

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: P1210746

Luminaire Tested: **ARCH3-60-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6915 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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

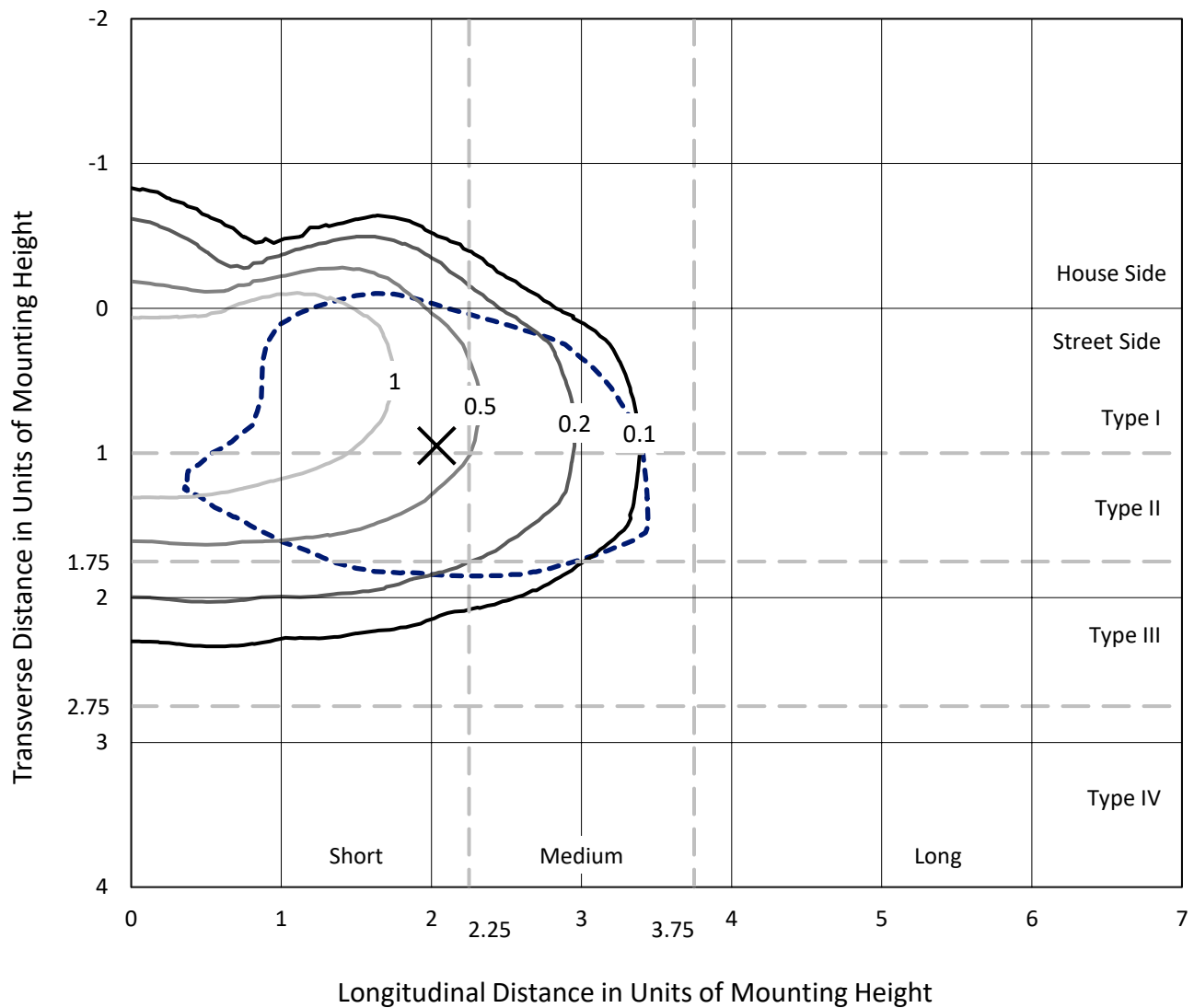


REPORT NUMBER: P1210746

CATALOG NUMBER: ARCH3-60-727-U-T3RE-HSS

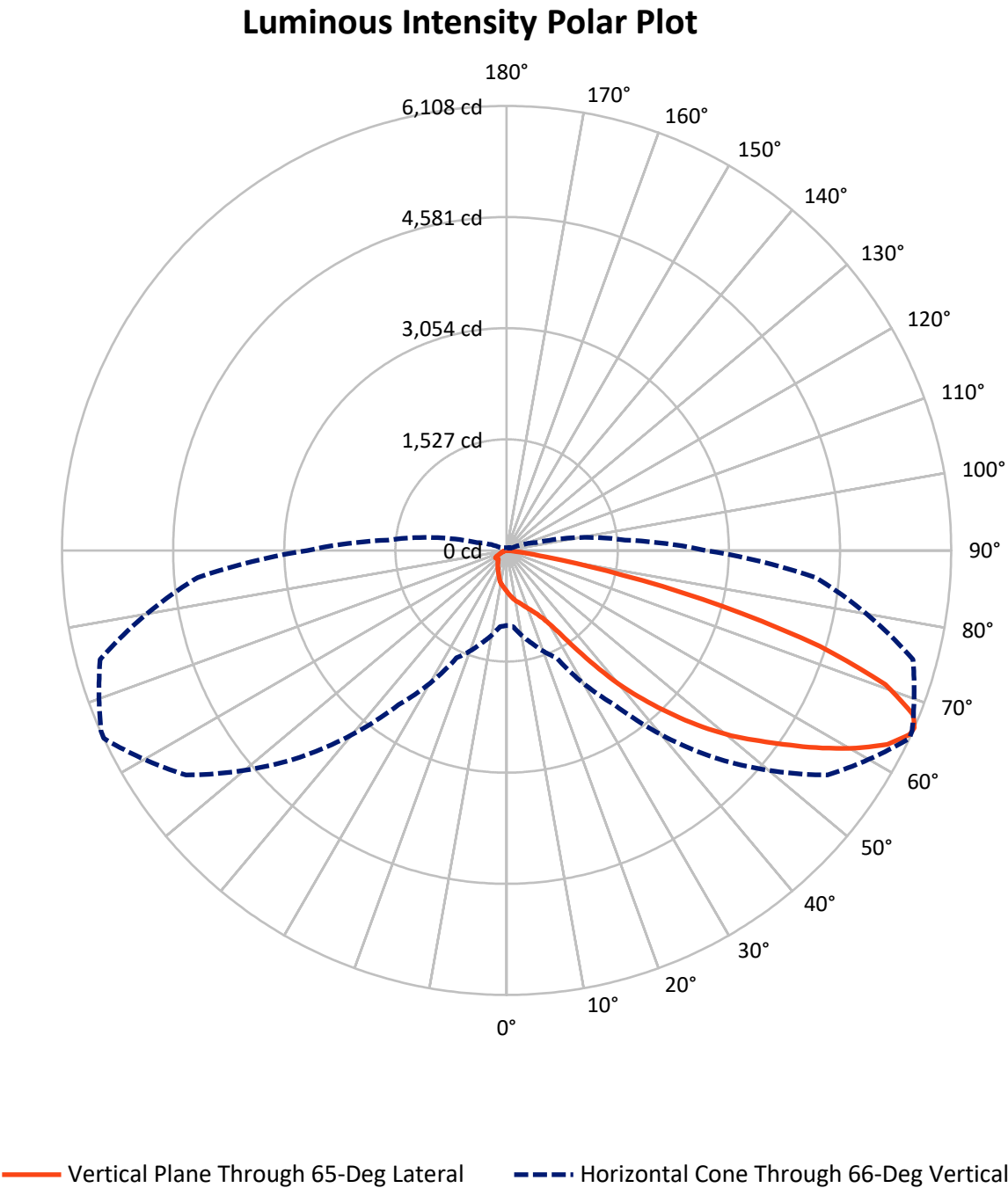
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

REPORT NUMBER: P1210746
CATALOG NUMBER: ARCH3-60-727-U-T3RE-HSS



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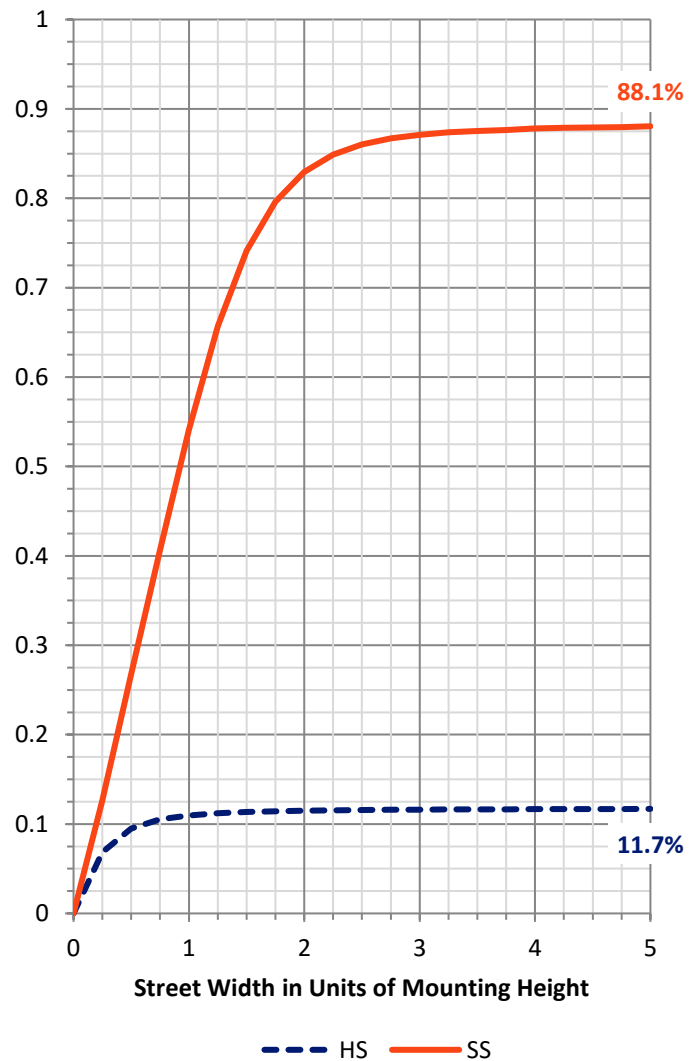
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	816.1	0.0	816.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6098.9	0.0	6098.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	6915.0	0.0	6915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	0.8
10°-20°	158.1	2.3
20°-30°	289.4	4.2
30°-40°	588.0	8.5
40°-50°	1241.7	18.0
50°-60°	1909.0	27.6
60°-70°	1921.5	27.8
70°-80°	718.0	10.4
80°-90°	35.9	0.5
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°	6915.0	100.0
0°-180°	6915.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210746

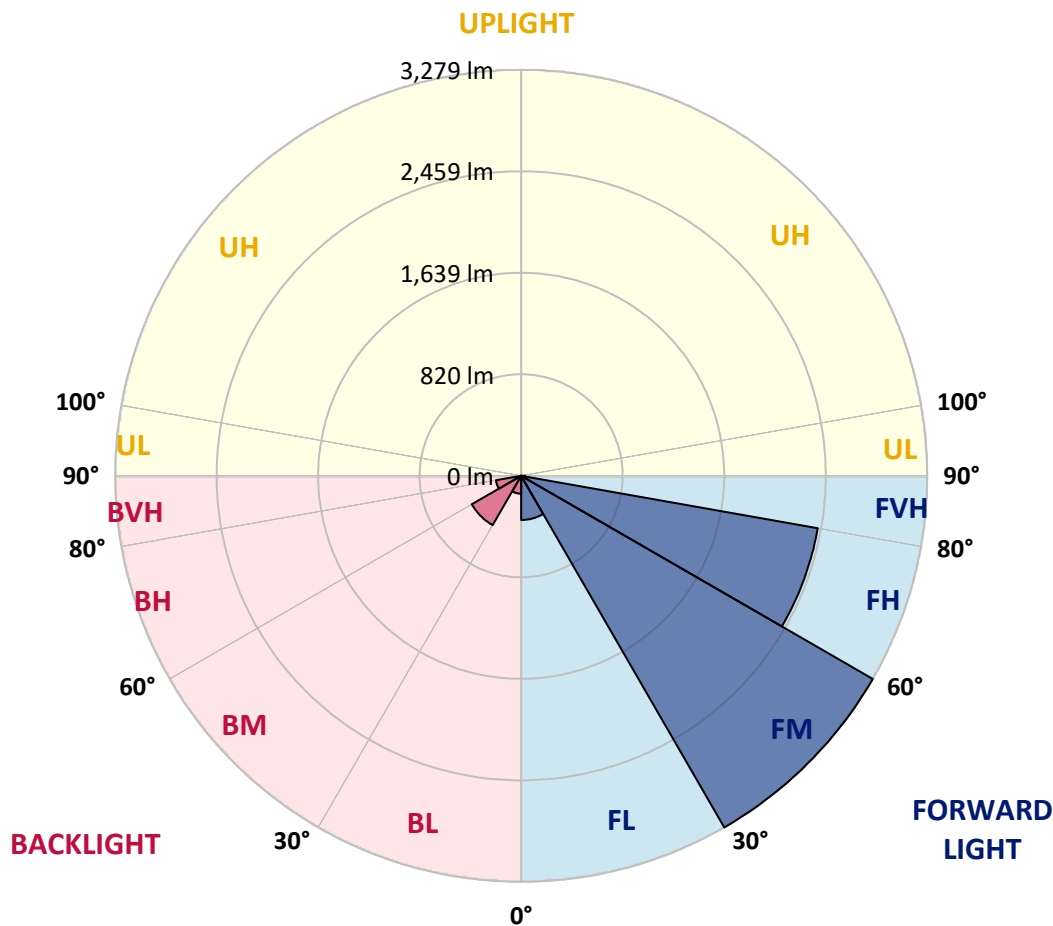
CATALOG NUMBER: ARCH3-60-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.5	5.2			
FM	(30°-60°)	3278.6	47.4			
FH	(60°-80°)	2432.2	35.2			G2/5000
FVH	(80°-90°)	31.7	0.5			G1/100
BL	(0°-30°)	144.4	2.1	B1/500		
BM	(30°-60°)	460.1	6.7	B1/1000		
BH	(60°-80°)	207.3	3.0	B1/500		G1/500
BVH	(80°-90°)	4.2	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



REPORT NUMBER: P1210746

CATALOG NUMBER: ARCH3-60-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4
2.5°	642.4	643.7	641.2	636.2	631.1	624.9	614.8	598.5	596.0	584.7	572.2
5°	686.3	688.9	685.1	683.8	681.3	672.5	658.7	634.9	632.4	609.8	580.9
7.5°	701.4	705.2	702.7	702.7	702.7	698.9	692.6	671.3	667.5	638.7	594.7
10°	712.7	715.2	713.9	719.0	722.7	720.2	716.5	703.9	700.1	671.3	613.6
12.5°	730.3	731.5	732.8	735.3	741.6	744.1	742.8	731.5	729.0	708.9	637.4
15°	746.6	746.6	747.8	759.1	767.9	772.9	774.2	765.4	762.9	746.6	667.5
17.5°	761.6	762.9	766.6	779.2	794.2	804.3	810.6	806.8	803.0	790.5	702.7
20°	784.2	786.7	790.5	808.1	823.1	839.4	852.0	850.7	849.5	840.7	744.1
22.5°	823.1	825.6	831.9	848.2	863.3	883.3	904.7	903.4	899.6	893.4	793.0
25°	882.1	882.1	885.8	899.6	918.5	942.3	962.4	966.1	962.4	958.6	854.5
27.5°	956.1	957.4	957.4	972.4	990.0	1020.1	1045.2	1049.0	1049.0	1045.2	937.3
30°	1059.0	1055.2	1052.7	1065.3	1084.1	1128.0	1171.9	1179.5	1175.7	1182.0	1054.0
32.5°	1235.9	1229.6	1208.3	1210.8	1222.1	1282.3	1356.4	1382.7	1381.5	1392.8	1242.2
35°	1480.6	1468.0	1436.7	1410.3	1409.1	1474.3	1587.2	1686.4	1685.1	1724.0	1528.3
37.5°	1756.6	1772.9	1714.0	1668.8	1655.0	1706.4	1852.0	2066.6	2077.8	2145.6	1903.4
40°	2125.5	2135.6	2060.3	1996.3	1931.0	1949.9	2141.8	2475.6	2495.7	2571.0	2278.6
42.5°	2446.7	2456.8	2412.9	2335.1	2252.3	2217.1	2434.2	2847.0	2863.3	2967.5	2665.1
45°	2665.1	2672.6	2687.7	2695.2	2601.1	2528.3	2791.8	3228.4	3248.5	3369.0	3042.7
47.5°	2835.7	2842.0	2872.1	2947.4	2928.6	2870.8	3155.7	3624.9	3630.0	3764.2	3410.4
50°	2914.8	2929.8	3003.8	3119.3	3202.1	3218.4	3550.9	4000.1	4013.9	4141.9	3757.9
52.5°	2826.9	2831.9	3018.9	3236.0	3402.9	3568.5	3947.4	4347.7	4387.8	4483.2	4070.4
55°	2530.8	2567.2	2850.8	3232.2	3561.0	3901.0	4371.5	4722.8	4759.2	4819.5	4345.2
57.5°	2187.0	2227.2	2572.2	3070.3	3628.7	4208.4	4764.2	5121.8	5146.9	5163.3	4597.4
60°	1889.6	1927.3	2282.4	2760.4	3561.0	4425.5	5129.4	5518.3	5539.7	5495.8	4724.1
62.5°	1524.5	1562.2	1919.8	2350.1	3294.9	4469.4	5400.4	5870.9	5879.7	5760.5	4646.3
65°	1149.3	1174.4	1473.1	1842.0	2829.4	4236.0	5461.9	6090.5	6081.7	5837.0	4412.9
66°	1030.1	1051.5	1315.0	1628.7	2587.3	4022.7	5379.1	6108.1	6099.3	5780.6	4259.8
67.5°	888.4	894.6	1111.7	1332.5	2164.4	3569.7	5126.9	6027.8	6035.3	5625.0	3980.0
70°	693.9	692.6	818.1	927.3	1478.1	2539.6	4276.2	5522.1	5558.5	5037.8	3394.1
72.5°	444.2	429.1	501.9	567.1	860.8	1474.3	3118.0	4500.7	4562.2	3957.4	2528.3
75°	264.7	249.7	267.3	283.6	412.8	708.9	1833.2	3062.8	3121.8	2537.1	1504.4
77.5°	198.2	192.0	193.2	179.4	183.2	266.0	836.9	1618.6	1661.3	1038.9	570.9
80°	151.8	135.5	126.7	133.0	120.5	105.4	311.2	557.1	583.5	245.9	119.2
82.5°	101.6	87.8	81.6	89.1	76.5	59.0	75.3	107.9	105.4	66.5	46.4
85°	52.7	45.2	45.2	45.2	38.9	28.9	32.6	43.9	43.9	35.1	27.6
87.5°	15.1	13.8	16.3	15.1	11.3	11.3	12.5	15.1	15.1	13.8	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210746

CATALOG NUMBER: ARCH3-60-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4	563.4
2.5°	562.1	557.1	543.3	533.3	523.2	514.4	504.4	501.9	496.9	498.1	495.6
5°	565.9	552.1	528.2	505.7	488.1	473.0	454.2	446.7	436.6	432.9	430.4
7.5°	570.9	550.8	515.7	484.3	454.2	424.1	394.0	376.4	365.1	360.1	356.3
10°	582.2	555.8	509.4	460.5	409.0	366.4	336.3	323.7	316.2	314.9	313.7
12.5°	597.3	563.4	503.2	430.4	362.6	322.5	303.6	299.9	298.6	298.6	297.4
15°	619.8	575.9	493.1	395.2	326.2	298.6	289.8	283.6	281.1	281.1	281.1
17.5°	642.4	591.0	478.1	358.9	301.1	283.6	274.8	271.0	268.5	269.8	268.5
20°	671.3	608.5	458.0	327.5	284.8	271.0	262.2	258.5	257.2	257.2	257.2
22.5°	703.9	628.6	432.9	303.6	271.0	258.5	249.7	245.9	243.4	244.7	244.7
25°	747.8	653.7	406.5	279.8	257.2	245.9	235.9	230.9	230.9	232.1	233.4
27.5°	804.3	683.8	380.2	264.7	244.7	233.4	222.1	217.1	218.3	220.8	220.8
30°	887.1	725.2	353.8	248.4	230.9	218.3	208.3	203.3	205.8	210.8	210.8
32.5°	1005.0	793.0	331.3	229.6	210.8	197.0	187.0	183.2	189.5	199.5	199.5
35°	1215.8	917.2	317.4	210.8	189.5	173.2	160.6	156.8	165.6	178.2	178.2
37.5°	1498.2	1116.7	322.5	194.5	171.9	153.1	139.3	134.3	140.5	151.8	155.6
40°	1813.1	1357.6	366.4	180.7	155.6	136.8	123.0	117.9	121.7	126.7	128.0
42.5°	2128.0	1613.6	449.2	170.6	143.0	123.0	110.4	106.7	109.2	110.4	111.7
45°	2441.7	1867.1	553.3	164.4	131.7	111.7	99.1	99.1	100.4	100.4	100.4
47.5°	2739.1	2114.2	662.5	163.1	121.7	100.4	90.3	91.6	91.6	92.9	92.9
50°	3020.2	2335.1	772.9	166.9	112.9	90.3	82.8	82.8	82.8	84.1	82.8
52.5°	3254.8	2528.3	888.4	173.2	104.1	82.8	75.3	75.3	75.3	76.5	75.3
55°	3476.9	2704.0	1006.3	181.9	96.6	76.5	69.0	66.5	66.5	67.8	66.5
57.5°	3657.6	2820.7	1118.0	183.2	90.3	70.3	64.0	60.2	60.2	60.2	60.2
60°	3665.1	2752.9	1150.6	160.6	82.8	64.0	57.7	52.7	54.0	54.0	54.0
62.5°	3425.4	2396.6	924.7	120.5	74.0	57.7	52.7	47.7	47.7	47.7	47.7
65°	2954.9	1864.5	542.0	95.4	64.0	51.4	46.4	42.7	42.7	42.7	41.4
66°	2734.1	1634.9	415.3	86.6	60.2	50.2	45.2	41.4	40.2	38.9	38.9
67.5°	2374.0	1292.4	259.7	76.5	55.2	46.4	41.4	37.6	36.4	35.1	35.1
70°	1788.0	820.6	126.7	59.0	47.7	40.2	36.4	32.6	31.4	30.1	28.9
72.5°	1254.7	480.6	66.5	45.2	38.9	35.1	31.4	27.6	26.3	25.1	25.1
75°	708.9	232.1	43.9	32.6	31.4	28.9	26.3	22.6	21.3	21.3	21.3
77.5°	268.5	80.3	30.1	23.8	25.1	22.6	18.8	18.8	17.6	18.8	17.6
80°	70.3	35.1	18.8	17.6	18.8	16.3	13.8	15.1	15.1	15.1	15.1
82.5°	37.6	20.1	11.3	12.5	11.3	11.3	8.8	10.0	11.3	10.0	11.3
85°	26.3	10.0	6.3	6.3	5.0	5.0	3.8	5.0	6.3	5.0	5.0
87.5°	13.8	3.8	3.8	3.8	3.8	2.5	1.3	0.0	1.3	1.3	1.3
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)