

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: P799874

Luminaire Tested: **ARCH2-60-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799874
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: ARCH2-60-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA 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: 6102 lumens
Efficiency: N/A
Efficacy: 95.6 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): 63.8
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

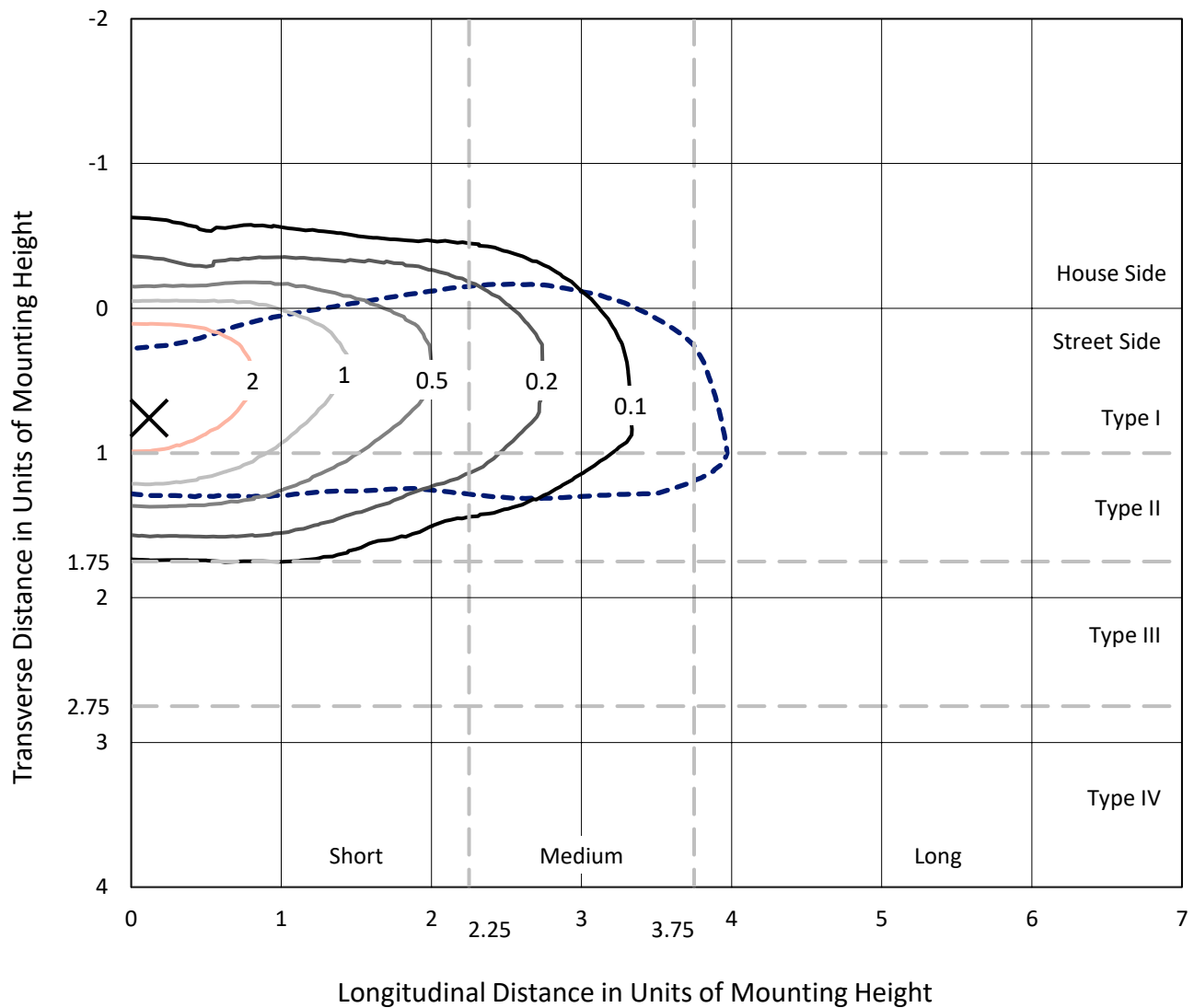


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

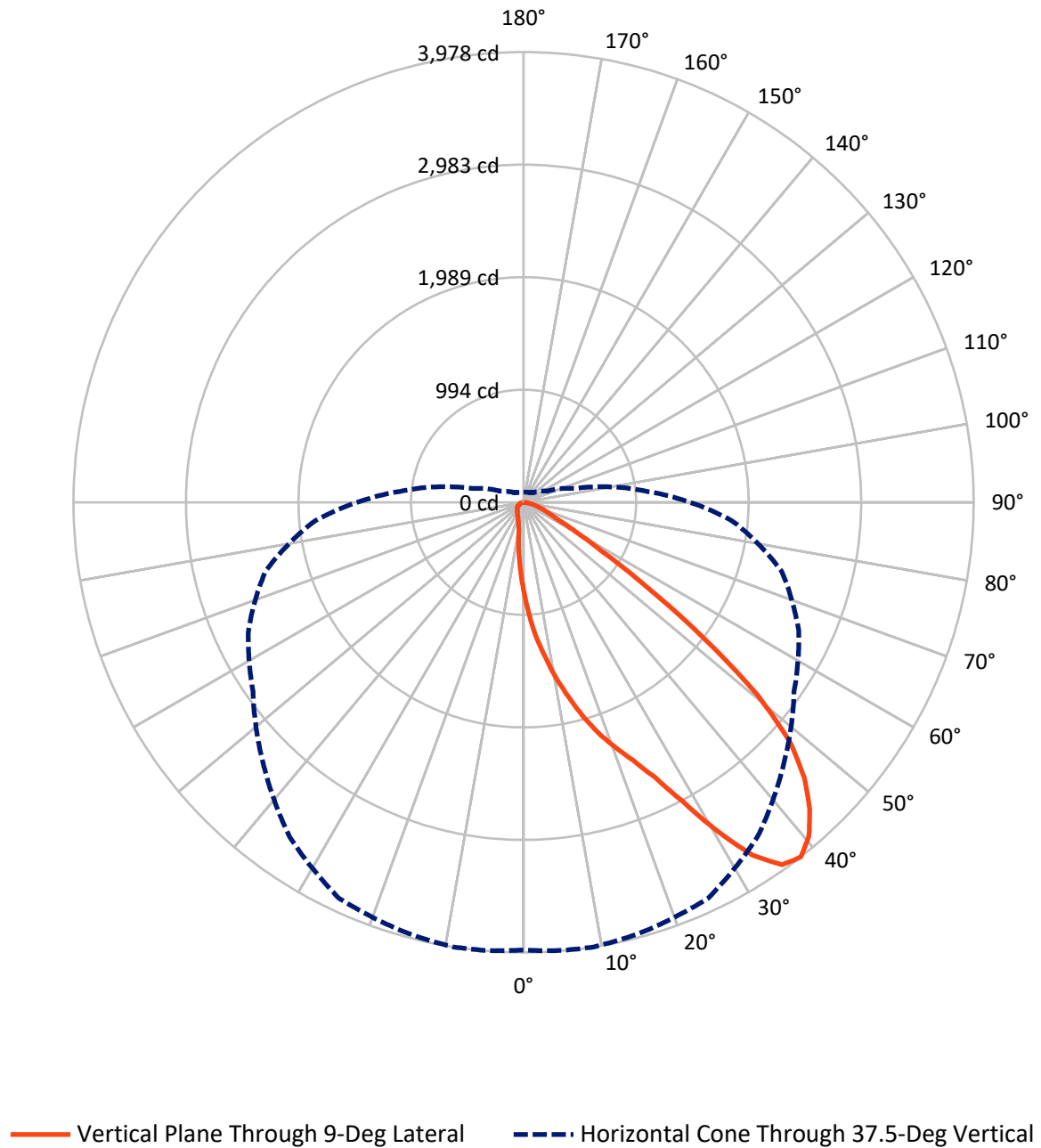


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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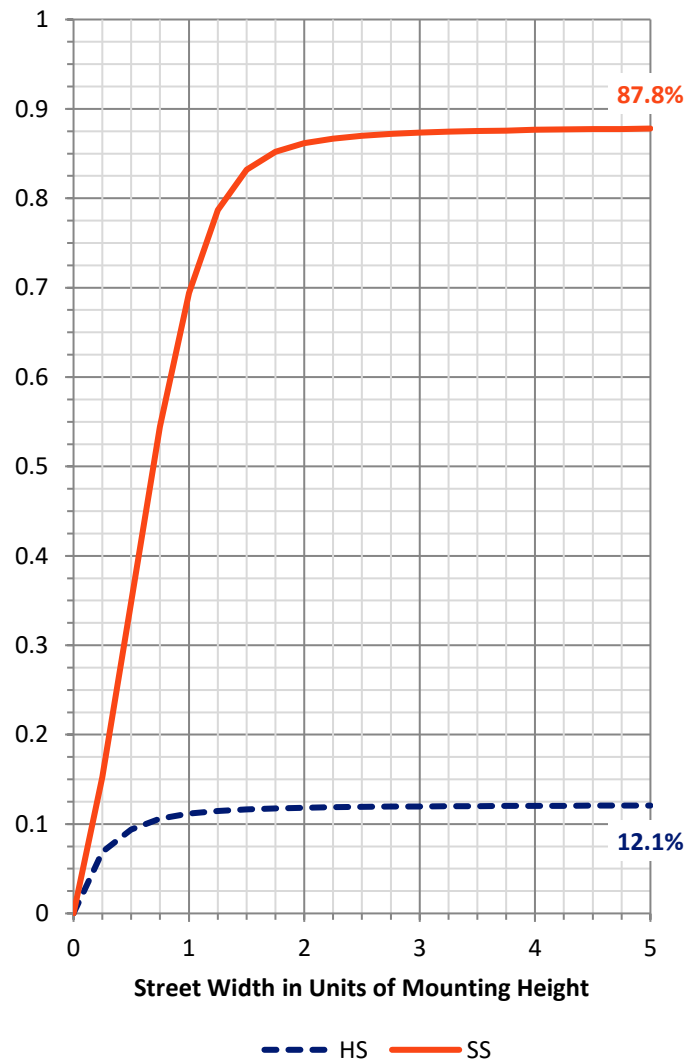
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.1	0.0	742.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5359.9	0.0	5359.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	6102.0	0.0	6102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	1.3
10°-20°	281.8	4.6
20°-30°	579.0	9.5
30°-40°	1023.5	16.8
40°-50°	1359.6	22.3
50°-60°	1289.5	21.1
60°-70°	983.8	16.1
70°-80°	476.9	7.8
80°-90°	26.9	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°	6102.0	100.0
0°-180°	6102.0	100.0

Coefficient of Utilization



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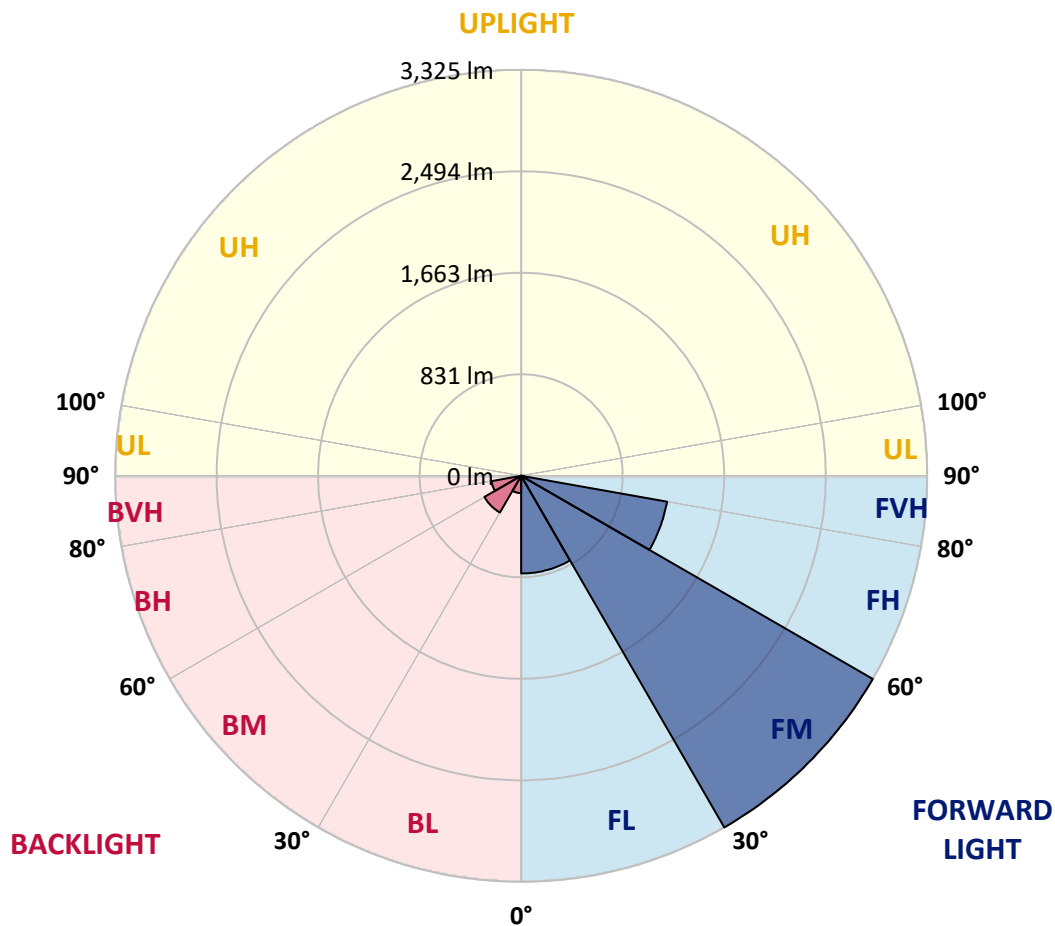
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.3	13.1			
FM	(30°-60°)	3325.3	54.5			
FH	(60°-80°)	1213.1	19.9			G1/1800
FVH	(80°-90°)	21.3	0.3			G1/100
BL	(0°-30°)	141.6	2.3	B1/500		
BM	(30°-60°)	347.3	5.7	B1/1000		
BH	(60°-80°)	247.6	4.1	B1/500		G1/500
BVH	(80°-90°)	5.6	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	999.5	982.0	1002.0	999.5	982.0	970.7	935.6	924.3	883.0	853.0	826.7
5°	1204.9	1187.4	1204.9	1199.9	1174.8	1147.3	1089.7	1052.1	978.2	913.1	854.2
7.5°	1375.2	1375.2	1382.8	1384.0	1354.0	1311.4	1240.0	1183.6	1079.7	979.5	885.5
10°	1559.4	1560.6	1576.9	1565.6	1525.5	1467.9	1377.8	1306.4	1181.1	1049.6	915.6
12.5°	1756.0	1757.3	1762.3	1757.3	1709.7	1635.8	1526.8	1432.9	1288.8	1129.8	956.9
15°	1952.6	1953.9	1960.2	1951.4	1898.8	1812.4	1688.4	1573.1	1402.8	1219.9	1007.0
17.5°	2136.8	2139.3	2144.3	2133.0	2077.9	1975.2	1848.7	1709.7	1524.3	1316.4	1063.4
20°	2302.1	2304.6	2308.4	2293.3	2238.2	2135.5	1999.0	1853.7	1648.3	1415.3	1124.7
22.5°	2468.7	2471.2	2477.4	2457.4	2396.0	2278.3	2144.3	1994.0	1779.8	1524.3	1196.1
25°	2681.6	2684.1	2689.1	2660.3	2576.4	2438.6	2297.1	2143.0	1922.6	1647.0	1283.8
27.5°	2993.5	2991.0	2991.0	2938.4	2794.3	2615.2	2451.1	2294.6	2076.6	1778.6	1380.3
30°	3379.2	3373.0	3369.2	3297.8	3092.4	2814.4	2609.0	2436.1	2224.4	1917.6	1484.2
32.5°	3724.9	3724.9	3717.4	3642.3	3424.3	3082.4	2776.8	2573.9	2367.2	2057.9	1591.9
35°	3929.1	3937.9	3934.1	3877.7	3718.7	3370.5	3003.5	2739.2	2517.5	2204.4	1720.9
37.5°	3956.7	3974.2	3977.9	3944.1	3860.2	3606.0	3255.2	2918.3	2682.9	2362.2	1846.2
40°	3845.2	3882.8	3882.8	3877.7	3847.7	3717.4	3466.9	3126.2	2853.2	2526.3	1972.7
42.5°	3673.6	3712.4	3707.4	3726.2	3718.7	3691.1	3585.9	3320.4	3023.5	2695.4	2087.9
45°	3449.4	3489.5	3479.4	3513.3	3528.3	3558.4	3573.4	3455.6	3191.4	2879.5	2216.9
47.5°	3089.9	3157.6	3172.6	3232.7	3295.3	3389.3	3460.7	3504.5	3347.9	3077.4	2357.2
50°	2558.9	2654.0	2684.1	2810.6	2982.2	3176.3	3291.6	3444.4	3458.2	3280.3	2508.8
52.5°	1832.4	1942.6	1989.0	2196.9	2550.1	2888.3	3096.2	3311.6	3500.7	3474.4	2672.8
55°	1184.9	1278.8	1323.9	1519.3	1989.0	2520.0	2865.7	3140.0	3476.9	3652.3	2860.7
57.5°	730.2	784.1	814.1	982.0	1414.1	2047.8	2563.9	2982.2	3404.3	3806.4	3056.1
60°	492.2	523.5	538.6	617.5	960.7	1530.6	2149.3	2816.9	3309.1	3910.3	3234.0
62.5°	326.9	336.9	352.0	400.8	633.8	1074.6	1650.8	2521.3	3237.7	3916.6	3365.5
65°	253.0	258.0	264.3	285.6	390.8	751.5	1161.1	2042.8	3131.3	3783.8	3406.8
67.5°	199.1	204.2	211.7	222.9	283.1	509.8	790.3	1496.7	2913.3	3575.9	3339.2
70°	156.6	160.3	165.3	175.4	220.4	369.5	522.3	994.5	2473.7	3378.0	3126.2
72.5°	124.0	127.8	132.8	142.8	179.1	270.5	358.2	620.0	1907.6	3136.3	2716.7
75°	97.7	100.2	104.0	114.0	144.0	210.4	243.0	370.7	1296.3	2694.1	2116.7
77.5°	48.8	60.1	68.9	78.9	105.2	145.3	161.6	205.4	547.3	1382.8	1009.5
80°	28.8	35.1	37.6	43.8	68.9	87.7	87.7	82.7	172.8	531.1	412.1
82.5°	16.3	22.5	23.8	25.1	41.3	50.1	40.1	30.1	35.1	177.9	120.2
85°	5.0	7.5	8.8	10.0	13.8	15.0	13.8	12.5	10.0	17.5	11.3
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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	811.6	795.3	764.0	735.2	707.7	687.6	668.8	651.3	638.8	628.8	627.5
5°	822.9	790.3	730.2	673.8	622.5	579.9	543.6	514.8	493.5	478.5	477.2
7.5°	837.9	787.8	696.4	612.5	536.1	474.7	422.1	383.3	355.7	344.4	335.7
10°	850.4	785.3	662.6	551.1	450.9	373.2	310.6	271.8	251.8	244.2	240.5
12.5°	871.7	787.8	633.8	494.7	377.0	285.6	238.0	216.7	207.9	201.7	200.4
15°	903.1	799.1	606.2	439.6	301.9	230.5	202.9	189.1	180.4	179.1	177.9
17.5°	934.4	809.1	581.2	383.3	250.5	200.4	181.6	170.3	164.1	162.8	162.8
20°	970.7	821.6	553.6	329.4	214.2	180.4	165.3	156.6	149.0	147.8	147.8
22.5°	1013.3	839.2	527.3	281.8	190.4	165.3	152.8	142.8	136.5	135.3	135.3
25°	1070.9	865.5	506.0	246.7	174.1	152.8	141.5	132.8	127.8	125.3	125.3
27.5°	1134.8	901.8	491.0	225.5	162.8	142.8	131.5	124.0	119.0	116.5	116.5
30°	1206.2	941.9	481.0	216.7	156.6	134.0	124.0	116.5	110.2	109.0	109.0
32.5°	1285.1	988.2	474.7	217.9	155.3	127.8	116.5	109.0	104.0	101.5	101.5
35°	1372.7	1039.6	470.9	225.5	157.8	122.7	110.2	102.7	97.7	95.2	95.2
37.5°	1470.4	1099.7	470.9	233.0	164.1	121.5	104.0	96.4	92.7	90.2	90.2
40°	1561.9	1163.6	476.0	241.7	170.3	121.5	98.9	92.7	87.7	85.2	85.2
42.5°	1633.3	1199.9	479.7	250.5	174.1	120.2	93.9	87.7	83.9	81.4	81.4
45°	1714.7	1238.7	472.2	254.3	174.1	117.7	90.2	83.9	80.2	77.7	77.7
47.5°	1804.9	1286.3	470.9	256.8	170.3	112.7	86.4	80.2	77.7	75.2	75.2
50°	1896.3	1338.9	473.4	255.5	165.3	105.2	81.4	77.7	73.9	71.4	71.4
52.5°	2000.2	1394.0	478.5	253.0	154.1	96.4	77.7	73.9	70.1	67.6	66.4
55°	2115.5	1454.2	488.5	248.0	139.0	87.7	73.9	70.1	65.1	62.6	61.4
57.5°	2248.2	1528.1	499.7	238.0	122.7	80.2	70.1	65.1	57.6	53.9	52.6
60°	2374.7	1612.0	512.3	214.2	106.5	72.6	66.4	58.9	51.4	48.8	47.6
62.5°	2493.7	1694.6	518.5	171.6	90.2	66.4	62.6	53.9	46.3	43.8	42.6
65°	2570.1	1784.8	504.8	116.5	73.9	61.4	57.6	50.1	42.6	38.8	38.8
67.5°	2575.1	1827.4	457.2	76.4	60.1	55.1	52.6	45.1	37.6	35.1	33.8
70°	2448.6	1763.5	349.4	60.1	50.1	47.6	47.6	40.1	32.6	30.1	28.8
72.5°	2158.1	1561.9	222.9	48.8	42.6	40.1	40.1	33.8	28.8	25.1	23.8
75°	1703.4	1204.9	119.0	40.1	35.1	33.8	31.3	27.6	23.8	21.3	20.0
77.5°	782.8	531.1	55.1	28.8	26.3	26.3	23.8	20.0	18.8	16.3	16.3
80°	309.4	180.4	27.6	18.8	17.5	17.5	17.5	13.8	13.8	11.3	10.0
82.5°	85.2	37.6	13.8	11.3	11.3	11.3	10.0	8.8	8.8	7.5	7.5
85°	8.8	6.3	6.3	6.3	6.3	5.0	5.0	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)