

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: P842677

Luminaire Tested: **ARCH4-80-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

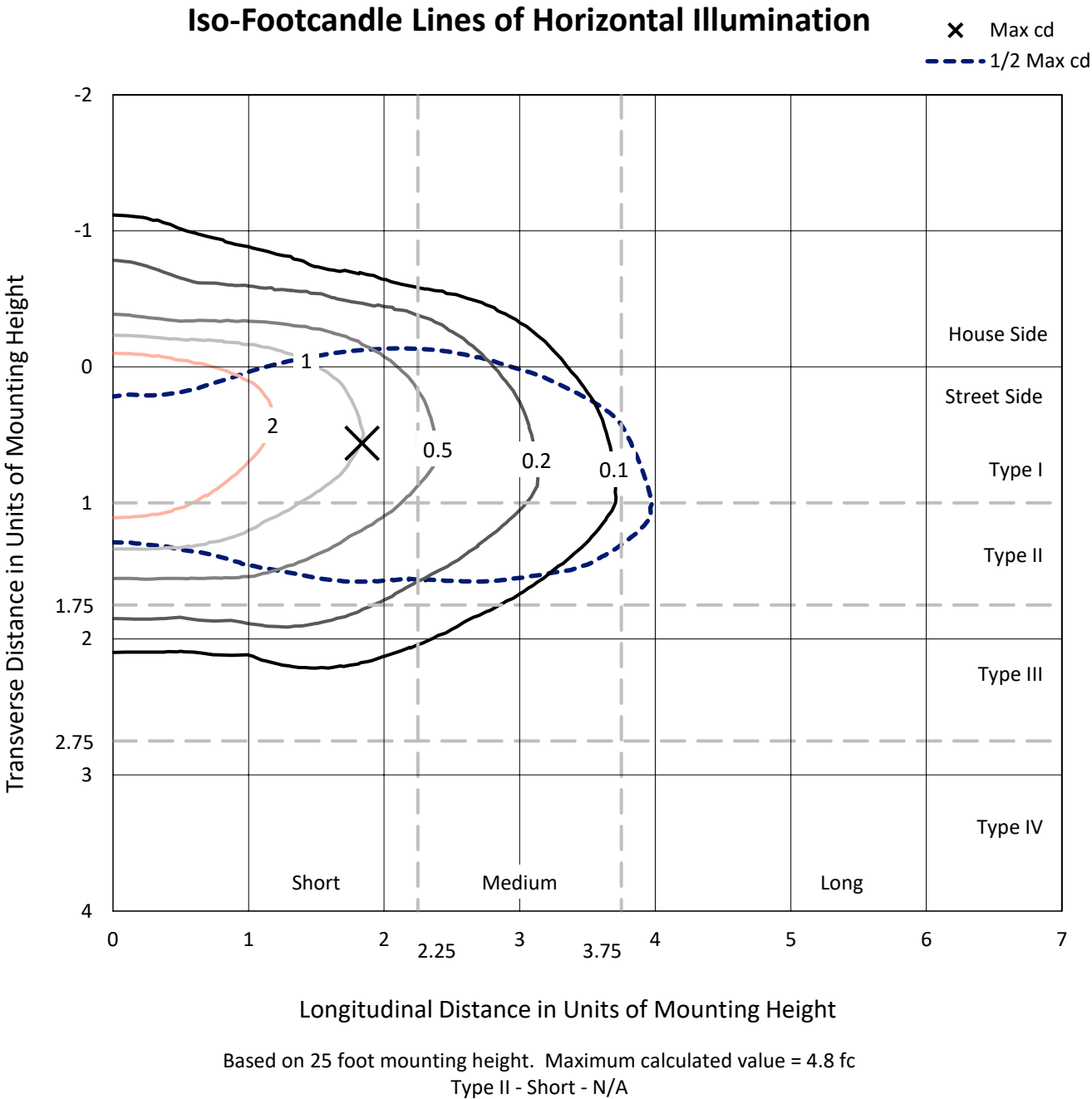
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10094 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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

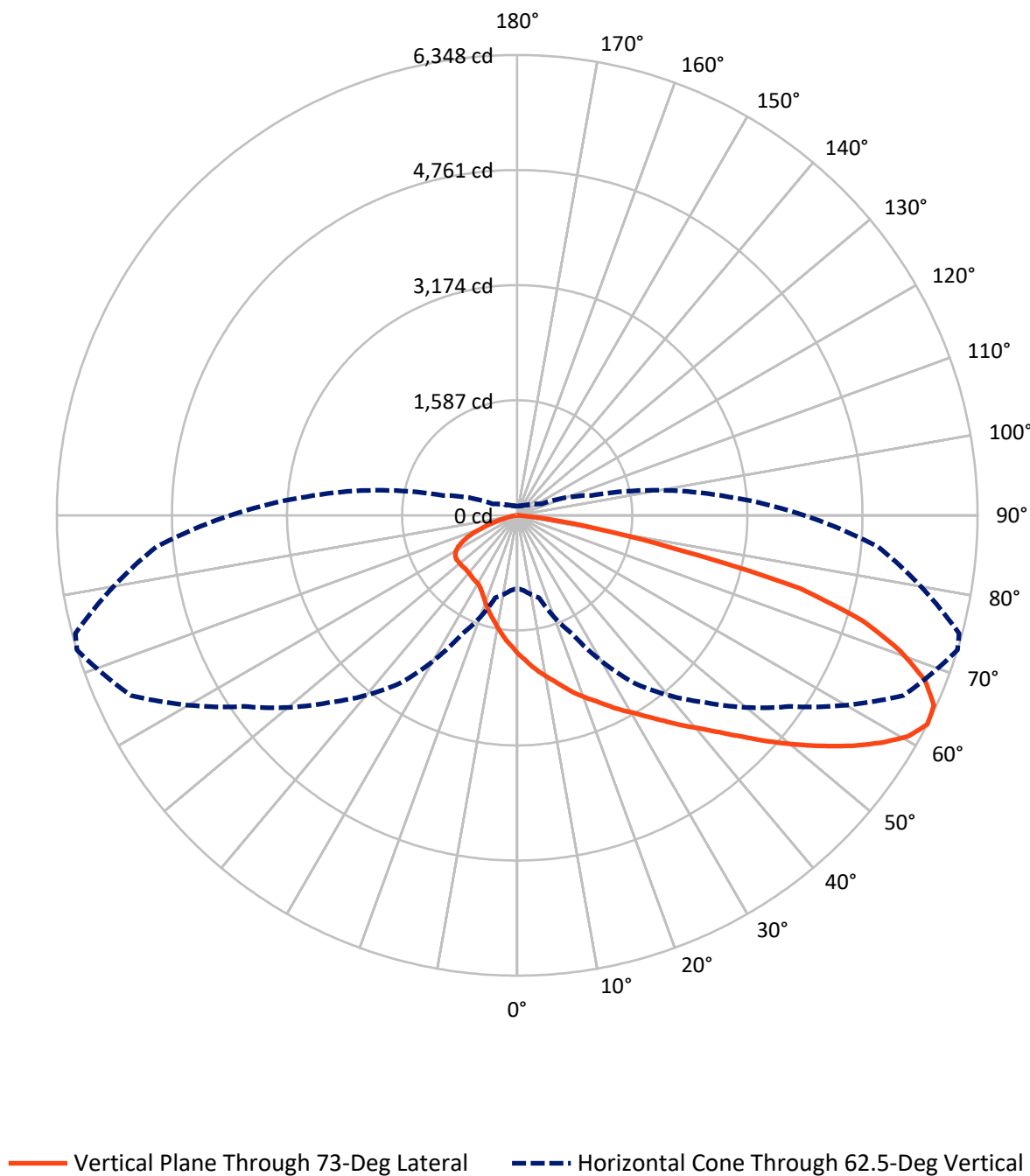


REPORT NUMBER: P842677
CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS



REPORT NUMBER: P842677
CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842677

CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.7	0.0	1564.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8529.3	0.0	8529.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	10094.0	0.0	10094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.8
10°-20°	557.2	5.5
20°-30°	927.4	9.2
30°-40°	1399.3	13.9
40°-50°	1955.9	19.4
50°-60°	2160.4	21.4
60°-70°	1882.0	18.6
70°-80°	950.7	9.4
80°-90°	76.3	0.8
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°	10094.0	100.0
0°-180°	10094.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842677

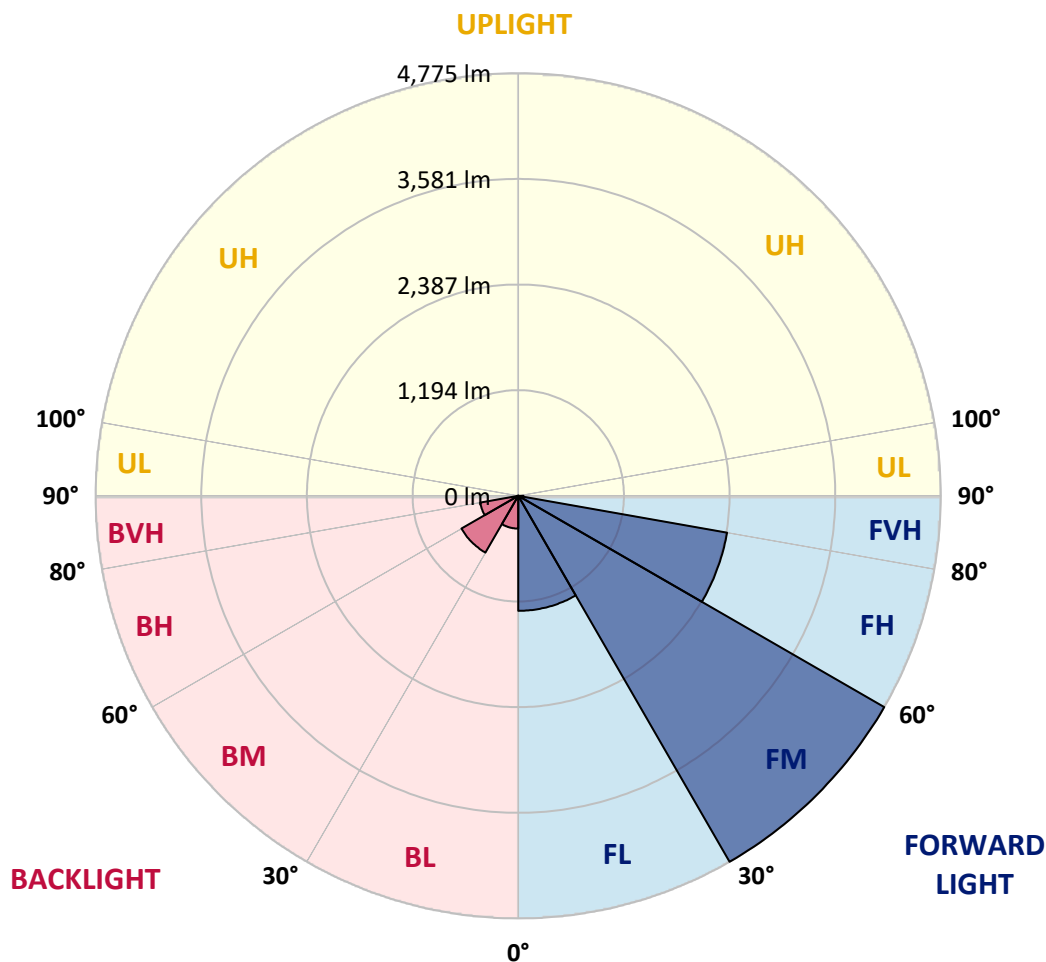
CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.4	12.9			
FM	(30°-60°)	4774.8	47.3			
FH	(60°-80°)	2396.0	23.7			G2/5000
FVH	(80°-90°)	59.1	0.6			G1/100
BL	(0°-30°)	369.8	3.7	B1/500		
BM	(30°-60°)	740.9	7.3	B1/1000		
BH	(60°-80°)	436.8	4.3	B1/500		G1/500
BVH	(80°-90°)	17.3	0.2			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 II Short



REPORT NUMBER: P842677

CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	2175.3	2199.4	2186.3	2195.0	2151.1	2122.5	2089.5	2025.7	1990.5	1986.1	1944.3
5°	2494.2	2520.6	2498.6	2492.0	2415.0	2349.0	2274.2	2162.1	2087.3	2074.1	1981.7
7.5°	2813.1	2837.3	2810.9	2791.1	2687.7	2571.2	2461.2	2296.2	2179.7	2157.7	2012.5
10°	3037.4	3059.4	3039.6	3019.8	2912.1	2793.3	2637.1	2421.6	2263.2	2228.0	2032.3
12.5°	3206.8	3220.0	3211.2	3193.6	3092.4	2964.9	2815.3	2562.4	2357.8	2313.8	2063.1
15°	3345.4	3367.4	3356.4	3343.2	3246.4	3118.8	2975.9	2709.7	2467.8	2412.8	2109.3
17.5°	3437.7	3453.1	3455.3	3455.3	3369.6	3244.2	3105.6	2843.9	2577.8	2507.4	2153.3
20°	3479.5	3497.1	3508.1	3525.7	3455.3	3347.6	3206.8	2958.3	2681.1	2601.9	2195.0
22.5°	3499.3	3514.7	3543.3	3582.9	3525.7	3435.5	3305.8	3063.8	2784.5	2700.9	2243.4
25°	3514.7	3534.5	3576.3	3651.1	3611.5	3534.5	3422.3	3184.8	2907.7	2821.9	2313.8
27.5°	3556.5	3580.7	3620.3	3710.5	3662.1	3624.7	3545.5	3314.6	3037.4	2949.5	2399.6
30°	3701.7	3721.5	3719.3	3776.5	3717.1	3706.1	3651.1	3439.9	3162.8	3074.8	2500.8
32.5°	3965.6	3985.4	3937.0	3915.0	3785.2	3787.4	3765.5	3574.1	3312.4	3222.2	2617.3
35°	4249.3	4271.3	4207.5	4170.2	3952.4	3888.6	3899.6	3741.3	3479.5	3389.3	2762.5
37.5°	4502.3	4528.7	4473.7	4418.7	4198.7	4051.4	4049.2	3928.2	3670.9	3578.5	2923.1
40°	4640.8	4671.6	4704.6	4673.8	4442.9	4280.1	4209.7	4119.6	3860.0	3765.5	3096.8
42.5°	4706.8	4792.6	4852.0	4832.2	4643.0	4478.1	4394.5	4319.7	4091.0	3998.6	3303.6
45°	4522.1	4524.3	4649.6	4757.4	4722.2	4612.2	4596.8	4544.1	4354.9	4266.9	3536.7
47.5°	4291.1	4273.5	4361.5	4552.9	4651.8	4680.4	4770.6	4792.6	4656.2	4568.3	3774.3
50°	3736.9	3747.9	4033.8	4308.7	4502.3	4687.0	4893.8	5047.7	4966.4	4882.8	4025.0
52.5°	3039.6	3066.0	3393.7	3998.6	4304.3	4621.0	4966.4	5302.9	5283.1	5203.9	4275.7
55°	2437.0	2478.8	2826.3	3481.7	4051.4	4473.7	4997.1	5536.0	5610.8	5538.2	4522.1
57.5°	1862.9	1906.9	2199.4	2872.5	3728.1	4233.9	4975.2	5740.6	5916.5	5870.3	4748.6
60°	1403.2	1447.2	1634.2	2329.2	3323.4	3965.6	4865.2	5874.7	6191.4	6143.1	4913.6
62.5°	1005.1	1040.3	1178.9	1812.3	2830.7	3646.7	4594.6	5876.9	6347.6	6308.0	4992.7
65°	723.6	723.6	835.8	1293.3	2368.8	3264.0	4185.5	5606.4	6314.6	6303.6	4937.8
67.5°	521.3	525.7	615.8	904.0	1889.3	2799.9	3655.5	5124.7	6059.5	6114.5	4739.8
70°	369.5	380.5	422.3	631.2	1427.4	2210.4	3088.0	4493.5	5599.8	5696.6	4357.1
72.5°	285.9	292.5	321.1	439.9	1042.5	1643.0	2461.2	3789.6	4986.1	5096.1	3835.8
75°	219.9	226.5	248.5	323.3	747.8	1152.5	1748.6	2940.7	4020.6	4216.3	3081.4
77.5°	160.6	169.4	184.8	235.3	435.5	732.4	1060.1	1654.0	2219.2	2311.6	1614.4
80°	74.8	85.8	107.8	151.8	235.3	345.3	376.1	637.8	1066.7	1115.1	875.4
82.5°	41.8	52.8	61.6	92.4	118.8	123.2	127.6	160.6	402.5	444.3	367.3
85°	19.8	26.4	28.6	39.6	39.6	35.2	41.8	30.8	66.0	79.2	77.0
87.5°	0.0	2.2	4.4	11.0	8.8	6.6	6.6	6.6	6.6	8.8	6.6
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: P842677

CATALOG NUMBER: ARCH4-80-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3	1911.3
2.5°	1924.5	1895.9	1829.9	1772.8	1735.4	1702.4	1658.4	1638.6	1603.4	1610.0	1590.2
5°	1935.5	1882.7	1766.2	1658.4	1579.2	1508.8	1431.8	1387.9	1339.5	1335.1	1319.7
7.5°	1942.1	1860.7	1693.6	1541.8	1420.8	1313.1	1209.7	1152.5	1093.1	1079.9	1066.7
10°	1935.5	1827.7	1618.8	1420.8	1260.3	1126.1	1009.5	937.0	875.4	860.0	846.8
12.5°	1942.1	1810.1	1548.4	1308.7	1117.3	965.6	833.6	758.8	701.6	686.2	677.4
15°	1957.5	1799.1	1489.0	1207.5	989.8	820.4	690.6	626.8	580.7	565.3	560.9
17.5°	1970.7	1788.2	1425.2	1108.5	862.2	692.8	580.7	527.9	488.3	472.9	468.5
20°	1988.3	1772.8	1361.5	1013.9	750.0	591.7	492.7	446.5	415.7	404.7	402.5
22.5°	2003.7	1761.8	1302.1	919.4	646.6	510.3	426.7	389.3	367.3	356.3	356.3
25°	2043.3	1766.2	1251.5	831.4	569.7	446.5	376.1	347.5	329.9	323.3	323.3
27.5°	2089.5	1783.8	1211.9	756.6	503.7	398.1	340.9	316.7	307.9	299.1	301.3
30°	2155.5	1818.9	1185.5	695.0	455.3	360.7	312.3	294.7	285.9	283.7	283.7
32.5°	2239.0	1876.1	1183.3	655.4	420.1	332.1	292.5	277.1	272.7	270.5	270.5
35°	2338.0	1926.7	1170.1	637.8	398.1	312.3	277.1	266.1	263.9	263.9	263.9
37.5°	2456.8	2010.3	1161.3	613.6	387.1	301.3	266.1	257.3	257.3	257.3	257.3
40°	2580.0	2078.5	1148.1	591.7	382.7	294.7	259.5	248.5	248.5	248.5	248.5
42.5°	2727.3	2177.5	1143.7	580.7	376.1	290.3	250.7	237.5	239.7	239.7	241.9
45°	2905.5	2289.6	1141.5	569.7	373.9	285.9	241.9	226.5	228.7	226.5	226.5
47.5°	3085.8	2419.4	1148.1	563.1	371.7	281.5	235.3	215.5	215.5	213.3	213.3
50°	3275.0	2538.2	1152.5	556.5	367.3	272.7	224.3	206.7	202.3	198.0	200.1
52.5°	3453.1	2648.1	1154.7	545.5	354.1	259.5	215.5	195.8	189.2	182.6	184.8
55°	3631.3	2753.7	1159.1	532.3	336.5	246.3	204.5	184.8	176.0	167.2	167.2
57.5°	3791.8	2846.1	1148.1	499.3	316.7	233.1	193.6	171.6	158.4	149.6	149.6
60°	3901.8	2912.1	1115.1	450.9	290.3	217.7	182.6	158.4	143.0	136.4	136.4
62.5°	3954.6	2923.1	1055.7	371.7	257.3	202.3	169.4	145.2	132.0	127.6	127.6
65°	3904.0	2874.7	963.4	279.3	222.1	184.8	156.2	134.2	121.0	110.0	110.0
67.5°	3728.1	2738.3	835.8	211.1	189.2	167.2	143.0	123.2	107.8	99.0	99.0
70°	3374.0	2454.6	646.6	169.4	160.6	145.2	129.8	110.0	96.8	85.8	85.8
72.5°	2909.9	2080.7	455.3	136.4	136.4	123.2	110.0	96.8	83.6	74.8	74.8
75°	2232.4	1539.6	305.7	110.0	112.2	103.4	90.2	79.2	70.4	63.8	63.8
77.5°	1218.5	761.0	187.0	81.4	83.6	79.2	70.4	63.8	59.4	52.8	52.8
80°	591.7	334.3	107.8	57.2	59.4	57.2	52.8	46.2	46.2	41.8	41.8
82.5°	248.5	125.4	57.2	39.6	39.6	35.2	33.0	33.0	33.0	30.8	30.8
85°	61.6	24.2	24.2	22.0	22.0	22.0	19.8	19.8	19.8	15.4	17.6
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	2.2	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)