

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: P800150

Luminaire Tested: **ARCH2-80-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800150
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: ARCH2-80-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 7654 lumens
Efficiency: N/A
Efficacy: 90.8 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

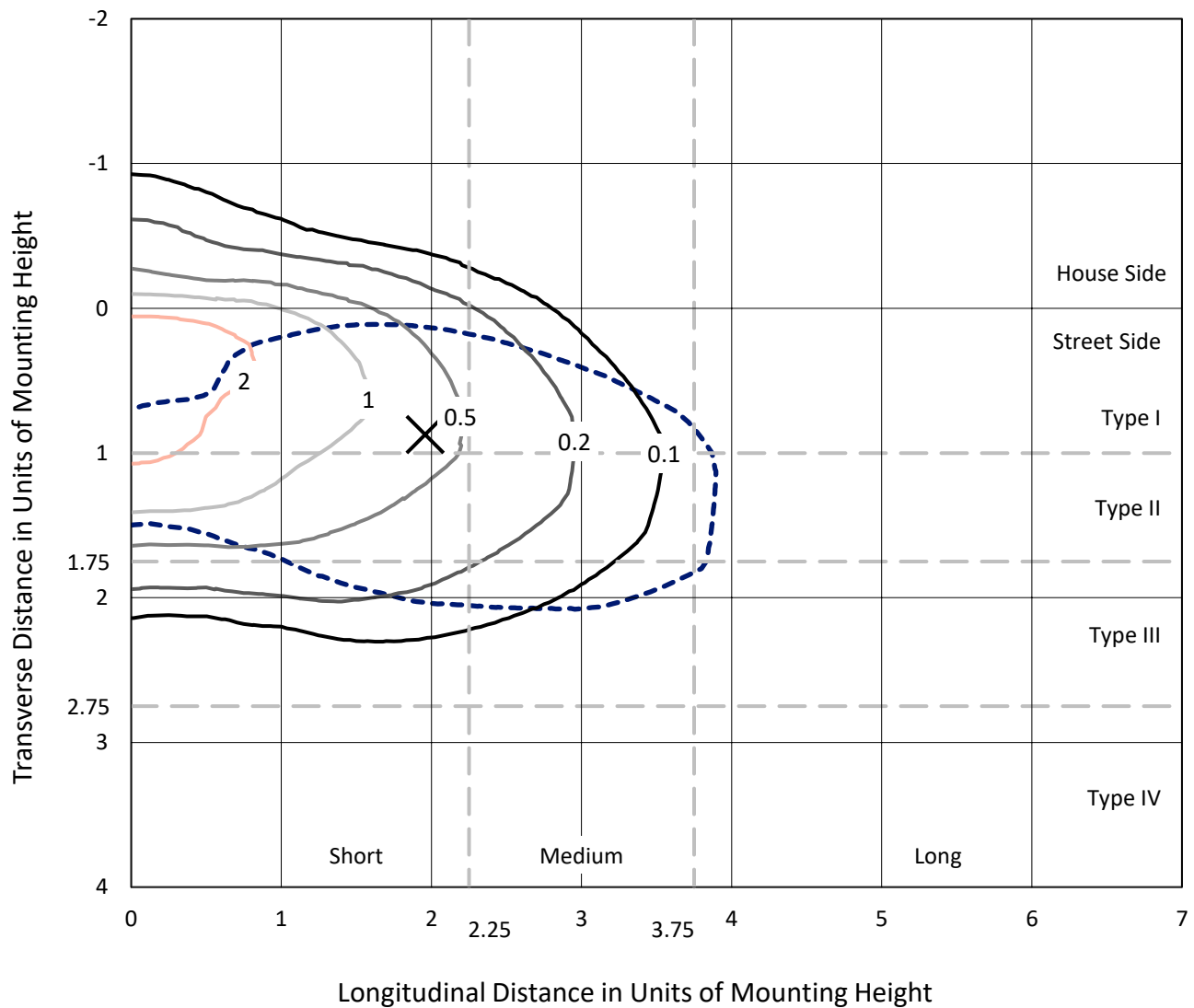


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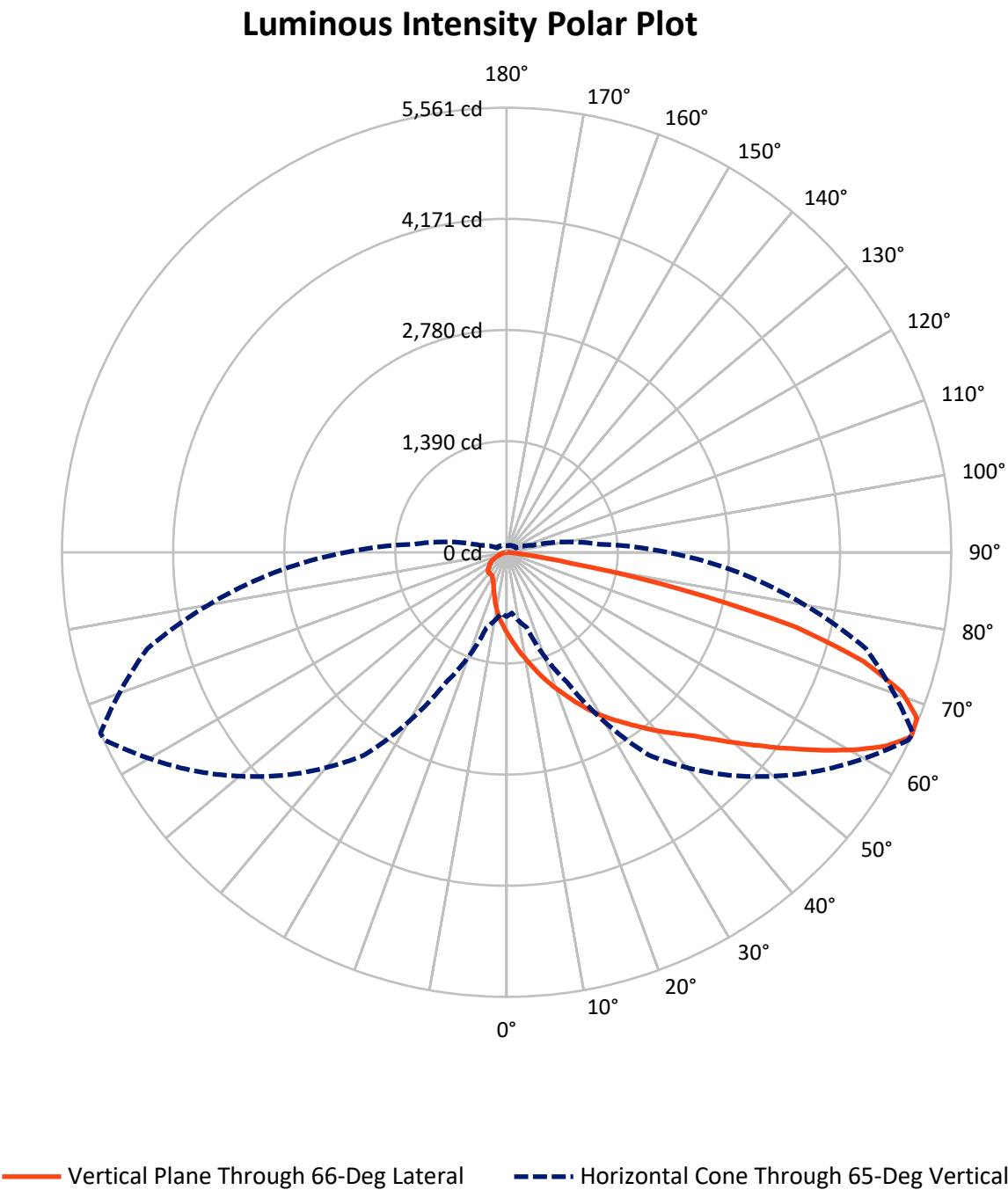
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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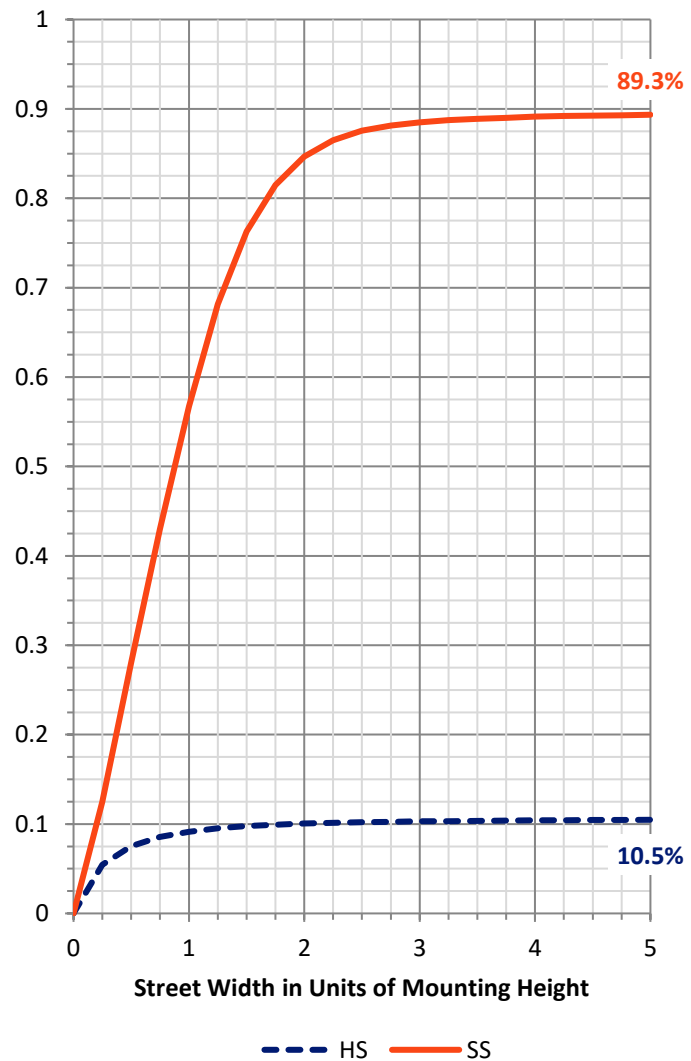
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.6	0.0	809.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6844.4	0.0	6844.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	7654.0	0.0	7654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.3
10°-20°	325.9	4.3
20°-30°	589.6	7.7
30°-40°	922.0	12.0
40°-50°	1398.6	18.3
50°-60°	1777.0	23.2
60°-70°	1660.4	21.7
70°-80°	825.2	10.8
80°-90°	55.4	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°	7654.0	100.0
0°-180°	7654.0	100.0

Coefficient of Utilization



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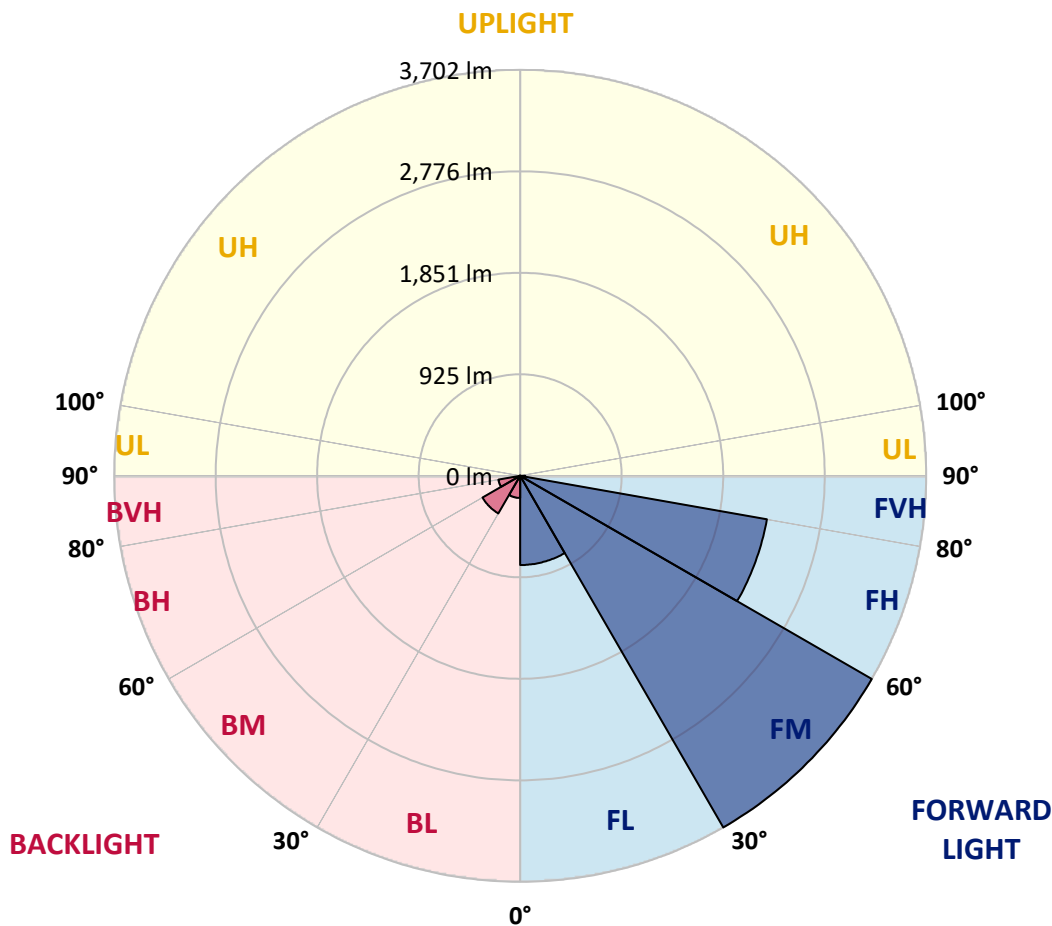
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.2	10.6			
FM	(30°-60°)	3701.6	48.4			
FH	(60°-80°)	2284.0	29.8			G2/5000
FVH	(80°-90°)	45.6	0.6			G1/100
BL	(0°-30°)	202.2	2.6	B1/500		
BM	(30°-60°)	396.0	5.2	B1/1000		
BH	(60°-80°)	201.6	2.6	B1/500		G1/500
BVH	(80°-90°)	9.8	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°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1183.1	1192.8	1197.6	1199.2	1162.3	1146.2	1130.2	1093.2	1085.2	1064.3	1037.0
5°	1391.8	1404.7	1401.5	1395.0	1350.1	1298.7	1257.0	1187.9	1176.7	1126.9	1065.9
7.5°	1597.3	1608.5	1605.3	1581.3	1531.5	1459.2	1390.2	1289.1	1273.0	1192.8	1094.8
10°	1769.1	1778.7	1777.1	1753.0	1693.6	1605.3	1521.9	1387.0	1367.7	1253.8	1118.9
12.5°	1910.3	1923.2	1921.6	1905.5	1852.6	1756.2	1661.5	1499.4	1475.3	1327.6	1152.6
15°	2021.1	2037.2	2037.2	2030.7	1993.8	1913.6	1806.0	1623.0	1594.1	1412.7	1194.4
17.5°	2088.5	2101.4	2112.6	2123.9	2098.2	2037.2	1939.2	1746.6	1716.1	1496.2	1237.7
20°	2123.9	2136.7	2144.7	2168.8	2173.6	2143.1	2066.1	1868.6	1836.5	1590.9	1287.5
22.5°	2181.6	2192.9	2194.5	2215.4	2225.0	2233.0	2184.9	1989.0	1963.3	1695.2	1343.7
25°	2278.0	2290.8	2286.0	2295.6	2297.2	2306.9	2302.0	2127.1	2101.4	1814.0	1411.1
27.5°	2401.6	2417.6	2414.4	2404.8	2390.3	2382.3	2403.2	2266.7	2242.6	1932.8	1480.1
30°	2534.8	2554.1	2549.3	2530.0	2491.5	2457.8	2486.7	2398.4	2375.9	2054.8	1557.2
32.5°	2669.7	2692.1	2690.5	2658.4	2592.6	2534.8	2578.2	2522.0	2505.9	2186.5	1640.6
35°	2758.0	2786.9	2783.6	2764.4	2679.3	2629.5	2682.5	2648.8	2637.6	2347.0	1761.0
37.5°	2900.8	2931.3	2904.0	2855.9	2758.0	2732.3	2796.5	2791.7	2783.6	2517.2	1887.9
40°	3247.6	3292.5	3220.3	3022.8	2862.3	2839.8	2931.3	2950.6	2942.6	2685.7	2001.8
42.5°	3610.4	3677.8	3565.4	3292.5	3051.7	2969.9	3079.0	3106.3	3096.7	2830.2	2104.6
45°	3830.3	3859.2	3746.8	3534.9	3387.3	3127.2	3236.4	3281.3	3273.3	3003.6	2236.2
47.5°	4010.1	3998.9	3870.5	3727.6	3754.9	3348.7	3414.5	3502.8	3496.4	3194.6	2380.7
50°	4048.6	4023.0	3971.6	3881.7	3953.9	3573.5	3602.4	3754.9	3748.5	3406.5	2526.8
52.5°	3777.3	3743.6	3883.3	3958.8	3934.7	3737.2	3809.5	4031.0	4027.8	3636.1	2666.5
55°	3099.9	3072.6	3448.3	3838.4	3913.8	3852.8	4039.0	4318.3	4336.0	3880.1	2793.3
57.5°	2438.5	2409.6	2778.8	3536.5	3836.7	3958.8	4307.1	4647.4	4669.9	4145.0	2913.7
60°	1944.1	1900.7	2183.3	3061.4	3692.3	4040.6	4565.6	5008.6	5011.8	4387.4	2987.5
62.5°	1321.2	1273.0	1586.1	2459.4	3449.9	4053.5	4764.6	5320.1	5332.9	4568.8	3000.4
65°	802.7	762.5	974.4	1796.4	3091.9	3944.3	4767.8	5549.6	5560.9	4652.3	2923.3
67.5°	465.5	449.5	557.1	1118.9	2497.9	3650.5	4567.2	5514.3	5535.2	4616.9	2748.3
70°	271.3	269.7	309.8	553.8	1762.7	3067.8	4119.3	5217.3	5247.8	4432.3	2480.2
72.5°	199.1	202.3	218.3	297.0	1021.0	2208.9	3488.4	4620.1	4666.7	4071.1	2098.2
75°	157.3	158.9	173.4	202.3	536.2	1248.9	2613.5	3708.3	3745.2	3427.4	1639.0
77.5°	117.2	120.4	131.6	142.9	248.8	573.1	1470.5	2284.4	2223.4	1881.4	791.4
80°	85.1	93.1	97.9	102.7	131.6	221.5	441.5	796.2	789.8	821.9	374.0
82.5°	54.6	61.0	65.8	69.0	78.7	106.0	131.6	178.2	192.6	319.5	149.3
85°	24.1	27.3	30.5	36.9	33.7	36.9	54.6	35.3	30.5	48.2	27.3
87.5°	0.0	0.0	4.8	8.0	6.4	3.2	9.6	6.4	4.8	4.8	4.8
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°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1022.6	1004.9	968.0	932.7	911.8	884.5	860.5	838.0	836.4	830.0	818.7
5°	1035.4	1001.7	932.7	866.9	817.1	764.1	719.2	683.9	671.0	661.4	648.6
7.5°	1048.3	995.3	892.6	796.2	717.6	643.7	590.8	542.6	528.2	515.3	507.3
10°	1053.1	984.1	846.0	717.6	614.8	536.2	480.0	444.7	431.8	425.4	420.6
12.5°	1067.5	977.6	802.7	643.7	524.9	452.7	412.6	391.7	386.9	382.1	377.3
15°	1086.8	977.6	759.3	571.5	454.3	396.5	372.4	358.0	354.8	353.2	350.0
17.5°	1107.7	977.6	717.6	510.5	402.9	359.6	341.9	333.9	332.3	330.7	329.1
20°	1136.6	979.3	672.6	457.5	366.0	332.3	317.9	308.2	306.6	305.0	305.0
22.5°	1165.5	982.5	629.3	417.4	341.9	311.4	293.8	284.1	280.9	280.9	280.9
25°	1202.4	992.1	589.2	383.7	321.1	292.2	269.7	261.7	260.1	260.1	258.5
27.5°	1245.7	1003.3	553.8	358.0	300.2	269.7	247.2	239.2	236.0	236.0	234.4
30°	1292.3	1014.6	524.9	338.7	279.3	247.2	226.4	216.7	213.5	215.1	213.5
32.5°	1343.7	1030.6	502.5	325.9	260.1	228.0	208.7	197.5	195.9	195.9	194.2
35°	1430.4	1075.6	499.3	319.5	244.0	213.5	194.2	183.0	181.4	181.4	179.8
37.5°	1523.5	1126.9	513.7	316.3	231.2	200.7	183.0	171.8	170.2	170.2	170.2
40°	1602.1	1165.5	529.8	316.3	223.1	189.4	173.4	163.7	163.7	163.7	163.7
42.5°	1655.1	1168.7	526.5	316.3	216.7	181.4	167.0	157.3	157.3	158.9	157.3
45°	1733.8	1184.7	513.7	311.4	211.9	175.0	160.5	152.5	150.9	152.5	152.5
47.5°	1826.9	1213.6	500.9	292.2	210.3	168.6	155.7	146.1	144.5	146.1	144.5
50°	1915.2	1239.3	494.4	266.5	207.1	162.1	149.3	139.7	138.1	139.7	138.1
52.5°	1989.0	1250.6	483.2	248.8	199.1	155.7	142.9	133.2	130.0	131.6	131.6
55°	2048.4	1247.3	467.2	234.4	184.6	149.3	134.8	126.8	122.0	122.0	120.4
57.5°	2103.0	1248.9	452.7	219.9	168.6	139.7	128.4	118.8	112.4	110.8	109.2
60°	2123.9	1240.9	427.0	200.7	152.5	131.6	120.4	109.2	102.7	101.1	99.5
62.5°	2095.0	1212.0	393.3	167.0	138.1	122.0	112.4	101.1	94.7	93.1	91.5
65°	2013.1	1157.4	341.9	131.6	125.2	110.8	102.7	94.7	86.7	83.5	81.9
67.5°	1873.4	1078.8	277.7	106.0	110.8	101.1	96.3	86.7	77.1	73.8	72.2
70°	1674.4	974.4	208.7	89.9	97.9	89.9	86.7	77.1	69.0	65.8	64.2
72.5°	1395.0	805.9	146.1	77.1	85.1	78.7	75.5	69.0	61.0	56.2	56.2
75°	1054.7	577.9	96.3	65.8	70.6	67.4	62.6	57.8	53.0	49.8	48.2
77.5°	454.3	224.7	59.4	49.8	57.8	56.2	49.8	46.6	44.9	41.7	41.7
80°	195.9	91.5	36.9	36.9	41.7	40.1	38.5	35.3	35.3	33.7	32.1
82.5°	72.2	36.9	22.5	27.3	30.5	27.3	27.3	27.3	27.3	25.7	25.7
85°	17.7	11.2	11.2	16.1	17.7	16.1	17.7	16.1	16.1	16.1	14.4
87.5°	4.8	4.8	6.4	6.4	6.4	6.4	6.4	4.8	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)