

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: P573218

Luminaire Tested: **ARCH-S-PA2-50-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573218
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-PA2-50-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 6679 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

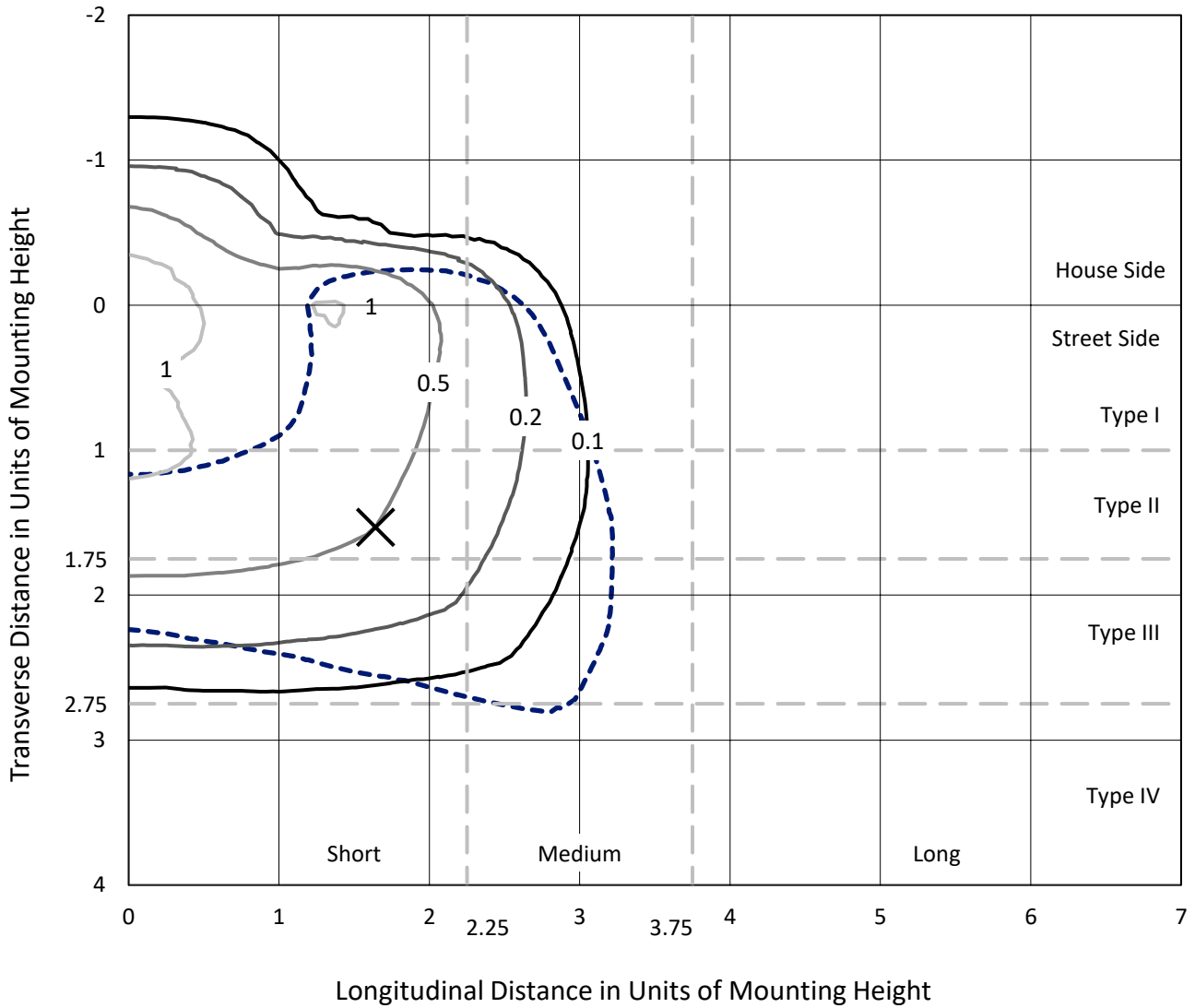
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

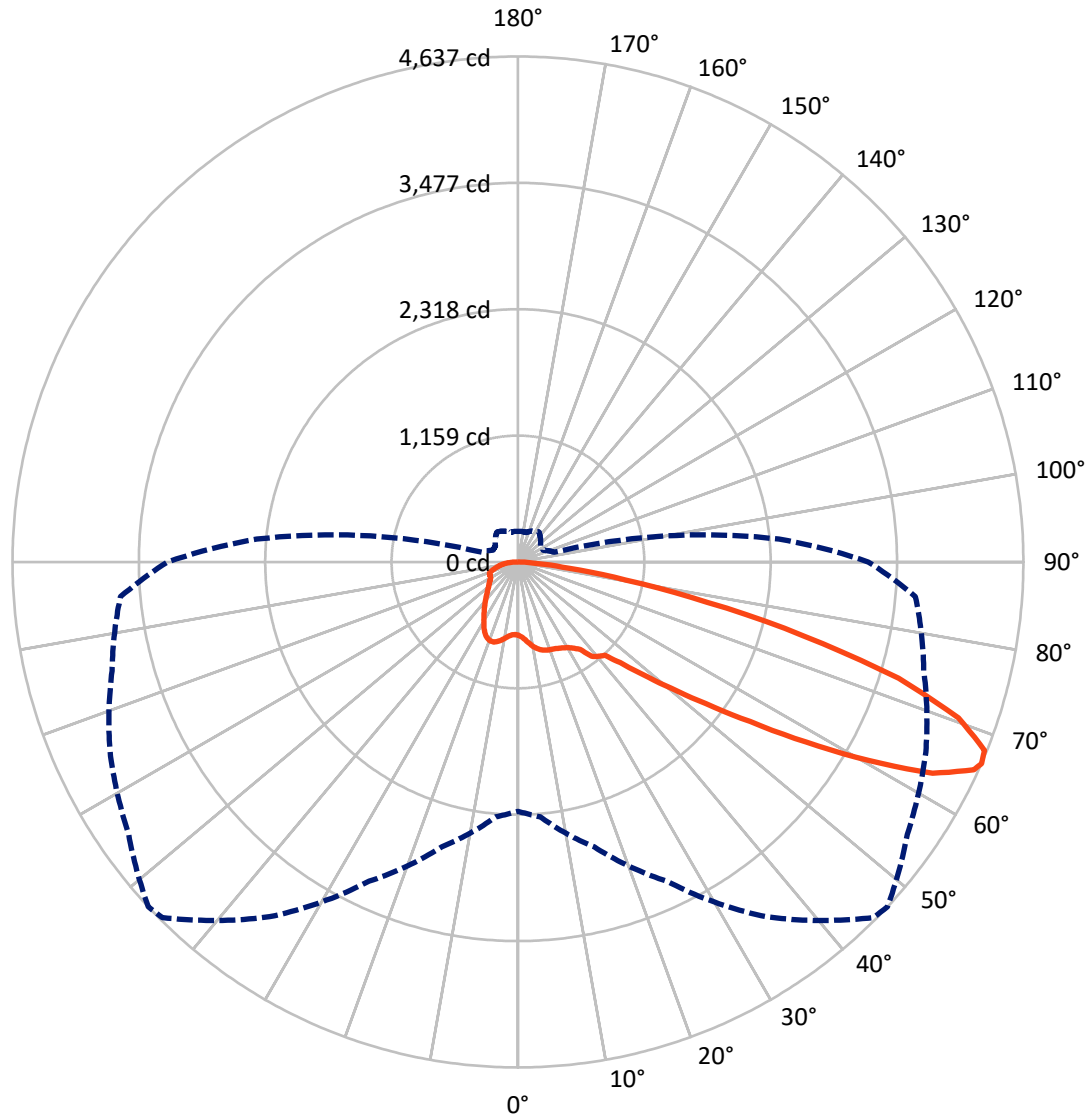
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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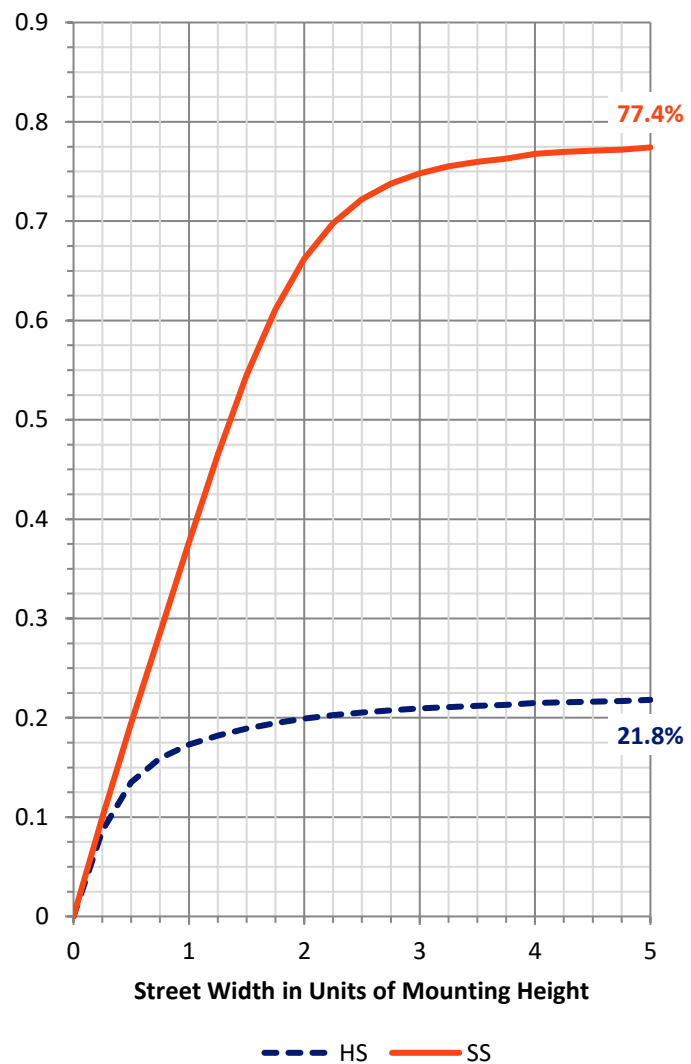
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.9	0.0	1484.9
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	5194.1	0.0	5194.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	6679.0	0.0	6679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.0
10°-20°	224.2	3.4
20°-30°	373.9	5.6
30°-40°	542.9	8.1
40°-50°	830.4	12.4
50°-60°	1569.6	23.5
60°-70°	2028.1	30.4
70°-80°	911.6	13.6
80°-90°	130.0	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°	6679.0	100.0
0°-180°	6679.0	100.0



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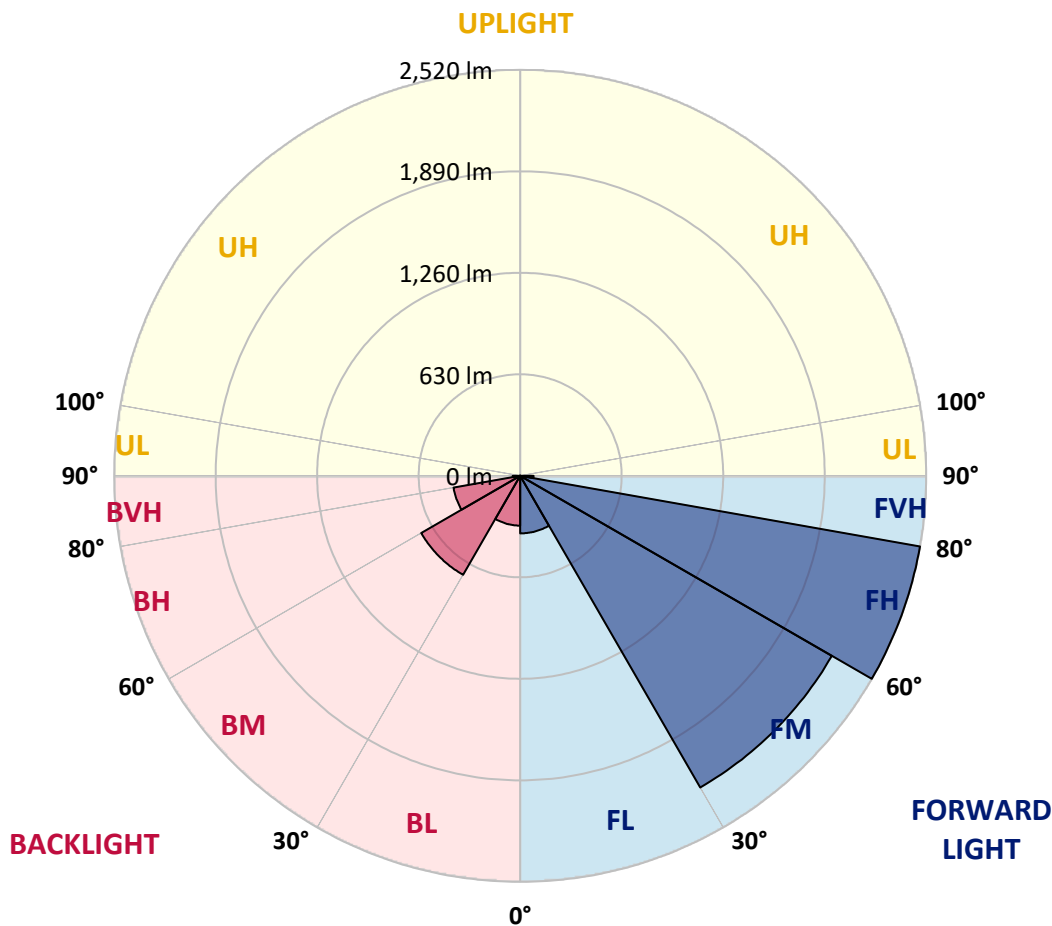
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.3	5.4			
FM (30°-60°)	2233.6	33.4			
FH (60°-80°)	2519.6	37.7			G2/5000
FVH (80°-90°)	83.6	1.3			G1/100
BL (0°-30°)	309.0	4.6	B1/500		
BM (30°-60°)	709.3	10.6	B1/1000		
BH (60°-80°)	420.2	6.3	B1/500		G1/500
BVH (80°-90°)	46.5	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°	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4
2.5°	709.6	704.1	700.5	698.7	695.0	687.8	687.8	686.0	678.7	675.1	673.3
5°	765.8	762.2	753.1	745.8	735.0	720.4	718.6	707.7	693.2	682.3	675.1
7.5°	820.2	816.6	807.5	796.7	778.5	760.4	754.9	740.4	716.8	700.5	687.8
10°	867.4	862.0	851.1	836.6	816.6	796.7	791.2	774.9	751.3	727.7	705.9
12.5°	898.3	894.7	881.9	863.8	842.0	822.1	818.4	803.9	780.3	754.9	727.7
15°	912.8	911.0	896.5	878.3	856.5	840.2	838.4	825.7	805.7	780.3	749.5
17.5°	909.2	907.4	894.7	876.5	860.2	851.1	851.1	842.0	825.7	803.9	771.3
20°	891.0	891.0	880.1	867.4	858.4	856.5	856.5	854.7	843.8	825.7	793.0
22.5°	872.9	872.9	865.6	856.5	854.7	862.0	863.8	867.4	863.8	849.3	820.2
25°	876.5	874.7	865.6	854.7	856.5	872.9	876.5	885.6	883.8	872.9	847.5
27.5°	916.4	914.6	891.0	869.2	867.4	887.4	891.0	903.7	903.7	894.7	878.3
30°	1016.2	1019.9	976.3	921.9	894.7	907.4	911.0	925.5	932.8	936.4	923.7
32.5°	1168.7	1163.2	1097.9	1009.0	949.1	936.4	941.8	954.5	979.9	987.2	956.4
35°	1322.9	1326.6	1263.0	1150.5	1036.2	989.0	985.4	1003.5	1041.6	1009.0	954.5
37.5°	1466.3	1460.8	1386.4	1264.9	1150.5	1096.1	1097.9	1090.6	1058.0	992.6	967.2
40°	1622.4	1607.8	1546.1	1390.1	1244.9	1154.2	1137.8	1076.1	1048.9	1021.7	1018.1
42.5°	1776.6	1778.4	1727.6	1573.4	1357.4	1195.9	1170.5	1107.0	1125.1	1119.7	1116.0
45°	1970.8	1970.8	1920.0	1776.6	1535.2	1352.0	1317.5	1241.3	1270.3	1292.1	1335.6
47.5°	2148.6	2137.7	2123.2	2001.6	1767.5	1555.2	1540.7	1453.6	1529.8	1596.9	1685.9
50°	2337.3	2322.8	2313.8	2239.4	2072.4	1863.7	1820.2	1729.4	1896.4	2021.6	2186.7
52.5°	2631.3	2605.9	2558.7	2517.0	2451.7	2210.3	2155.9	2088.7	2304.7	2462.6	2800.1
55°	2896.3	2874.5	2829.1	2860.0	2850.9	2631.3	2584.1	2520.6	2754.7	2947.1	3333.6
57.5°	2994.3	2996.1	3057.8	3222.9	3310.0	3183.0	3115.9	3052.3	3250.1	3339.1	3687.5
60°	3039.6	3034.2	3193.9	3462.5	3745.6	3783.7	3698.4	3567.7	3642.1	3647.6	3986.9
62.5°	2941.6	2956.2	3175.7	3562.3	4006.9	4280.9	4268.2	4039.5	3970.6	3894.4	4066.8
65°	2569.6	2589.6	2912.6	3384.4	4048.6	4582.1	4594.8	4328.1	4135.7	3923.4	3839.9
66°	2286.5	2346.4	2705.7	3230.2	3972.4	4613.0	4636.6	4358.9	4128.5	3854.4	3660.3
67.5°	1918.1	1914.5	2315.6	2890.8	3760.1	4585.8	4616.6	4315.4	4030.5	3651.2	3301.0
70°	1174.1	1210.4	1555.2	2157.7	3112.2	4246.4	4288.2	4008.7	3607.6	3092.3	2440.8
72.5°	602.5	662.4	889.2	1402.8	2259.3	3509.6	3651.2	3366.3	2948.9	2237.5	1489.9
75°	319.4	315.8	419.2	760.4	1442.7	2633.1	2707.5	2524.3	2037.9	1333.8	758.5
77.5°	170.6	179.7	219.6	390.2	793.0	1682.2	1776.6	1627.8	1161.4	682.3	362.9
80°	116.1	121.6	148.8	219.6	430.1	912.8	999.9	867.4	607.9	323.0	170.6
82.5°	74.4	78.0	101.6	136.1	257.7	442.8	466.4	444.6	297.6	183.3	103.4
85°	45.4	47.2	61.7	87.1	161.5	179.7	186.9	188.7	167.0	119.8	56.3
87.5°	21.8	23.6	34.5	43.6	76.2	65.3	59.9	61.7	92.6	70.8	25.4
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°	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4
2.5°	671.4	669.6	666.0	664.2	666.0	666.0	666.0	667.8	671.4	671.4	673.3
5°	671.4	667.8	664.2	664.2	667.8	671.4	675.1	682.3	686.0	687.8	687.8
7.5°	680.5	676.9	673.3	673.3	678.7	686.0	693.2	702.3	711.4	718.6	718.6
10°	698.7	693.2	689.6	691.4	700.5	709.6	718.6	729.5	738.6	747.7	747.7
12.5°	718.6	713.2	707.7	711.4	724.1	735.0	744.0	749.5	758.5	765.8	765.8
15°	738.6	729.5	727.7	735.0	747.7	754.9	758.5	758.5	762.2	769.4	769.4
17.5°	760.4	751.3	749.5	756.7	767.6	767.6	760.4	754.9	753.1	758.5	760.4
20°	782.1	773.1	773.1	778.5	776.7	764.0	751.3	742.2	735.0	740.4	742.2
22.5°	809.4	800.3	796.7	789.4	773.1	747.7	727.7	716.8	711.4	715.0	718.6
25°	836.6	829.3	820.2	794.8	756.7	716.8	691.4	682.3	684.1	691.4	695.0
27.5°	871.1	867.4	845.7	791.2	727.7	673.3	647.9	646.0	653.3	664.2	669.6
30°	912.8	907.4	869.2	780.3	687.8	622.4	604.3	607.9	618.8	627.9	633.3
32.5°	941.8	938.2	880.1	754.9	638.8	577.1	562.6	562.6	568.0	580.7	586.2
35°	950.9	965.4	887.4	716.8	580.7	537.2	522.6	513.6	513.6	524.5	528.1
37.5°	981.8	1014.4	891.0	666.0	533.5	500.9	482.7	466.4	460.9	459.1	459.1
40°	1052.5	1090.6	889.2	600.7	488.2	464.6	442.8	424.6	410.1	390.2	392.0
42.5°	1175.9	1205.0	883.8	531.7	448.2	431.9	410.1	388.3	364.8	343.0	341.2
45°	1413.7	1370.1	869.2	471.8	411.9	402.9	382.9	357.5	328.5	308.5	308.5
47.5°	1789.3	1669.5	860.2	415.6	379.3	377.5	359.3	332.1	303.1	288.5	286.7
50°	2304.7	2083.3	874.7	375.6	350.2	355.7	341.2	315.8	292.2	279.5	277.7
52.5°	2896.3	2527.9	891.0	350.2	328.5	339.4	332.1	308.5	284.9	274.0	272.2
55°	3353.6	2889.0	867.4	326.6	306.7	323.0	323.0	301.2	281.3	270.4	270.4
57.5°	3674.8	3034.2	785.8	304.9	288.5	308.5	313.9	297.6	279.5	275.8	275.8
60°	3812.7	3026.9	642.4	284.9	275.8	294.0	308.5	294.0	283.1	292.2	294.0
62.5°	3738.3	2869.1	499.0	270.4	266.8	290.4	313.9	308.5	295.8	303.1	306.7
65°	3402.6	2591.4	375.6	257.7	255.9	292.2	328.5	317.6	286.7	288.5	290.4
66°	3213.9	2404.5	344.8	254.1	252.2	294.0	335.7	313.9	279.5	283.1	281.3
67.5°	2811.0	2110.5	303.1	246.8	245.0	294.0	344.8	306.7	270.4	275.8	270.4
70°	2061.5	1493.5	259.5	237.7	234.1	288.5	343.0	292.2	250.4	246.8	237.7
72.5°	1195.9	903.7	230.5	226.8	217.8	254.1	321.2	268.6	228.7	217.8	208.7
75°	588.0	459.1	205.1	214.1	190.5	223.2	290.4	248.6	210.5	196.0	190.5
77.5°	270.4	232.3	185.1	196.0	168.8	192.4	264.9	226.8	186.9	165.1	159.7
80°	147.0	145.2	156.1	163.3	141.5	168.8	234.1	197.8	157.9	134.3	127.0
82.5°	90.7	92.6	114.3	125.2	110.7	147.0	206.9	165.1	119.8	94.4	96.2
85°	47.2	52.6	76.2	83.5	72.6	108.9	156.1	110.7	67.1	49.0	49.0
87.5°	16.3	21.8	38.1	45.4	39.9	65.3	98.0	52.6	14.5	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)