

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: P573433

Luminaire Tested: **ARCH-S-PA2-70-827-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5769 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

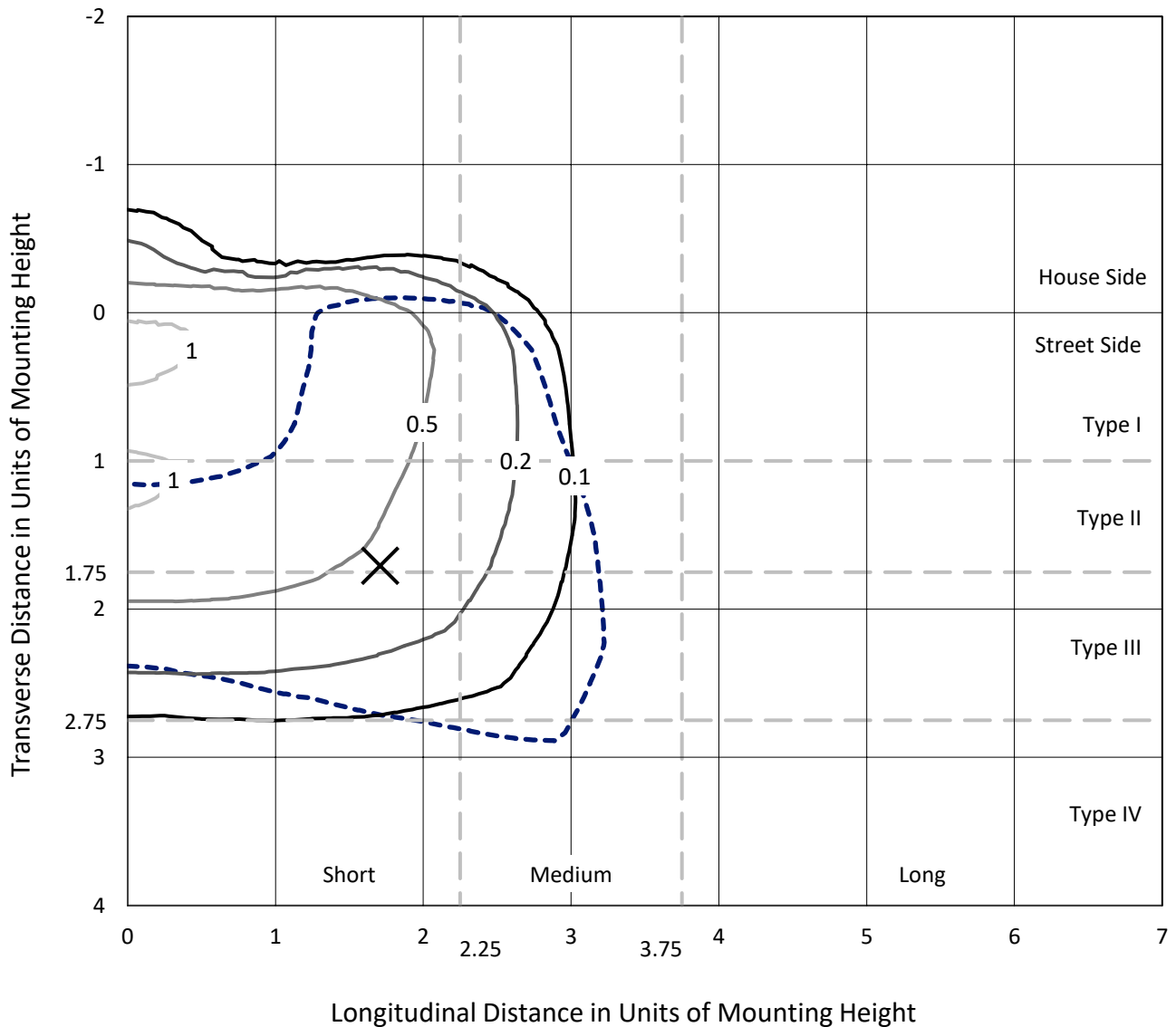
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

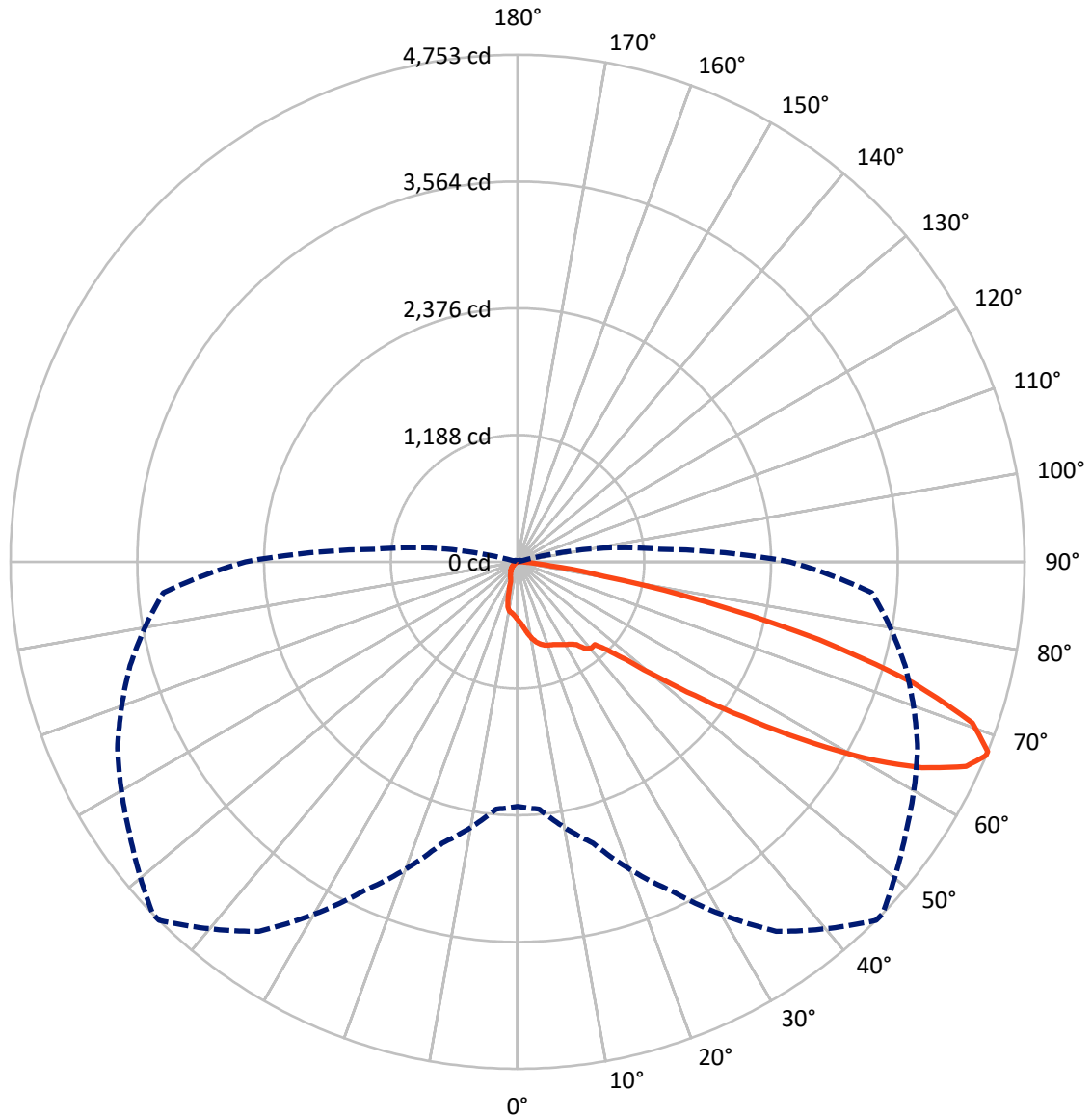
✕ Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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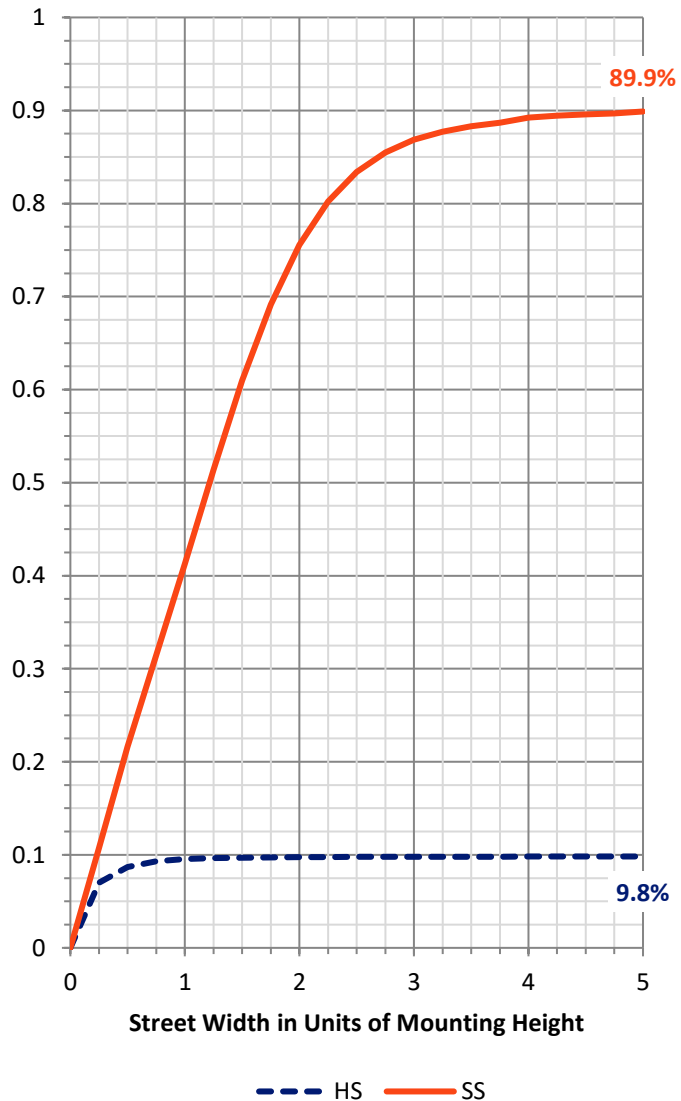
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.6	0.0	571.6
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	5197.4	0.0	5197.4
	% Fixture	90.1	0.0	90.1
Total	Lumens	5769.0	0.0	5769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	0.9
10°-20°	165.5	2.9
20°-30°	264.8	4.6
30°-40°	381.1	6.6
40°-50°	668.6	11.6
50°-60°	1408.8	24.4
60°-70°	1948.1	33.8
70°-80°	815.6	14.1
80°-90°	61.7	1.1
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°	5769.0	100.0
0°-180°	5769.0	100.0

Coefficient of Utilization

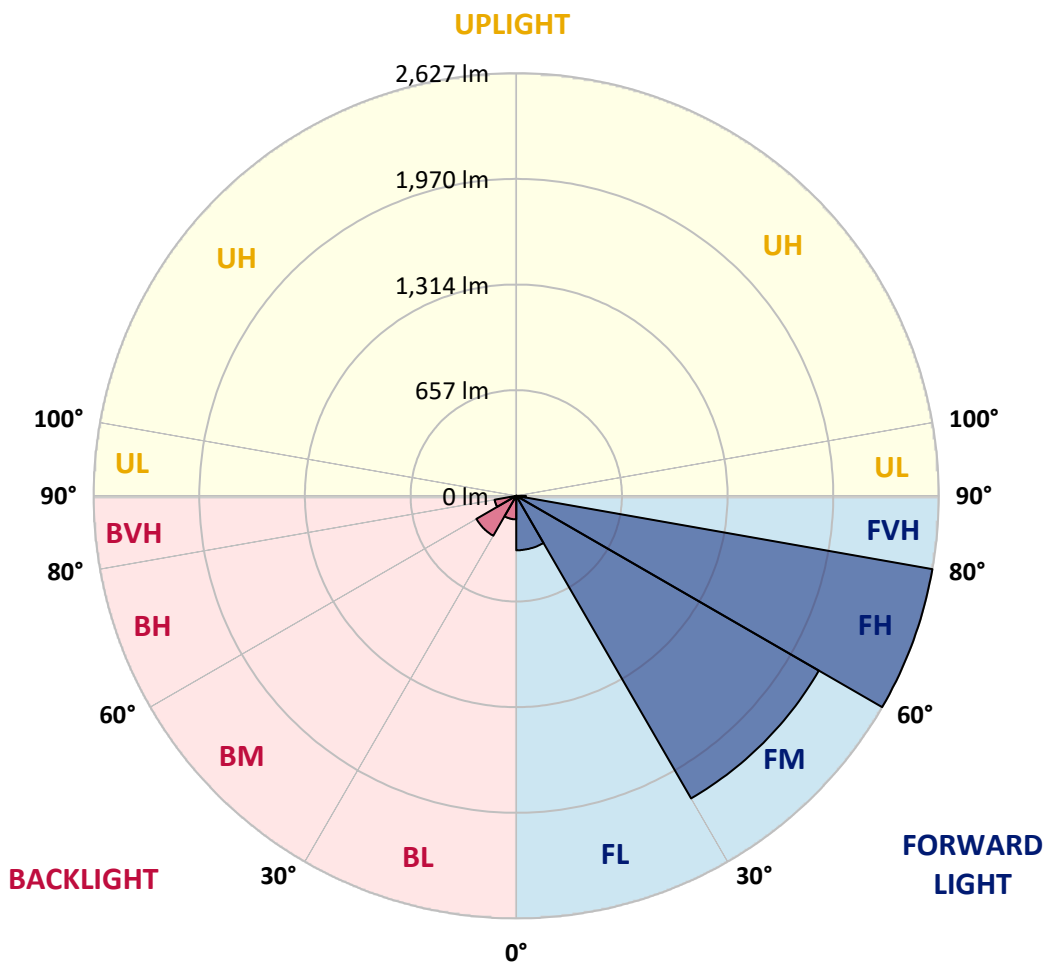


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.6	5.9			
FM (30°-60°)	2172.1	37.7			
FH (60°-80°)	2627.1	45.5			G2/5000
FVH (80°-90°)	59.6	1.0			G1/100
BL (0°-30°)	146.5	2.5	B1/500		
BM (30°-60°)	286.4	5.0	B1/1000		
BH (60°-80°)	136.6	2.4	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6
2.5°	607.4	596.7	594.6	592.5	586.1	577.6	579.7	573.3	562.6	556.2	549.9
5°	682.0	671.3	667.1	654.3	641.5	622.3	622.3	605.3	586.1	569.0	552.0
7.5°	758.7	750.2	741.7	722.5	703.3	677.7	675.6	650.0	620.2	594.6	566.9
10°	822.7	816.3	805.6	782.2	756.6	728.9	722.5	699.0	660.7	626.6	590.3
12.5°	873.8	867.4	852.5	829.0	797.1	769.4	767.2	737.4	699.0	662.8	618.1
15°	912.2	901.5	884.5	858.9	826.9	801.3	797.1	771.5	735.3	694.8	641.5
17.5°	918.6	912.2	897.2	869.5	841.8	820.5	818.4	799.2	767.2	724.6	669.2
20°	901.5	899.4	886.6	865.3	844.0	833.3	831.2	818.4	792.8	754.5	699.0
22.5°	875.9	873.8	865.3	854.6	846.1	844.0	844.0	839.7	824.8	788.6	737.4
25°	858.9	856.8	852.5	846.1	846.1	858.9	861.0	865.3	852.5	824.8	769.4
27.5°	861.0	856.8	852.5	846.1	854.6	878.1	880.2	890.8	880.2	854.6	805.6
30°	890.8	884.5	871.7	856.8	867.4	899.4	901.5	914.3	905.8	893.0	846.1
32.5°	937.7	933.5	907.9	882.3	888.7	920.7	924.9	948.4	959.0	939.9	882.3
35°	1005.9	991.0	959.0	933.5	929.2	952.7	959.0	997.4	1025.1	978.2	903.6
37.5°	1061.3	1048.6	997.4	956.9	980.4	1033.6	1035.8	1082.7	1059.2	982.5	937.7
40°	1248.9	1246.8	1157.3	1029.4	1003.8	1063.5	1072.0	1080.5	1069.9	1031.5	1012.3
42.5°	1551.5	1526.0	1425.8	1229.7	1055.0	1061.3	1065.6	1110.4	1165.8	1148.7	1155.1
45°	1879.7	1858.4	1745.5	1498.2	1229.7	1176.4	1180.7	1253.2	1359.7	1381.0	1415.1
47.5°	2182.4	2148.3	2084.3	1835.0	1528.1	1372.5	1381.0	1468.4	1645.3	1692.2	1745.5
50°	2438.1	2414.7	2355.0	2190.9	1894.7	1681.5	1690.1	1762.5	1992.7	2067.3	2135.5
52.5°	2808.9	2777.0	2661.9	2585.2	2361.4	2084.3	2065.2	2141.9	2406.1	2455.2	2546.8
55°	3149.9	3083.9	3015.7	2983.7	2889.9	2566.0	2559.6	2574.5	2794.0	2819.6	2983.7
57.5°	3294.9	3282.1	3339.6	3446.2	3467.5	3132.9	3105.2	3047.6	3220.3	3218.1	3410.0
60°	3386.5	3386.5	3540.0	3804.2	3974.7	3738.2	3699.8	3520.8	3582.6	3584.7	3761.6
62.5°	3329.0	3343.9	3582.6	3981.1	4324.2	4251.8	4226.2	3925.7	3921.4	3872.4	3934.2
65°	2973.1	2998.6	3382.2	3883.1	4452.1	4622.6	4612.0	4271.0	4147.4	3968.3	3829.8
67°	2425.3	2472.2	2936.8	3529.3	4307.2	4750.5	4752.6	4420.1	4149.5	3808.5	3461.1
67.5°	2293.2	2327.3	2730.1	3401.4	4228.3	4752.6	4752.6	4439.3	4136.7	3759.5	3333.2
70°	1462.0	1470.5	1909.6	2632.1	3612.4	4522.4	4539.5	4294.4	3768.0	3043.4	2340.1
72.5°	722.5	703.3	1008.1	1694.3	2710.9	3870.3	3915.0	3667.8	2981.6	1988.4	1236.1
75°	283.5	302.6	439.0	901.5	1698.6	2917.6	2951.7	2668.3	1918.1	1025.1	488.0
77.5°	125.7	125.7	187.5	404.9	893.0	1790.2	1807.3	1628.3	1012.3	422.0	149.2
80°	68.2	72.5	98.0	176.9	449.7	822.7	897.2	807.7	458.2	185.4	51.1
82.5°	34.1	36.2	59.7	100.2	225.9	311.2	328.2	343.1	211.0	115.1	21.3
85°	12.8	14.9	32.0	57.5	102.3	104.4	104.4	134.3	115.1	87.4	10.7
87.5°	2.1	4.3	14.9	23.4	40.5	36.2	32.0	42.6	63.9	55.4	6.4
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°	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6	545.6
2.5°	545.6	541.3	532.8	526.4	522.1	517.9	513.6	513.6	511.5	511.5	513.6
5°	545.6	537.1	520.0	509.4	500.8	494.4	490.2	490.2	488.0	490.2	492.3
7.5°	556.2	543.5	520.0	500.8	490.2	479.5	475.3	473.1	473.1	475.3	473.1
10°	573.3	556.2	526.4	500.8	485.9	471.0	447.6	426.2	407.1	398.5	396.4
12.5°	594.6	573.3	537.1	507.2	483.8	432.6	368.7	328.2	302.6	289.8	285.6
15°	618.1	592.5	549.9	515.8	451.8	355.9	272.8	228.0	213.1	215.3	217.4
17.5°	643.6	615.9	569.0	511.5	387.9	264.3	200.3	189.7	196.1	202.5	202.5
20°	669.2	639.4	588.2	479.5	304.8	196.1	179.0	181.2	187.5	193.9	193.9
22.5°	703.3	671.3	607.4	424.1	225.9	170.5	170.5	174.8	179.0	185.4	185.4
25°	739.5	707.6	620.2	355.9	168.4	159.8	162.0	166.2	170.5	176.9	176.9
27.5°	777.9	745.9	618.1	274.9	147.1	147.1	149.2	155.6	159.8	166.2	166.2
30°	820.5	792.8	594.6	200.3	136.4	134.3	134.3	140.7	147.1	151.3	153.4
32.5°	856.8	833.3	554.1	151.3	127.9	123.6	121.5	123.6	130.0	134.3	136.4
35°	886.6	878.1	494.4	130.0	119.3	113.0	108.7	106.6	108.7	108.7	110.8
37.5°	942.0	944.1	424.1	121.5	113.0	104.4	95.9	89.5	85.2	83.1	81.0
40°	1046.4	1044.3	349.5	115.1	106.6	95.9	83.1	74.6	63.9	59.7	59.7
42.5°	1193.5	1161.5	266.4	108.7	100.2	87.4	70.3	57.5	46.9	44.8	44.8
45°	1457.8	1325.6	200.3	104.4	93.8	76.7	57.5	42.6	36.2	34.1	34.1
47.5°	1749.7	1515.3	159.8	98.0	87.4	68.2	44.8	34.1	27.7	27.7	27.7
50°	2071.5	1696.5	134.3	91.6	76.7	57.5	36.2	27.7	25.6	23.4	25.6
52.5°	2423.2	1839.2	117.2	83.1	66.1	46.9	29.8	25.6	21.3	21.3	21.3
55°	2738.6	1935.1	98.0	72.5	55.4	38.4	27.7	21.3	19.2	17.0	14.9
57.5°	3024.2	1986.3	78.9	61.8	42.6	32.0	23.4	17.0	14.9	10.7	10.7
60°	3171.3	1939.4	61.8	49.0	34.1	25.6	19.2	14.9	10.7	6.4	6.4
62.5°	3194.7	1817.9	49.0	38.4	29.8	21.3	14.9	10.7	6.4	4.3	4.3
65°	2990.1	1604.8	40.5	32.0	23.4	17.0	12.8	8.5	4.3	2.1	2.1
67°	2623.5	1381.0	36.2	27.7	21.3	14.9	10.7	6.4	4.3	2.1	0.0
67.5°	2551.1	1340.5	34.1	27.7	21.3	14.9	10.7	6.4	4.3	2.1	0.0
70°	1675.1	927.1	32.0	25.6	19.2	12.8	8.5	6.4	2.1	0.0	0.0
72.5°	914.3	466.7	29.8	23.4	17.0	12.8	8.5	4.3	2.1	0.0	0.0
75°	334.6	176.9	25.6	21.3	14.9	12.8	8.5	4.3	2.1	0.0	0.0
77.5°	113.0	61.8	23.4	21.3	17.0	12.8	8.5	4.3	2.1	0.0	0.0
80°	38.4	27.7	19.2	17.0	12.8	10.7	8.5	4.3	2.1	0.0	0.0
82.5°	14.9	8.5	6.4	6.4	6.4	8.5	8.5	6.4	2.1	0.0	0.0
85°	6.4	4.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0
87.5°	6.4	4.3	2.1	2.1	2.1	0.0	0.0	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)