

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: P800242

Luminaire Tested: **ARCH2-90-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800242
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: ARCH2-90-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA 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: 7383 lumens
Efficiency: N/A
Efficacy: 78.8 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): 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

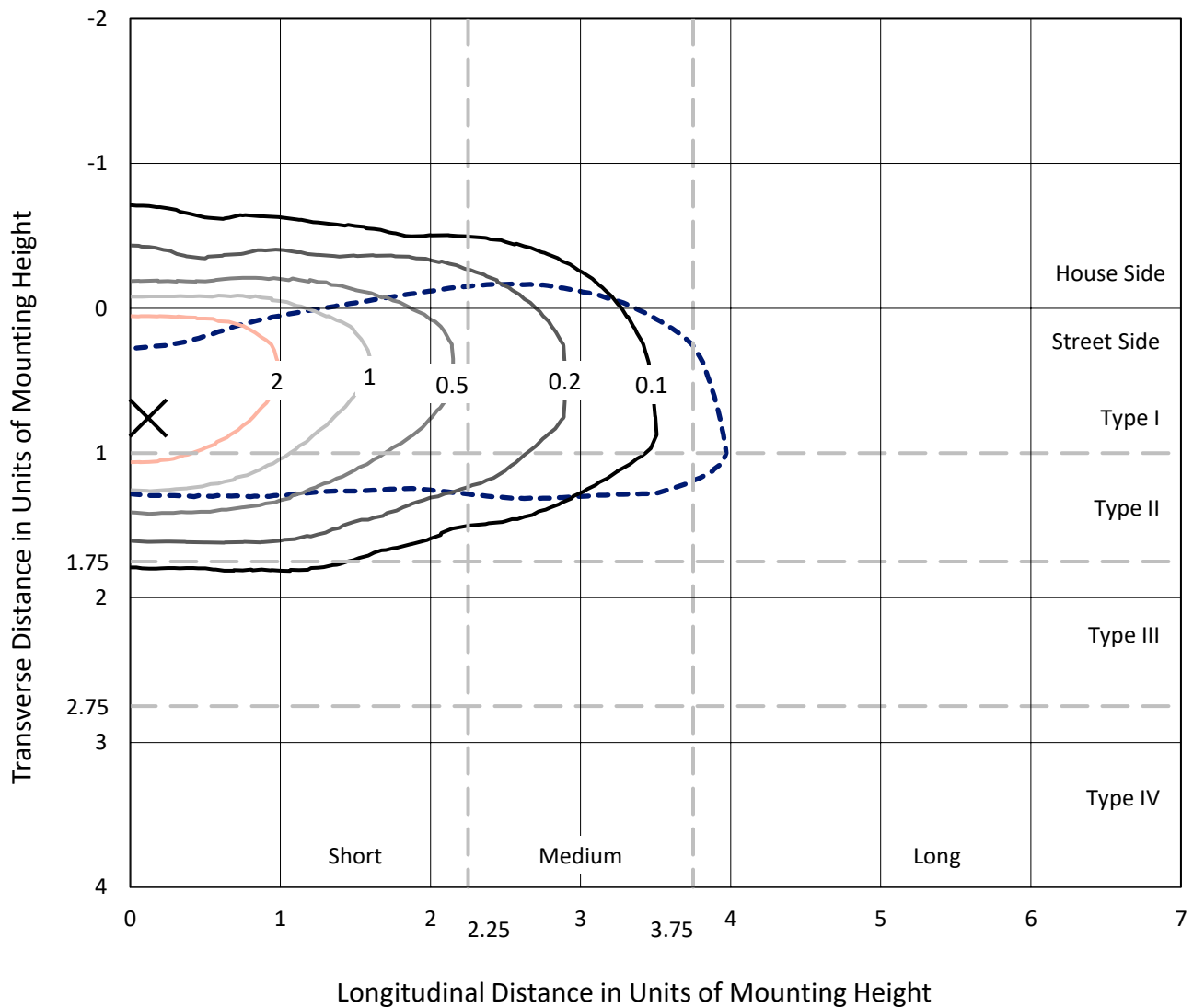


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

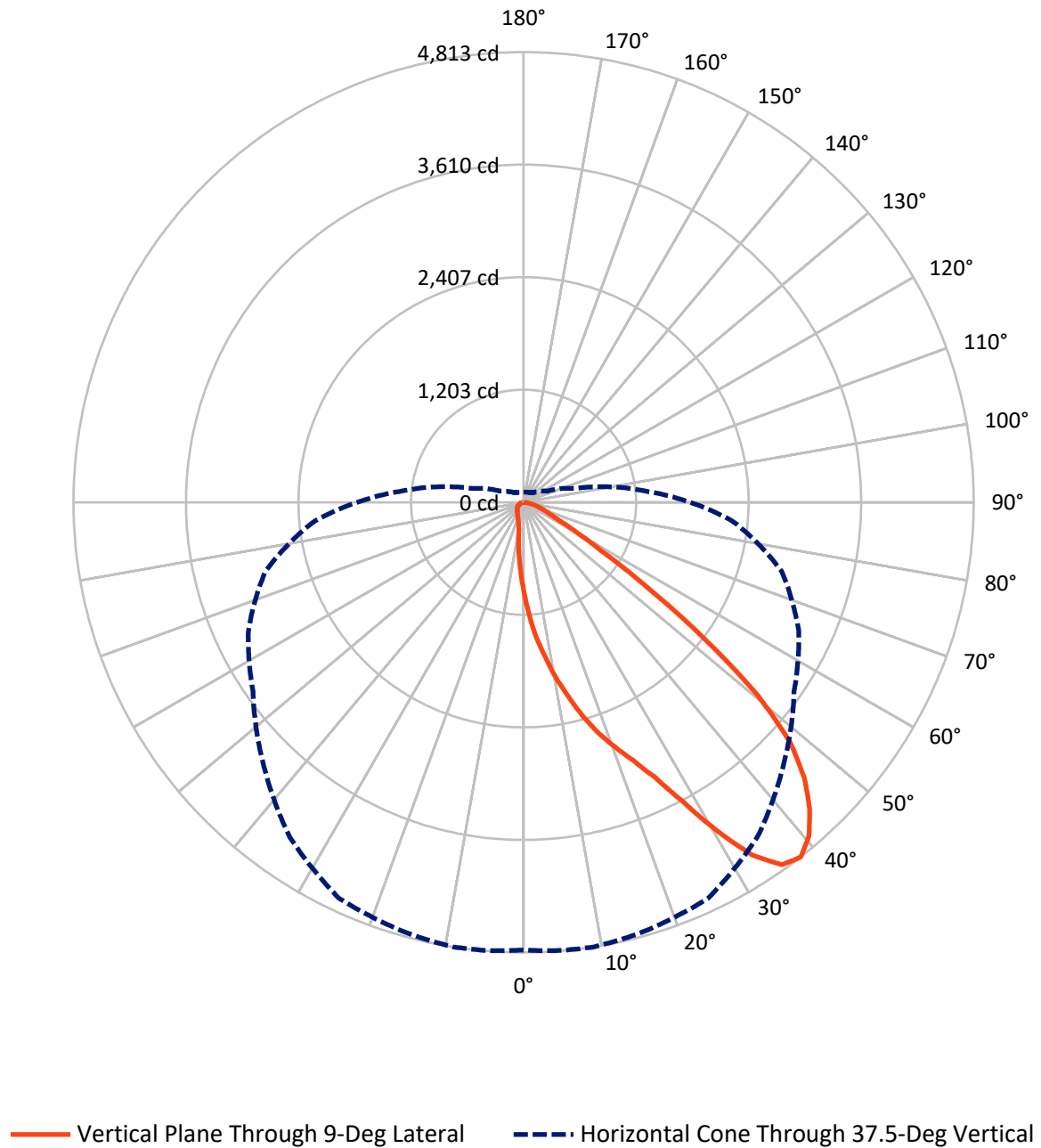


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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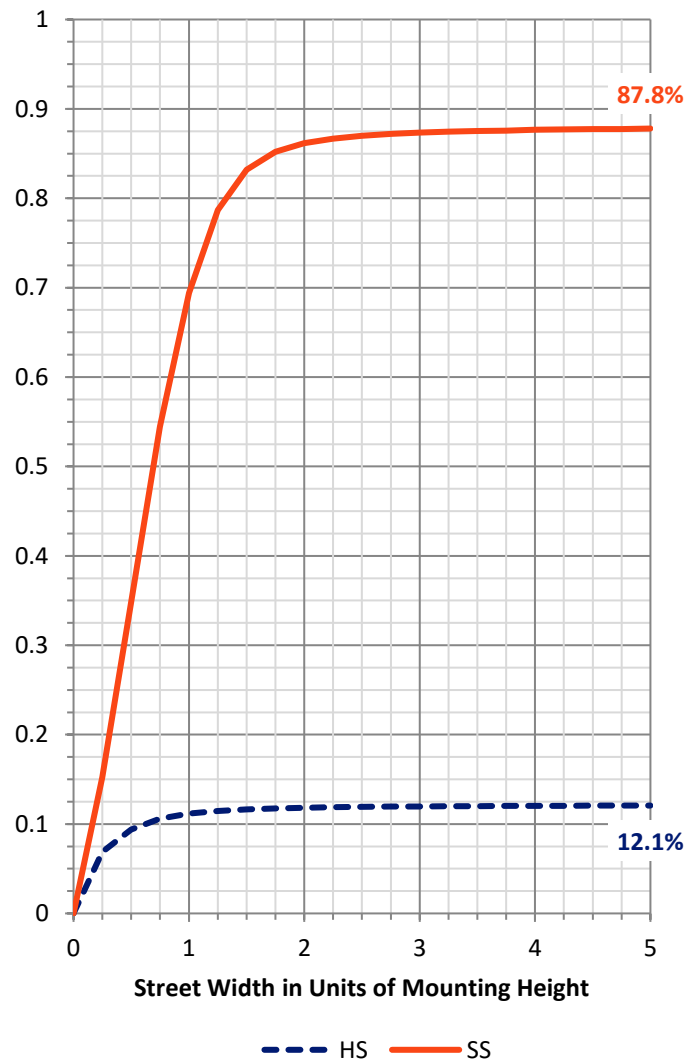
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.9	0.0	897.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6485.1	0.0	6485.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	7383.0	0.0	7383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.3
10°-20°	341.0	4.6
20°-30°	700.6	9.5
30°-40°	1238.3	16.8
40°-50°	1645.0	22.3
50°-60°	1560.2	21.1
60°-70°	1190.3	16.1
70°-80°	577.0	7.8
80°-90°	32.5	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°	7383.0	100.0
0°-180°	7383.0	100.0

Coefficient of Utilization



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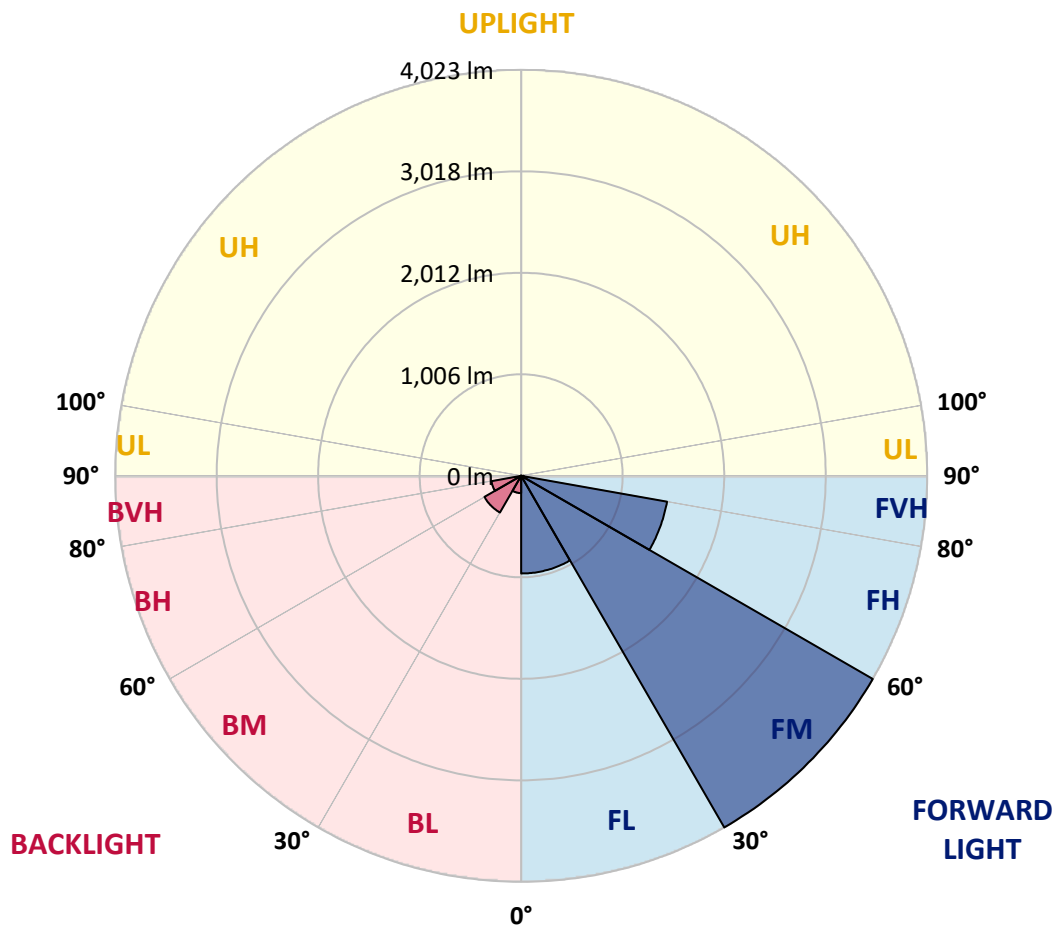
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.3	13.1			
FM	(30°-60°)	4023.4	54.5			
FH	(60°-80°)	1467.7	19.9			G1/1800
FVH	(80°-90°)	25.7	0.3			G1/100
BL	(0°-30°)	171.4	2.3	B1/500		
BM	(30°-60°)	420.2	5.7	B1/1000		
BH	(60°-80°)	299.6	4.1	B1/500		G1/500
BVH	(80°-90°)	6.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	1209.3	1188.1	1212.4	1209.3	1188.1	1174.5	1132.0	1118.4	1068.4	1032.0	1000.2
5°	1457.9	1436.6	1457.9	1451.8	1421.5	1388.1	1318.4	1273.0	1183.6	1104.8	1033.5
7.5°	1664.0	1664.0	1673.0	1674.6	1638.2	1586.7	1500.3	1432.1	1306.3	1185.1	1071.4
10°	1886.7	1888.2	1907.9	1894.3	1845.8	1776.1	1667.0	1580.6	1429.1	1269.9	1107.8
12.5°	2124.6	2126.2	2132.2	2126.2	2068.6	1979.2	1847.3	1733.7	1559.4	1366.9	1157.8
15°	2362.6	2364.1	2371.7	2361.1	2297.4	2192.8	2042.8	1903.4	1697.3	1476.0	1218.4
17.5°	2585.3	2588.4	2594.4	2580.8	2514.1	2389.8	2236.8	2068.6	1844.3	1592.7	1286.6
20°	2785.4	2788.4	2793.0	2774.8	2708.1	2583.8	2418.6	2242.9	1994.3	1712.4	1360.9
22.5°	2986.9	2990.0	2997.5	2973.3	2899.0	2756.6	2594.4	2412.6	2153.4	1844.3	1447.2
25°	3244.6	3247.6	3253.6	3218.8	3117.3	2950.6	2779.3	2592.9	2326.2	1992.8	1553.3
27.5°	3621.9	3618.9	3618.9	3555.2	3380.9	3164.2	2965.7	2776.3	2512.6	2151.9	1670.0
30°	4088.7	4081.1	4076.5	3990.2	3741.6	3405.2	3156.7	2947.5	2691.4	2320.1	1795.8
32.5°	4506.9	4506.9	4497.8	4406.9	4143.2	3729.5	3359.7	3114.2	2864.2	2489.9	1926.1
35°	4753.9	4764.5	4760.0	4691.8	4499.3	4078.0	3634.0	3314.3	3046.0	2667.2	2082.2
37.5°	4787.3	4808.5	4813.0	4772.1	4670.6	4363.0	3938.6	3531.0	3246.1	2858.1	2233.8
40°	4652.4	4697.9	4697.9	4691.8	4655.4	4497.8	4194.7	3782.5	3452.2	3056.6	2386.8
42.5°	4444.8	4491.8	4485.7	4508.4	4499.3	4466.0	4338.7	4017.4	3658.3	3261.2	2526.2
45°	4173.5	4222.0	4209.9	4250.8	4269.0	4305.4	4323.5	4181.1	3861.3	3484.0	2682.3
47.5°	3738.6	3820.4	3838.6	3911.4	3987.1	4100.8	4187.2	4240.2	4050.8	3723.4	2852.1
50°	3096.0	3211.2	3247.6	3400.6	3608.3	3843.2	3982.6	4167.5	4184.1	3968.9	3035.4
52.5°	2217.1	2350.4	2406.5	2658.1	3085.4	3494.6	3746.2	4006.8	4235.7	4203.8	3233.9
55°	1433.6	1547.3	1601.8	1838.2	2406.5	3049.1	3467.3	3799.2	4206.9	4419.0	3461.3
57.5°	883.5	948.7	985.0	1188.1	1710.9	2477.7	3102.1	3608.3	4119.0	4605.4	3697.7
60°	595.6	633.5	651.6	747.1	1162.3	1851.9	2600.5	3408.2	4003.8	4731.2	3912.9
62.5°	395.5	407.7	425.8	484.9	766.8	1300.2	1997.3	3050.6	3917.4	4738.8	4072.0
65°	306.1	312.2	319.8	345.5	472.8	909.3	1404.8	2471.7	3788.6	4578.1	4122.0
67.5°	241.0	247.0	256.1	269.7	342.5	616.8	956.2	1811.0	3524.9	4326.6	4040.2
70°	189.4	194.0	200.0	212.2	266.7	447.1	631.9	1203.3	2993.0	4087.1	3782.5
72.5°	150.0	154.6	160.6	172.8	216.7	327.3	433.4	750.1	2308.0	3794.7	3287.0
75°	118.2	121.2	125.8	137.9	174.3	254.6	294.0	448.6	1568.5	3259.7	2561.1
77.5°	59.1	72.7	83.3	95.5	127.3	175.8	195.5	248.5	662.2	1673.0	1221.4
80°	34.9	42.4	45.5	53.0	83.3	106.1	106.1	100.0	209.1	642.5	498.6
82.5°	19.7	27.3	28.8	30.3	50.0	60.6	48.5	36.4	42.4	215.2	145.5
85°	6.1	9.1	10.6	12.1	16.7	18.2	16.7	15.2	12.1	21.2	13.6
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	3.0	3.0	4.5	4.5	4.5
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°	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9	975.9
2.5°	982.0	962.3	924.4	889.6	856.2	832.0	809.2	788.0	772.9	760.8	759.2
5°	995.6	956.2	883.5	815.3	753.2	701.6	657.7	622.8	597.1	578.9	577.4
7.5°	1013.8	953.2	842.6	741.1	648.6	574.4	510.7	463.7	430.4	416.7	406.1
10°	1029.0	950.2	801.7	666.8	545.6	451.6	375.8	328.9	304.6	295.5	291.0
12.5°	1054.7	953.2	766.8	598.6	456.1	345.5	287.9	262.2	251.6	244.0	242.5
15°	1092.6	966.9	733.5	531.9	365.2	278.8	245.5	228.8	218.2	216.7	215.2
17.5°	1130.5	979.0	703.2	463.7	303.1	242.5	219.7	206.1	198.5	197.0	197.0
20°	1174.5	994.1	669.8	398.6	259.1	218.2	200.0	189.4	180.3	178.8	178.8
22.5°	1226.0	1015.3	638.0	341.0	230.3	200.0	184.9	172.8	165.2	163.7	163.7
25°	1295.7	1047.2	612.2	298.5	210.6	184.9	171.2	160.6	154.6	151.5	151.5
27.5°	1373.0	1091.1	594.1	272.8	197.0	172.8	159.1	150.0	144.0	140.9	140.9
30°	1459.4	1139.6	581.9	262.2	189.4	162.2	150.0	140.9	133.4	131.8	131.8
32.5°	1554.8	1195.7	574.4	263.7	187.9	154.6	140.9	131.8	125.8	122.8	122.8
35°	1660.9	1257.8	569.8	272.8	190.9	148.5	133.4	124.3	118.2	115.2	115.2
37.5°	1779.1	1330.6	569.8	281.9	198.5	147.0	125.8	116.7	112.1	109.1	109.1
40°	1889.8	1407.8	575.9	292.5	206.1	147.0	119.7	112.1	106.1	103.0	103.0
42.5°	1976.1	1451.8	580.4	303.1	210.6	145.5	113.7	106.1	101.5	98.5	98.5
45°	2074.6	1498.8	571.3	307.6	210.6	142.5	109.1	101.5	97.0	94.0	94.0
47.5°	2183.7	1556.4	569.8	310.7	206.1	136.4	104.6	97.0	94.0	90.9	90.9
50°	2294.4	1620.0	572.8	309.1	200.0	127.3	98.5	94.0	89.4	86.4	86.4
52.5°	2420.2	1686.7	578.9	306.1	186.4	116.7	94.0	89.4	84.9	81.8	80.3
55°	2559.6	1759.4	591.0	300.1	168.2	106.1	89.4	84.9	78.8	75.8	74.3
57.5°	2720.2	1848.8	604.7	287.9	148.5	97.0	84.9	78.8	69.7	65.2	63.6
60°	2873.3	1950.4	619.8	259.1	128.8	87.9	80.3	71.2	62.1	59.1	57.6
62.5°	3017.2	2050.4	627.4	207.6	109.1	80.3	75.8	65.2	56.1	53.0	51.5
65°	3109.7	2159.5	610.7	140.9	89.4	74.3	69.7	60.6	51.5	47.0	47.0
67.5°	3115.7	2211.0	553.1	92.4	72.7	66.7	63.6	54.6	45.5	42.4	40.9
70°	2962.7	2133.7	422.8	72.7	60.6	57.6	57.6	48.5	39.4	36.4	34.9
72.5°	2611.1	1889.8	269.7	59.1	51.5	48.5	48.5	40.9	34.9	30.3	28.8
75°	2061.0	1457.9	144.0	48.5	42.4	40.9	37.9	33.3	28.8	25.8	24.2
77.5°	947.1	642.5	66.7	34.9	31.8	31.8	28.8	24.2	22.7	19.7	19.7
80°	374.3	218.2	33.3	22.7	21.2	21.2	21.2	16.7	16.7	13.6	12.1
82.5°	103.0	45.5	16.7	13.6	13.6	13.6	12.1	10.6	10.6	9.1	9.1
85°	10.6	7.6	7.6	7.6	7.6	6.1	6.1	4.5	3.0	3.0	3.0
87.5°	4.5	4.5	4.5	4.5	4.5	3.0	1.5	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)