

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: P573227

Luminaire Tested: **ARCH-S-PA2-50-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7274 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

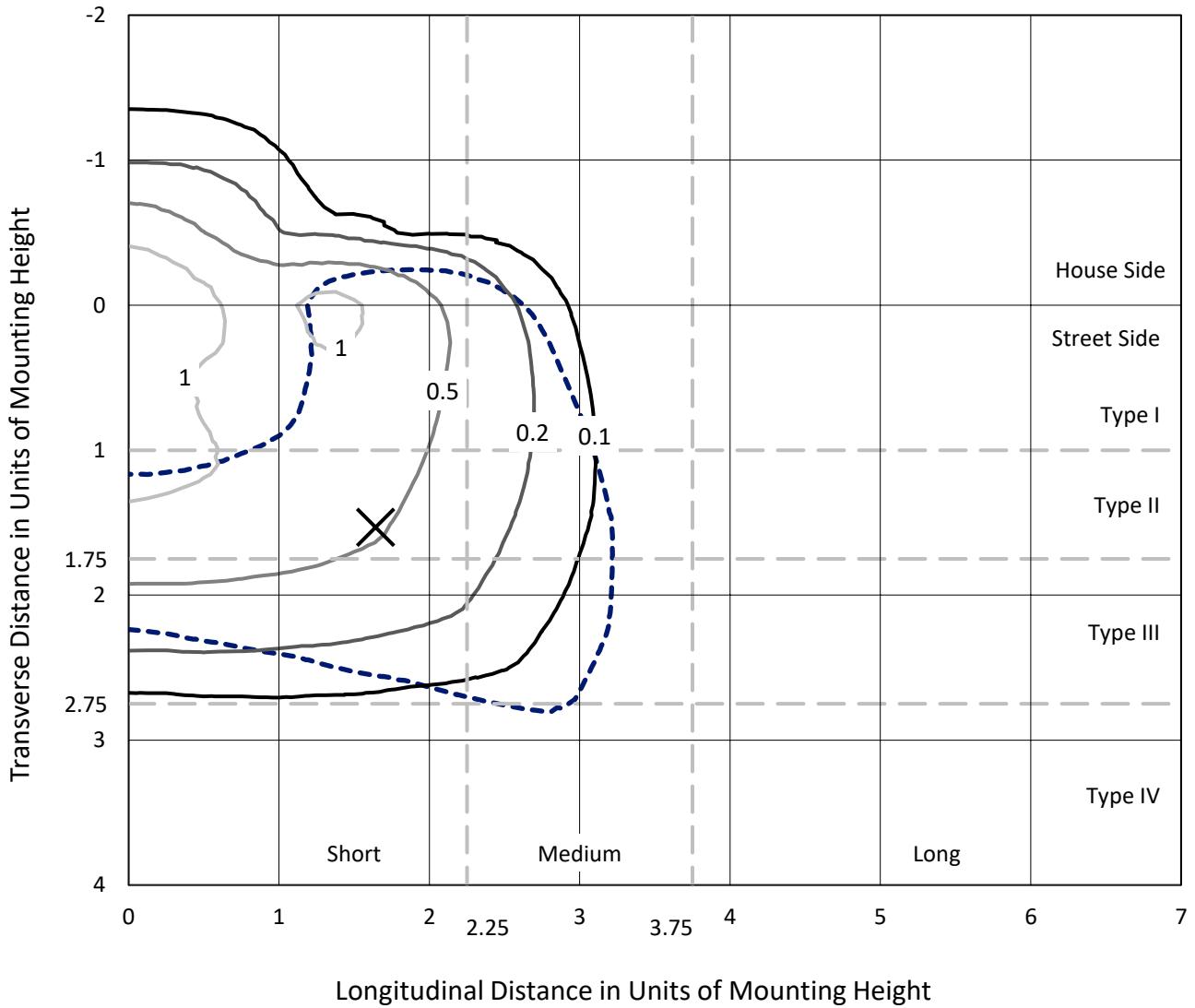
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

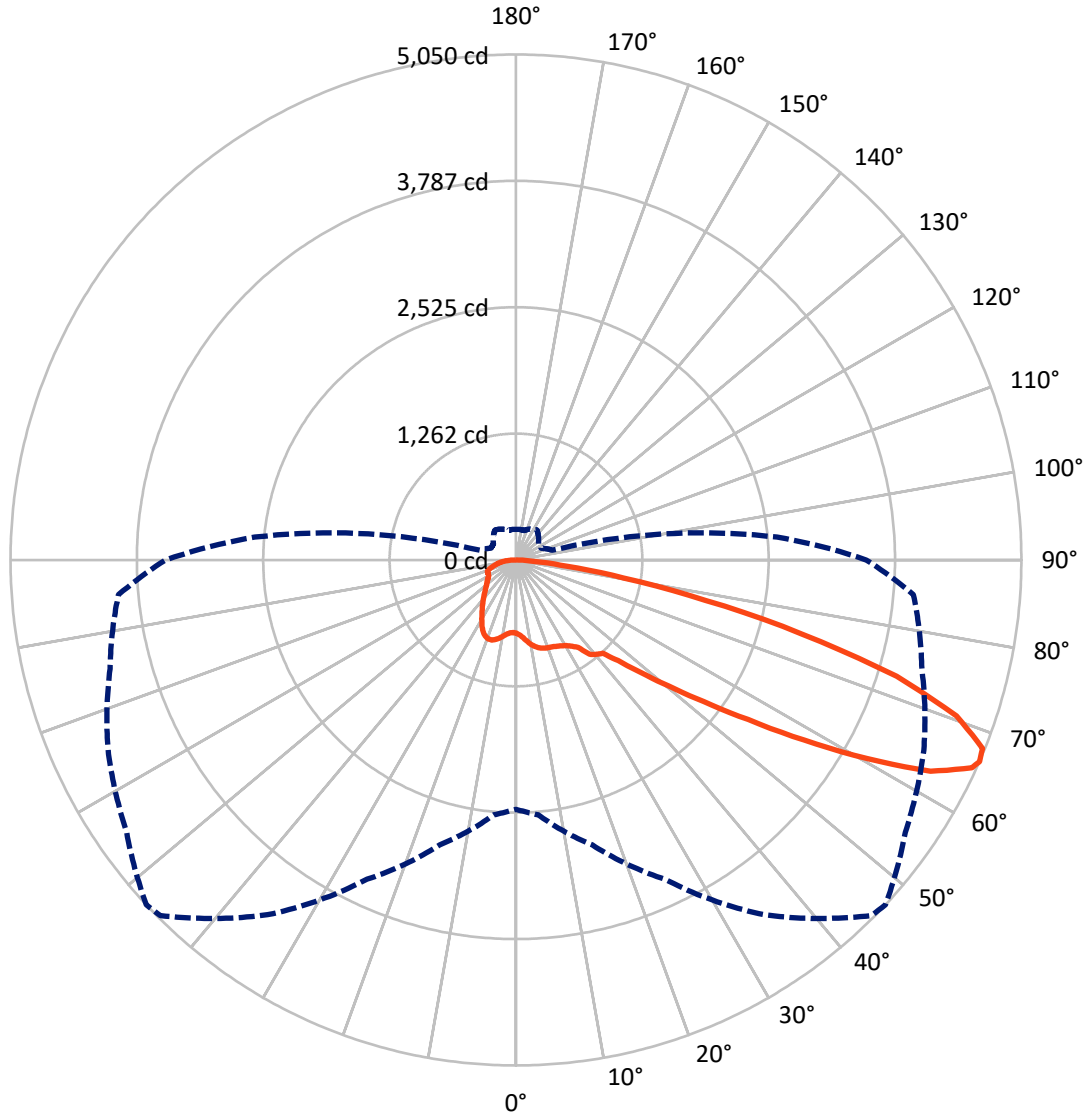
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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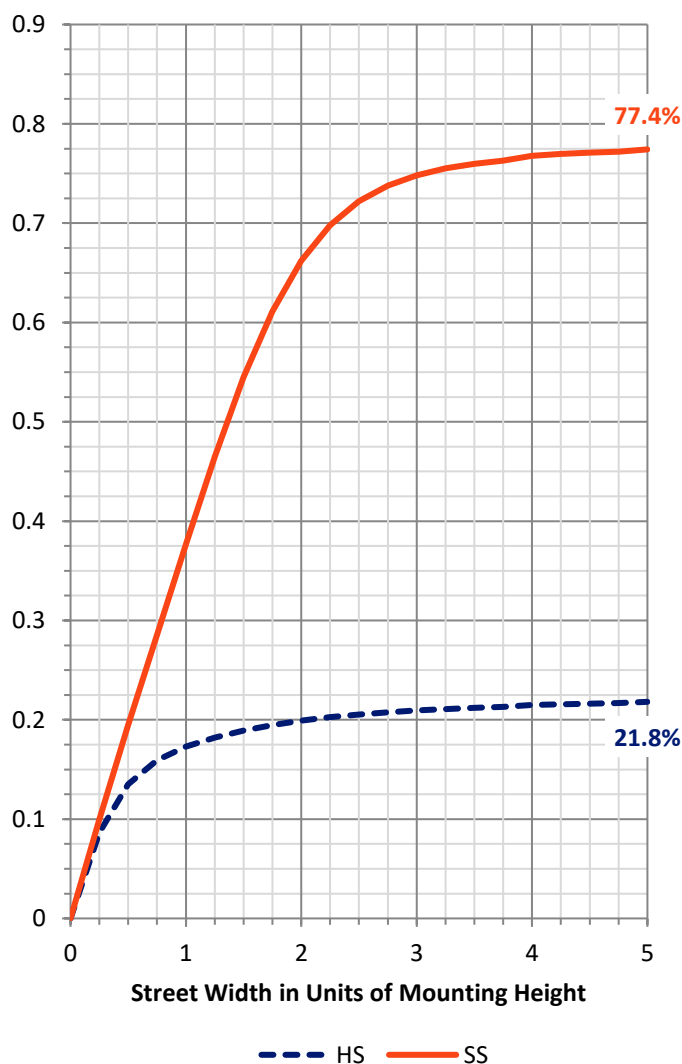
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.2	0.0	1617.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	5656.8	0.0	5656.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	7274.0	0.0	7274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.0
10°-20°	244.1	3.4
20°-30°	407.2	5.6
30°-40°	591.3	8.1
40°-50°	904.3	12.4
50°-60°	1709.4	23.5
60°-70°	2208.8	30.4
70°-80°	992.8	13.6
80°-90°	141.6	1.9
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°	7274.0	100.0
0°-180°	7274.0	100.0

Coefficient of Utilization



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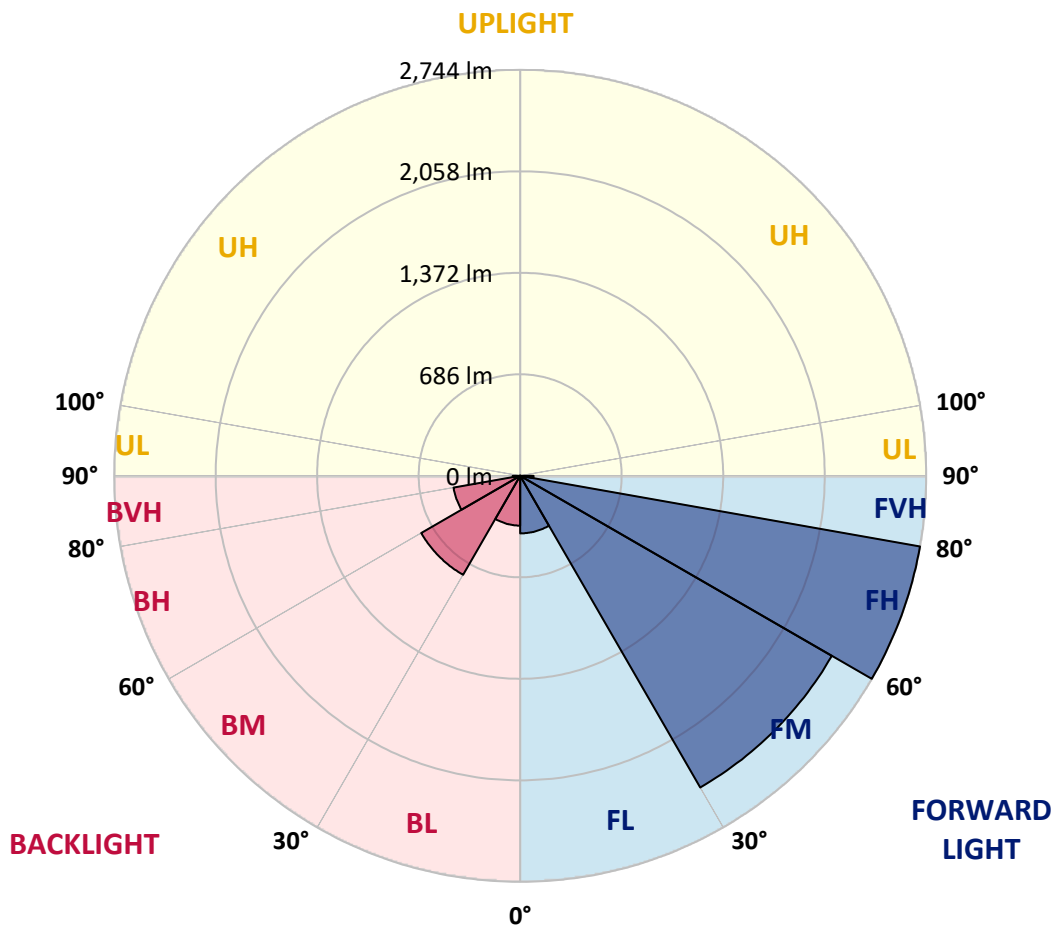
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.2	5.4			
FM (30°-60°)	2432.6	33.4			
FH (60°-80°)	2744.0	37.7			G2/5000
FVH (80°-90°)	91.0	1.3			G1/100
BL (0°-30°)	336.6	4.6	B1/500		
BM (30°-60°)	772.5	10.6	B1/1000		
BH (60°-80°)	457.6	6.3	B1/500		G1/500
BVH (80°-90°)	50.6	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3
2.5°	772.8	766.8	762.9	760.9	757.0	749.0	749.0	747.1	739.2	735.2	733.2
5°	834.0	830.1	820.2	812.3	800.4	784.6	782.6	770.8	755.0	743.1	735.2
7.5°	893.3	889.4	879.5	867.6	847.9	828.1	822.2	806.4	780.7	762.9	749.0
10°	944.7	938.8	926.9	911.1	889.4	867.6	861.7	843.9	818.2	792.5	768.8
12.5°	978.3	974.4	960.5	940.8	917.0	895.3	891.3	875.5	849.8	822.2	792.5
15°	994.1	992.1	976.3	956.6	932.8	915.1	913.1	899.2	877.5	849.8	816.2
17.5°	990.2	988.2	974.4	954.6	936.8	926.9	926.9	917.0	899.2	875.5	840.0
20°	970.4	970.4	958.5	944.7	934.8	932.8	932.8	930.9	919.0	899.2	863.7
22.5°	950.6	950.6	942.7	932.8	930.9	938.8	940.8	944.7	940.8	924.9	893.3
25°	954.6	952.6	942.7	930.9	932.8	950.6	954.6	964.5	962.5	950.6	923.0
27.5°	998.1	996.1	970.4	946.7	944.7	966.4	970.4	984.2	984.2	974.4	956.6
30°	1106.8	1110.7	1063.3	1004.0	974.4	988.2	992.1	1008.0	1015.9	1019.8	1006.0
32.5°	1272.8	1266.9	1195.7	1098.9	1033.6	1019.8	1025.7	1039.6	1067.2	1075.1	1041.5
35°	1440.8	1444.7	1375.6	1253.0	1128.5	1077.1	1073.2	1092.9	1134.4	1098.9	1039.6
37.5°	1596.9	1591.0	1509.9	1377.5	1253.0	1193.7	1195.7	1187.8	1152.2	1081.1	1053.4
40°	1766.9	1751.1	1683.9	1513.9	1355.8	1257.0	1239.2	1172.0	1142.3	1112.7	1108.7
42.5°	1934.9	1936.8	1881.5	1713.5	1478.3	1302.4	1274.8	1205.6	1225.4	1219.4	1215.5
45°	2146.3	2146.3	2091.0	1934.9	1672.0	1472.4	1434.8	1351.8	1383.5	1407.2	1454.6
47.5°	2340.0	2328.2	2312.4	2179.9	1925.0	1693.8	1677.9	1583.1	1666.1	1739.2	1836.1
50°	2545.6	2529.8	2519.9	2438.8	2257.0	2029.7	1982.3	1883.5	2065.3	2201.7	2381.5
52.5°	2865.7	2838.1	2786.7	2741.2	2670.1	2407.2	2347.9	2274.8	2510.0	2681.9	3049.5
55°	3154.3	3130.6	3081.2	3114.8	3104.9	2865.7	2814.4	2745.2	3000.1	3209.6	3630.6
57.5°	3261.0	3263.0	3330.2	3510.0	3604.9	3466.6	3393.4	3324.3	3539.7	3636.5	4016.0
60°	3310.4	3304.5	3478.4	3770.9	4079.2	4120.7	4027.8	3885.6	3966.6	3972.5	4342.1
62.5°	3203.7	3219.5	3458.7	3879.6	4363.8	4662.3	4648.4	4399.4	4324.3	4241.3	4429.1
65°	2798.5	2820.3	3172.1	3685.9	4409.3	4990.3	5004.2	4713.7	4504.2	4272.9	4182.0
66°	2490.2	2555.5	2946.8	3517.9	4326.3	5023.9	5049.6	4747.2	4496.2	4197.8	3986.3
67.5°	2089.0	2085.1	2521.9	3148.4	4095.0	4994.3	5027.9	4699.8	4389.5	3976.5	3595.0
70°	1278.7	1318.2	1693.8	2349.9	3389.5	4624.7	4670.2	4365.8	3929.0	3367.7	2658.2
72.5°	656.2	721.4	968.4	1527.7	2460.6	3822.3	3976.5	3666.2	3211.6	2436.9	1622.6
75°	347.8	343.9	456.5	828.1	1571.2	2867.7	2948.7	2749.1	2219.5	1452.6	826.1
77.5°	185.8	195.7	239.1	424.9	863.7	1832.1	1934.9	1772.8	1264.9	743.1	395.3
80°	126.5	132.4	162.1	239.1	468.4	994.1	1089.0	944.7	662.1	351.8	185.8
82.5°	81.0	85.0	110.7	148.2	280.6	482.2	507.9	484.2	324.1	199.6	112.7
85°	49.4	51.4	67.2	94.9	175.9	195.7	203.6	205.5	181.8	130.4	61.3
87.5°	23.7	25.7	37.6	47.4	83.0	71.1	65.2	67.2	100.8	77.1	27.7
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°	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3	731.3
2.5°	731.3	729.3	725.3	723.4	725.3	725.3	725.3	727.3	731.3	731.3	733.2
5°	731.3	727.3	723.4	723.4	727.3	731.3	735.2	743.1	747.1	749.0	749.0
7.5°	741.1	737.2	733.2	733.2	739.2	747.1	755.0	764.9	774.7	782.6	782.6
10°	760.9	755.0	751.0	753.0	762.9	772.8	782.6	794.5	804.4	814.3	814.3
12.5°	782.6	776.7	770.8	774.7	788.6	800.4	810.3	816.2	826.1	834.0	834.0
15°	804.4	794.5	792.5	800.4	814.3	822.2	826.1	826.1	830.1	838.0	838.0
17.5°	828.1	818.2	816.2	824.1	836.0	836.0	828.1	822.2	820.2	826.1	828.1
20°	851.8	841.9	841.9	847.9	845.9	832.1	818.2	808.3	800.4	806.4	808.3
22.5°	881.5	871.6	867.6	859.7	841.9	814.3	792.5	780.7	774.7	778.7	782.6
25°	911.1	903.2	893.3	865.7	824.1	780.7	753.0	743.1	745.1	753.0	757.0
27.5°	948.7	944.7	921.0	861.7	792.5	733.2	705.6	703.6	711.5	723.4	729.3
30°	994.1	988.2	946.7	849.8	749.0	677.9	658.1	662.1	673.9	683.8	689.8
32.5°	1025.7	1021.8	958.5	822.2	695.7	628.5	612.7	612.7	618.6	632.4	638.4
35°	1035.6	1051.4	966.4	780.7	632.4	585.0	569.2	559.3	559.3	571.2	575.1
37.5°	1069.2	1104.8	970.4	725.3	581.1	545.5	525.7	507.9	502.0	500.0	500.0
40°	1146.3	1187.8	968.4	654.2	531.6	506.0	482.2	462.5	446.7	424.9	426.9
42.5°	1280.7	1312.3	962.5	579.1	488.2	470.4	446.7	422.9	397.3	373.5	371.6
45°	1539.6	1492.2	946.7	513.9	448.6	438.8	417.0	389.3	357.7	336.0	336.0
47.5°	1948.7	1818.3	936.8	452.6	413.1	411.1	391.3	361.7	330.1	314.2	312.3
50°	2510.0	2268.9	952.6	409.1	381.4	387.4	371.6	343.9	318.2	304.4	302.4
52.5°	3154.3	2753.1	970.4	381.4	357.7	369.6	361.7	336.0	310.3	298.4	296.5
55°	3652.3	3146.4	944.7	355.7	334.0	351.8	351.8	328.1	306.3	294.5	294.5
57.5°	4002.2	3304.5	855.8	332.0	314.2	336.0	341.9	324.1	304.4	300.4	300.4
60°	4152.4	3296.6	699.6	310.3	300.4	320.2	336.0	320.2	308.3	318.2	320.2
62.5°	4071.3	3124.6	543.5	294.5	290.5	316.2	341.9	336.0	322.1	330.1	334.0
65°	3705.7	2822.3	409.1	280.6	278.7	318.2	357.7	345.9	312.3	314.2	316.2
66°	3500.2	2618.7	375.5	276.7	274.7	320.2	365.6	341.9	304.4	308.3	306.3
67.5°	3061.4	2298.5	330.1	268.8	266.8	320.2	375.5	334.0	294.5	300.4	294.5
70°	2245.2	1626.6	282.6	258.9	255.0	314.2	373.5	318.2	272.7	268.8	258.9
72.5°	1302.4	984.2	251.0	247.0	237.2	276.7	349.8	292.5	249.0	237.2	227.3
75°	640.3	500.0	223.3	233.2	207.5	243.1	316.2	270.8	229.3	213.4	207.5
77.5°	294.5	253.0	201.6	213.4	183.8	209.5	288.6	247.0	203.6	179.8	173.9
80°	160.1	158.1	170.0	177.9	154.2	183.8	255.0	215.4	171.9	146.3	138.3
82.5°	98.8	100.8	124.5	136.4	120.6	160.1	225.3	179.8	130.4	102.8	104.7
85°	51.4	57.3	83.0	90.9	79.1	118.6	170.0	120.6	73.1	53.4	53.4
87.5°	17.8	23.7	41.5	49.4	43.5	71.1	106.7	57.3	15.8	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)