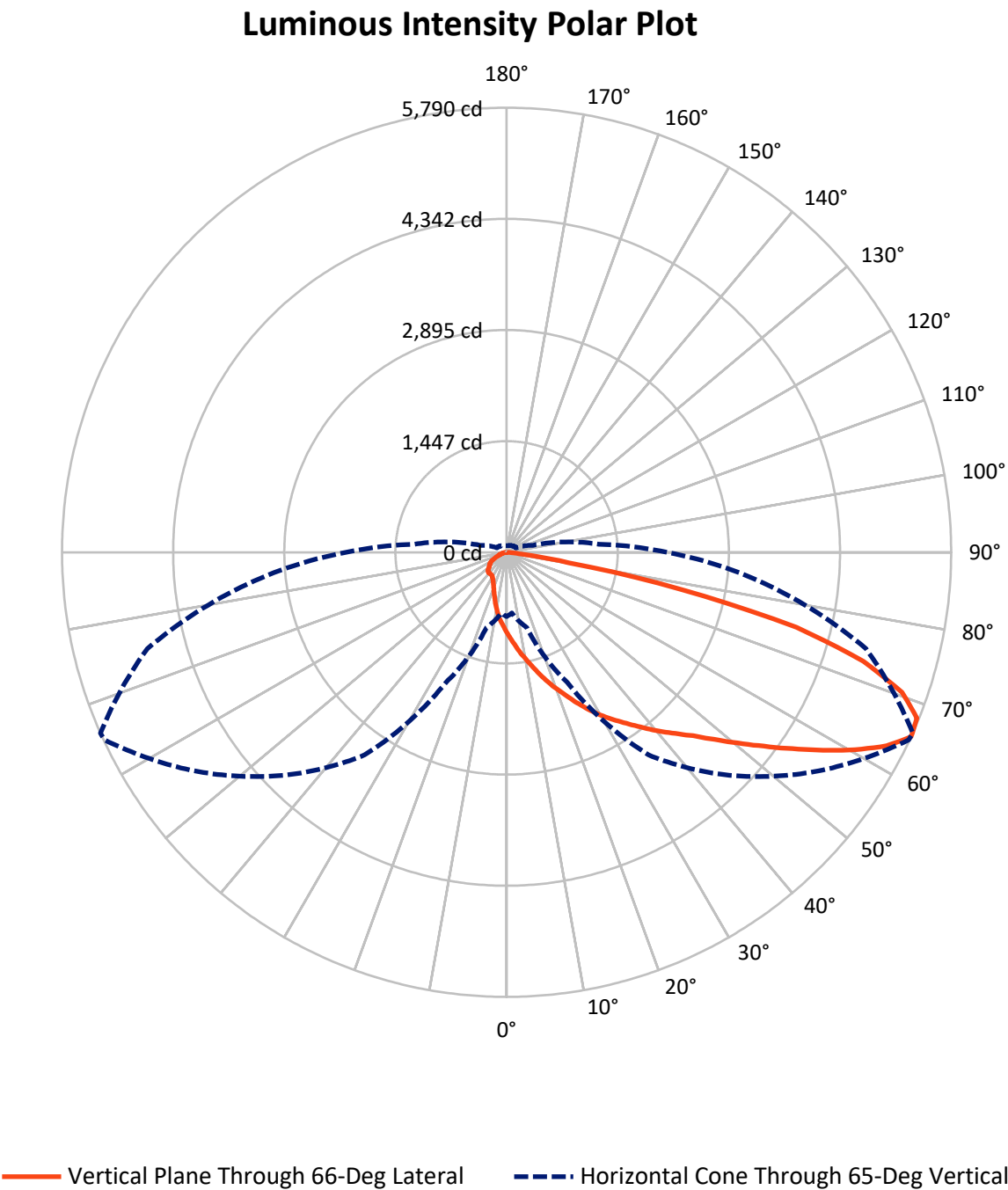
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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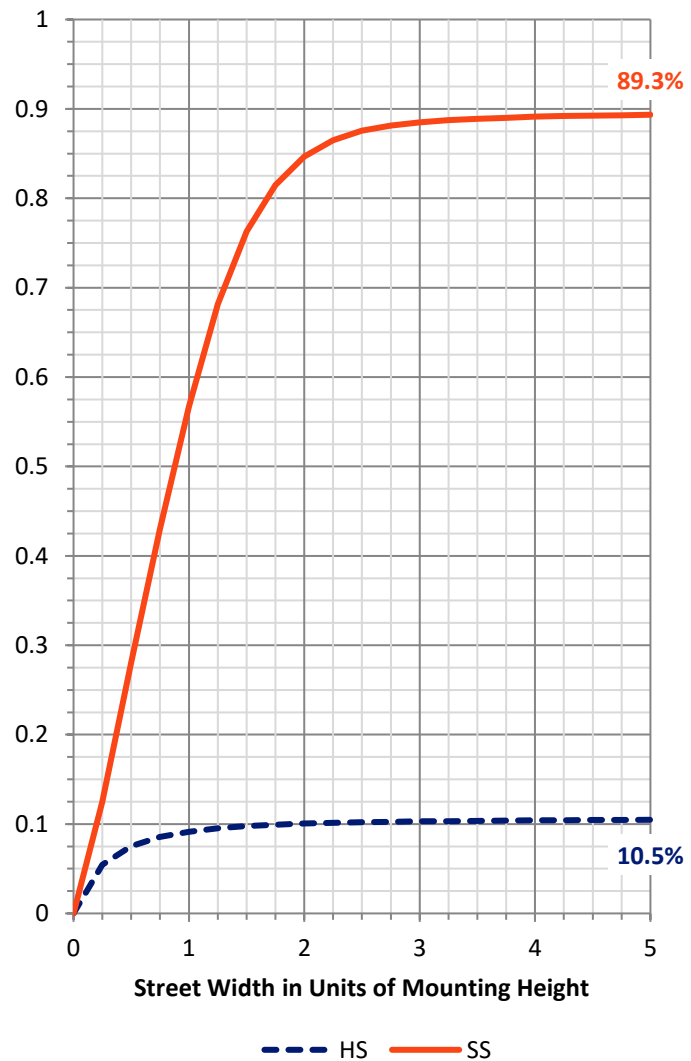
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.9	0.0	842.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7126.1	0.0	7126.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	7969.0	0.0	7969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.3
10°-20°	339.3	4.3
20°-30°	613.9	7.7
30°-40°	959.9	12.0
40°-50°	1456.2	18.3
50°-60°	1850.1	23.2
60°-70°	1728.7	21.7
70°-80°	859.2	10.8
80°-90°	57.7	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°	7969.0	100.0
0°-180°	7969.0	100.0

Coefficient of Utilization



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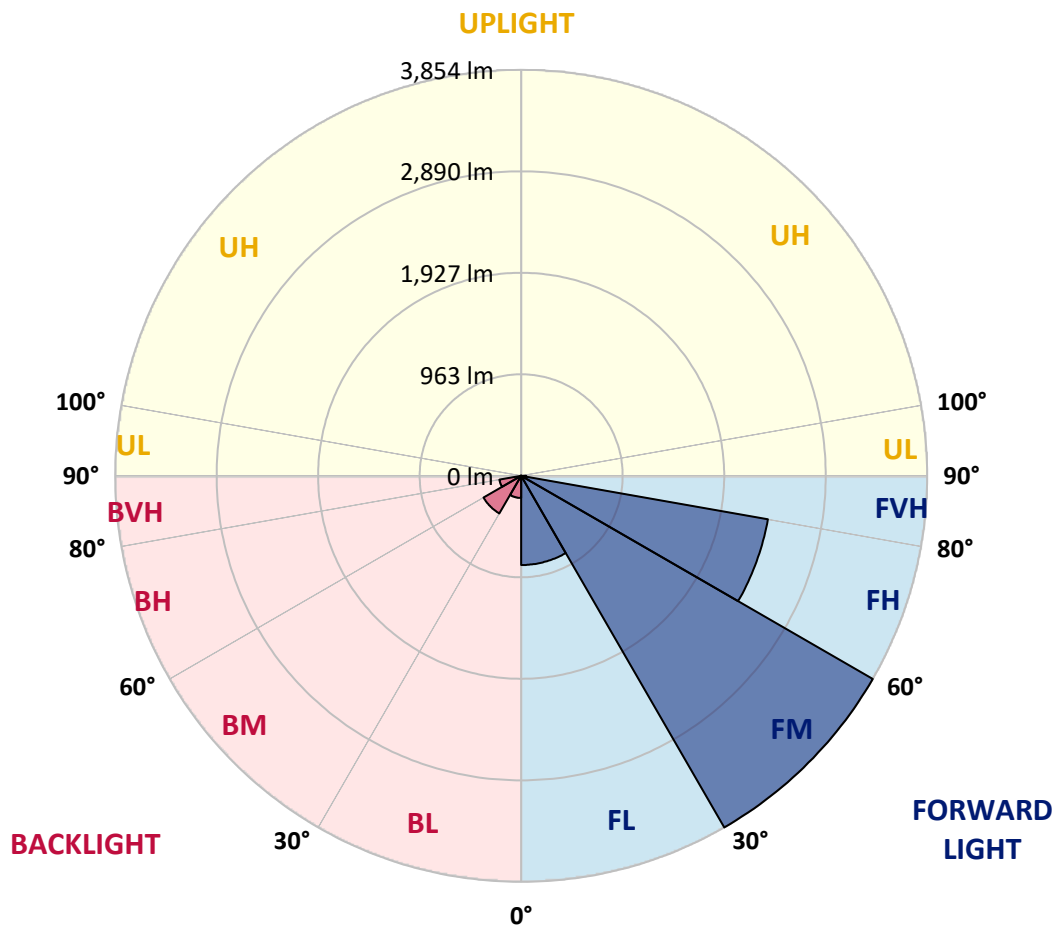
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.7	10.6			
FM	(30°-60°)	3853.9	48.4			
FH	(60°-80°)	2378.0	29.8			G2/5000
FVH	(80°-90°)	47.5	0.6			G1/100
BL	(0°-30°)	210.5	2.6	B1/500		
BM	(30°-60°)	412.3	5.2	B1/1000		
BH	(60°-80°)	209.9	2.6	B1/500		G1/500
BVH	(80°-90°)	10.2	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°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1231.8	1241.9	1246.9	1248.5	1210.1	1193.4	1176.7	1138.2	1129.9	1108.1	1079.7
5°	1449.1	1462.5	1459.1	1452.4	1405.6	1352.2	1308.7	1236.8	1225.1	1173.3	1109.8
7.5°	1663.0	1674.7	1671.4	1646.3	1594.5	1519.3	1447.4	1342.1	1325.4	1241.9	1139.9
10°	1841.9	1851.9	1850.2	1825.2	1763.3	1671.4	1584.5	1444.1	1424.0	1305.4	1165.0
12.5°	1989.0	2002.3	2000.7	1984.0	1928.8	1828.5	1729.9	1561.1	1536.0	1382.2	1200.1
15°	2104.3	2121.0	2121.0	2114.3	2075.9	1992.3	1880.3	1689.8	1659.7	1470.8	1243.5
17.5°	2174.5	2187.9	2199.6	2211.3	2184.5	2121.0	2019.1	1818.5	1786.7	1557.7	1288.6
20°	2211.3	2224.6	2233.0	2258.1	2263.1	2231.3	2151.1	1945.5	1912.1	1656.4	1340.5
22.5°	2271.4	2283.1	2284.8	2306.5	2316.6	2324.9	2274.8	2070.9	2044.1	1765.0	1399.0
25°	2371.7	2385.1	2380.1	2390.1	2391.8	2401.8	2396.8	2214.6	2187.9	1888.7	1469.2
27.5°	2500.4	2517.1	2513.8	2503.8	2488.7	2480.4	2502.1	2360.0	2334.9	2012.4	1541.0
30°	2639.1	2659.2	2654.2	2634.1	2594.0	2558.9	2589.0	2497.1	2473.7	2139.4	1621.3
32.5°	2779.5	2802.9	2801.3	2767.8	2699.3	2639.1	2684.3	2625.8	2609.1	2276.4	1708.2
35°	2871.5	2901.6	2898.2	2878.2	2789.6	2737.8	2792.9	2757.8	2746.1	2443.6	1833.5
37.5°	3020.2	3052.0	3023.6	2973.4	2871.5	2844.7	2911.6	2906.6	2898.2	2620.8	1965.6
40°	3381.2	3428.0	3352.8	3147.2	2980.1	2956.7	3052.0	3072.0	3063.7	2796.3	2084.2
42.5°	3759.0	3829.2	3712.2	3428.0	3177.3	3092.1	3205.7	3234.2	3224.1	2946.7	2191.2
45°	3988.0	4018.0	3901.0	3680.4	3526.7	3255.9	3369.5	3416.3	3408.0	3127.2	2328.3
47.5°	4175.2	4163.5	4029.7	3881.0	3909.4	3486.5	3555.1	3647.0	3640.3	3326.1	2478.7
50°	4215.3	4188.5	4135.0	4041.4	4116.7	3720.5	3750.6	3909.4	3902.7	3546.7	2630.8
52.5°	3932.8	3897.7	4043.1	4121.7	4096.6	3891.0	3966.2	4196.9	4193.5	3785.7	2776.2
55°	3227.5	3199.1	3590.2	3996.3	4074.9	4011.4	4205.2	4496.1	4514.5	4039.8	2908.2
57.5°	2538.9	2508.8	2893.2	3682.1	3994.6	4121.7	4484.4	4838.7	4862.1	4315.6	3033.6
60°	2024.1	1978.9	2273.1	3187.4	3844.2	4206.9	4753.5	5214.8	5218.1	4567.9	3110.5
62.5°	1375.6	1325.4	1651.3	2560.6	3591.8	4220.3	4960.7	5539.0	5552.4	4756.8	3123.8
65°	835.7	793.9	1014.5	1870.3	3219.1	4106.6	4964.1	5778.0	5789.7	4843.7	3043.6
67.5°	484.7	468.0	580.0	1165.0	2600.7	3800.8	4755.1	5741.3	5763.0	4806.9	2861.4
70°	282.5	280.8	322.6	576.6	1835.2	3194.0	4288.8	5432.1	5463.8	4614.7	2582.3
72.5°	207.3	210.6	227.3	309.2	1063.0	2299.8	3632.0	4810.3	4858.8	4238.7	2184.5
75°	163.8	165.5	180.5	210.6	558.2	1300.3	2721.0	3860.9	3899.4	3568.4	1706.5
77.5°	122.0	125.4	137.1	148.8	259.1	596.7	1531.0	2378.4	2314.9	1958.9	824.0
80°	88.6	96.9	102.0	107.0	137.1	230.7	459.6	829.0	822.3	855.8	389.4
82.5°	56.8	63.5	68.5	71.9	81.9	110.3	137.1	185.5	200.6	332.6	155.4
85°	25.1	28.4	31.8	38.4	35.1	38.4	56.8	36.8	31.8	50.1	28.4
87.5°	0.0	0.0	5.0	8.4	6.7	3.3	10.0	6.7	5.0	5.0	5.0
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°	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
2.5°	1064.7	1046.3	1007.9	971.1	949.4	920.9	895.9	872.5	870.8	864.1	852.4
5°	1078.1	1043.0	971.1	902.6	850.7	795.6	748.8	712.0	698.6	688.6	675.2
7.5°	1091.4	1036.3	929.3	829.0	747.1	670.2	615.1	564.9	549.9	536.5	528.2
10°	1096.4	1024.6	880.8	747.1	640.1	558.2	499.7	463.0	449.6	442.9	437.9
12.5°	1111.5	1017.9	835.7	670.2	546.5	471.3	429.5	407.8	402.8	397.8	392.8
15°	1131.5	1017.9	790.6	595.0	473.0	412.8	387.8	372.7	369.4	367.7	364.4
17.5°	1153.3	1017.9	747.1	531.5	419.5	374.4	356.0	347.7	346.0	344.3	342.6
20°	1183.4	1019.6	700.3	476.3	381.1	346.0	330.9	320.9	319.2	317.6	317.6
22.5°	1213.4	1022.9	655.2	434.6	356.0	324.3	305.9	295.8	292.5	292.5	292.5
25°	1251.9	1032.9	613.4	399.5	334.3	304.2	280.8	272.4	270.8	270.8	269.1
27.5°	1297.0	1044.6	576.6	372.7	312.6	280.8	257.4	249.0	245.7	245.7	244.0
30°	1345.5	1056.3	546.5	352.7	290.8	257.4	235.7	225.6	222.3	224.0	222.3
32.5°	1399.0	1073.0	523.1	339.3	270.8	237.3	217.3	205.6	203.9	203.9	202.2
35°	1489.2	1119.8	519.8	332.6	254.1	222.3	202.2	190.5	188.9	188.9	187.2
37.5°	1586.2	1173.3	534.8	329.3	240.7	208.9	190.5	178.8	177.2	177.2	177.2
40°	1668.1	1213.4	551.6	329.3	232.3	197.2	180.5	170.5	170.5	170.5	170.5
42.5°	1723.2	1216.8	548.2	329.3	225.6	188.9	173.8	163.8	163.8	165.5	163.8
45°	1805.1	1233.5	534.8	324.3	220.6	182.2	167.1	158.8	157.1	158.8	158.8
47.5°	1902.1	1263.6	521.5	304.2	219.0	175.5	162.1	152.1	150.4	152.1	150.4
50°	1994.0	1290.3	514.8	277.5	215.6	168.8	155.4	145.4	143.7	145.4	143.7
52.5°	2070.9	1302.0	503.1	259.1	207.3	162.1	148.8	138.7	135.4	137.1	137.1
55°	2132.7	1298.7	486.4	244.0	192.2	155.4	140.4	132.0	127.0	127.0	125.4
57.5°	2189.5	1300.3	471.3	229.0	175.5	145.4	133.7	123.7	117.0	115.3	113.7
60°	2211.3	1292.0	444.6	208.9	158.8	137.1	125.4	113.7	107.0	105.3	103.6
62.5°	2181.2	1261.9	409.5	173.8	143.7	127.0	117.0	105.3	98.6	96.9	95.3
65°	2095.9	1205.1	356.0	137.1	130.4	115.3	107.0	98.6	90.3	86.9	85.2
67.5°	1950.5	1123.2	289.2	110.3	115.3	105.3	100.3	90.3	80.2	76.9	75.2
70°	1743.3	1014.5	217.3	93.6	102.0	93.6	90.3	80.2	71.9	68.5	66.9
72.5°	1452.4	839.0	152.1	80.2	88.6	81.9	78.6	71.9	63.5	58.5	58.5
75°	1098.1	601.7	100.3	68.5	73.5	70.2	65.2	60.2	55.2	51.8	50.1
77.5°	473.0	234.0	61.8	51.8	60.2	58.5	51.8	48.5	46.8	43.5	43.5
80°	203.9	95.3	38.4	38.4	43.5	41.8	40.1	36.8	36.8	35.1	33.4
82.5°	75.2	38.4	23.4	28.4	31.8	28.4	28.4	28.4	28.4	26.7	26.7
85°	18.4	11.7	11.7	16.7	18.4	16.7	18.4	16.7	16.7	16.7	15.0
87.5°	5.0	5.0	6.7	6.7	6.7	6.7	6.7	5.0	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)