

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: P573278

Luminaire Tested: **ARCH-S-PA2-50-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

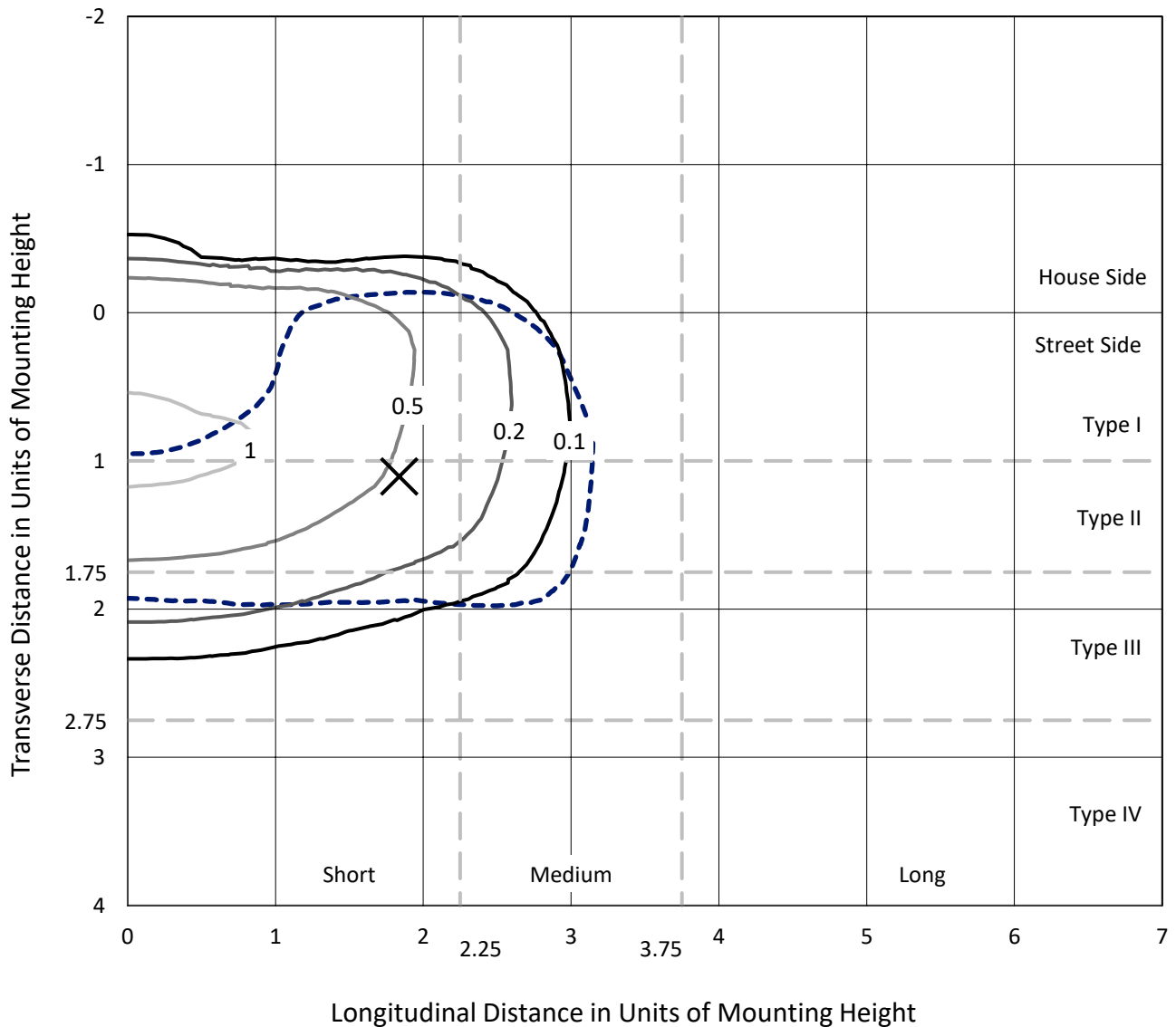
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

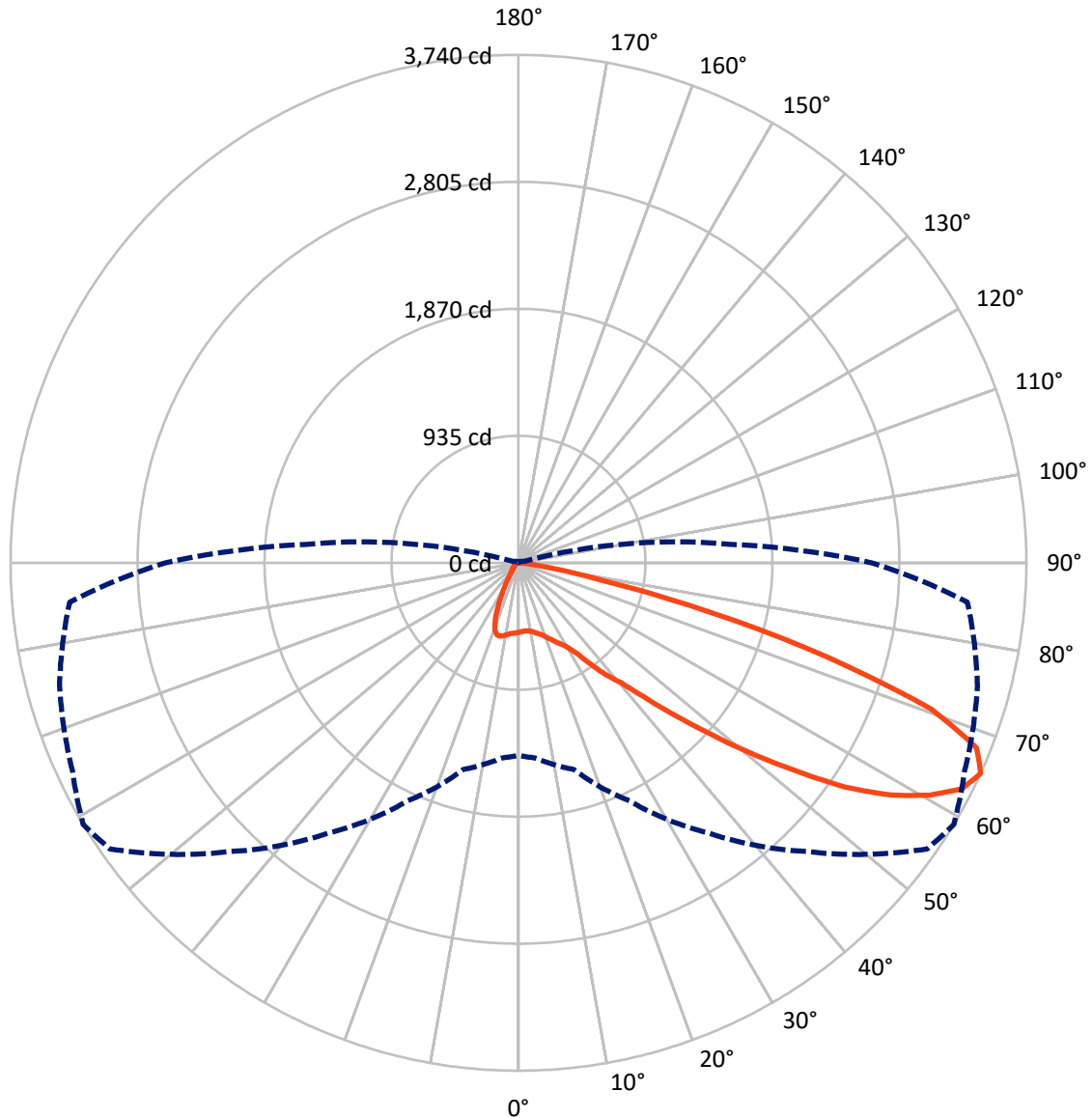
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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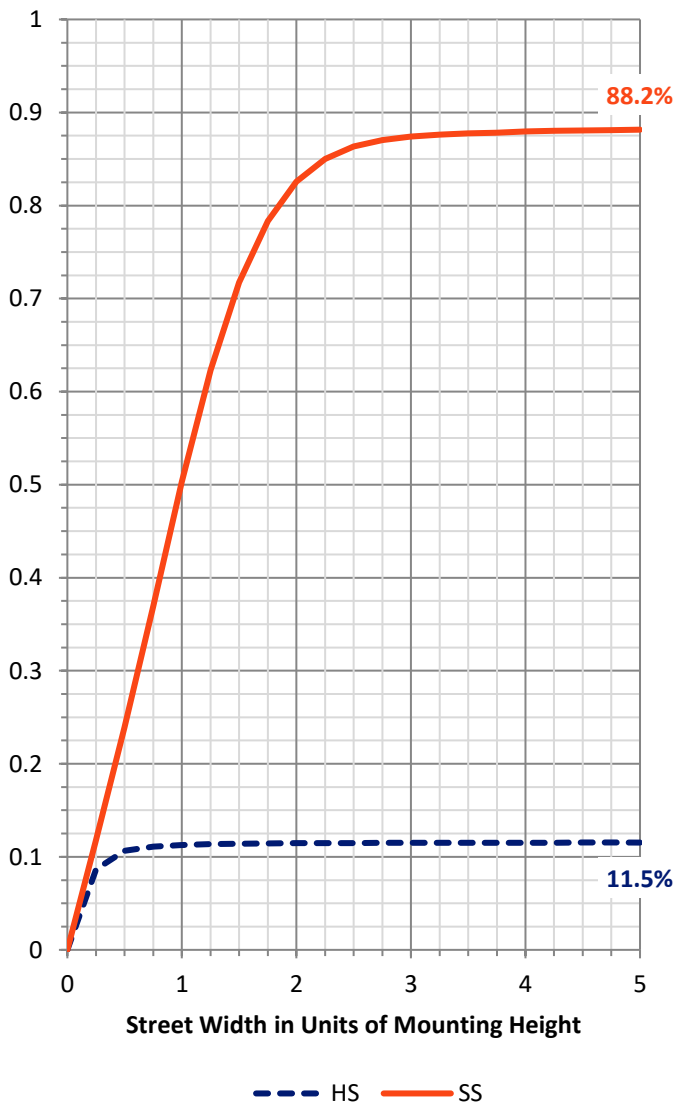
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.8	0.0	552.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4186.1	0.0	4186.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	4739.0	0.0	4739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.0
10°-20°	137.5	2.9
20°-30°	233.5	4.9
30°-40°	413.6	8.7
40°-50°	780.2	16.5
50°-60°	1320.1	27.9
60°-70°	1372.5	29.0
70°-80°	411.6	8.7
80°-90°	21.6	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°	4739.0	100.0
0°-180°	4739.0	100.0

Coefficient of Utilization



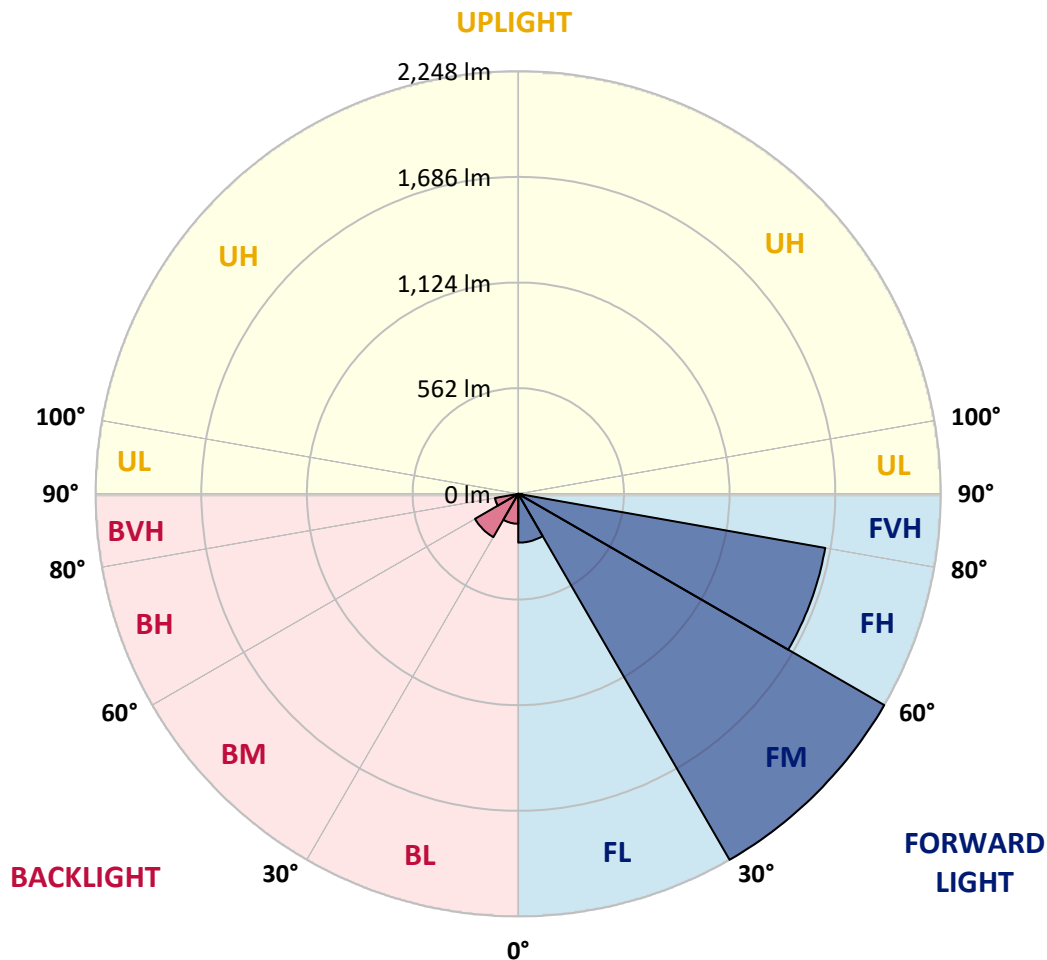
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.9	5.5			
FM	(30°-60°)	2248.2	47.4			
FH	(60°-80°)	1658.3	35.0			G1/1800
FVH	(80°-90°)	19.8	0.4			G1/100
BL	(0°-30°)	159.5	3.4	B1/500		
BM	(30°-60°)	265.8	5.6	B1/1000		
BH	(60°-80°)	125.8	2.7	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
2.5°	498.3	496.6	496.6	500.0	501.8	503.5	506.9	506.9	506.9	510.4	512.1
5°	474.2	474.2	475.9	479.3	486.2	491.4	501.8	503.5	505.2	513.8	517.3
7.5°	458.6	458.6	460.4	467.3	475.9	488.0	501.8	505.2	510.4	522.4	531.1
10°	456.9	455.2	458.6	465.5	475.9	491.4	506.9	512.1	522.4	538.0	550.0
12.5°	462.1	460.4	463.8	470.7	481.1	496.6	517.3	525.9	538.0	558.7	575.9
15°	465.5	463.8	467.3	475.9	488.0	506.9	531.1	541.4	556.9	586.2	603.5
17.5°	475.9	474.2	475.9	482.8	494.9	515.5	546.6	556.9	582.8	615.5	634.5
20°	522.4	520.7	510.4	506.9	508.6	527.6	567.3	584.5	615.5	656.9	670.7
22.5°	619.0	612.1	593.1	562.1	541.4	548.3	593.1	612.1	653.5	700.0	710.4
25°	748.3	743.1	715.6	662.1	603.5	586.2	622.4	648.3	698.3	750.0	746.6
27.5°	894.9	884.5	858.7	784.5	705.2	648.3	658.7	681.1	736.2	791.4	774.2
30°	1022.5	1019.0	989.7	927.6	834.5	750.0	713.8	725.9	775.9	834.5	813.8
32.5°	1139.7	1129.4	1105.2	1046.6	960.4	874.2	801.8	801.8	843.1	912.1	881.1
35°	1269.0	1262.1	1232.8	1174.2	1091.4	989.7	924.2	917.3	951.8	1029.4	962.1
37.5°	1401.8	1384.6	1370.8	1310.4	1227.7	1139.7	1060.4	1044.9	1062.1	1119.0	1036.3
40°	1567.3	1567.3	1536.3	1481.1	1403.5	1310.4	1200.1	1160.4	1155.2	1229.4	1165.6
42.5°	1760.4	1755.3	1729.4	1677.7	1603.5	1517.3	1377.7	1341.5	1338.0	1427.7	1351.8
45°	1982.9	1979.4	1948.4	1905.3	1853.5	1758.7	1620.8	1584.6	1563.9	1667.3	1577.7
47.5°	2186.3	2174.3	2163.9	2169.1	2139.8	2032.9	1903.5	1860.4	1858.7	1939.8	1824.2
50°	2326.0	2319.1	2355.3	2389.8	2445.0	2377.7	2224.3	2186.3	2157.0	2263.9	2081.1
52.5°	2417.4	2413.9	2486.3	2584.6	2698.4	2693.2	2557.0	2534.6	2510.5	2539.8	2310.5
55°	2453.6	2453.6	2539.8	2720.8	2920.8	3007.1	2943.3	2912.2	2827.7	2767.4	2562.2
57.5°	2410.5	2405.3	2517.4	2753.6	3058.8	3236.4	3264.0	3227.8	3095.0	3027.7	2841.5
60°	2227.7	2231.2	2363.9	2662.2	3048.4	3329.5	3507.1	3474.3	3341.6	3241.6	3076.0
62.5°	1886.3	1915.6	2055.3	2379.4	2827.7	3255.3	3646.7	3664.0	3520.9	3396.7	3284.7
65°	1417.3	1443.2	1575.9	1934.6	2426.0	3007.1	3672.6	3739.9	3624.3	3498.5	3317.4
67.5°	862.1	870.7	1032.8	1303.5	1786.3	2505.3	3491.6	3638.1	3555.4	3348.5	2993.3
70°	401.7	424.2	503.5	712.1	1131.1	1844.9	3017.4	3224.3	3131.2	2874.3	2276.0
72.5°	156.9	163.8	213.8	329.3	600.0	1160.4	2251.8	2389.8	2326.0	2041.5	1357.0
75°	77.6	82.8	103.5	156.9	274.2	479.3	1375.9	1465.6	1360.4	1025.9	574.2
77.5°	56.9	56.9	69.0	96.6	150.0	177.6	579.3	650.0	613.8	396.6	156.9
80°	37.9	41.4	48.3	65.5	94.8	86.2	219.0	260.4	217.3	122.4	55.2
82.5°	22.4	24.1	36.2	46.6	63.8	50.0	74.1	82.8	89.7	60.3	25.9
85°	12.1	12.1	24.1	34.5	34.5	22.4	25.9	29.3	34.5	36.2	13.8
87.5°	3.4	3.4	15.5	20.7	13.8	12.1	13.8	13.8	15.5	19.0	6.9
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°	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
2.5°	513.8	513.8	515.5	515.5	517.3	517.3	517.3	517.3	519.0	520.7	520.7
5°	519.0	520.7	520.7	520.7	520.7	517.3	515.5	513.8	513.8	515.5	515.5
7.5°	532.8	534.5	532.8	529.3	524.2	517.3	510.4	510.4	508.6	510.4	508.6
10°	553.5	553.5	551.8	543.1	534.5	520.7	506.9	496.6	489.7	488.0	484.5
12.5°	579.3	579.3	574.2	558.7	543.1	517.3	481.1	446.6	419.0	406.9	403.5
15°	605.2	605.2	598.3	575.9	544.9	482.8	406.9	334.5	293.1	275.9	265.5
17.5°	636.2	632.8	620.7	589.7	525.9	413.8	291.4	217.3	184.5	169.0	169.0
20°	669.0	665.6	643.1	591.4	477.6	296.6	189.7	150.0	141.4	137.9	137.9
22.5°	705.2	696.6	662.1	577.6	375.9	201.7	143.1	132.8	129.3	127.6	127.6
25°	734.5	720.7	675.9	539.7	269.0	141.4	125.9	122.4	115.5	113.8	110.4
27.5°	756.9	736.2	681.1	458.6	177.6	117.2	112.1	105.2	98.3	91.4	91.4
30°	786.2	760.4	684.5	356.9	120.7	101.7	96.6	87.9	79.3	72.4	72.4
32.5°	844.9	806.9	686.2	250.0	100.0	89.7	79.3	69.0	60.3	56.9	55.2
35°	908.7	856.9	667.3	162.1	87.9	75.9	63.8	55.2	46.6	44.8	44.8
37.5°	979.4	931.1	625.9	110.4	77.6	63.8	51.7	43.1	37.9	36.2	36.2
40°	1098.3	1041.4	556.9	87.9	67.2	53.5	43.1	36.2	32.8	31.0	31.0
42.5°	1269.0	1170.8	470.7	75.9	58.6	44.8	34.5	29.3	27.6	25.9	25.9
45°	1465.6	1315.6	370.7	69.0	51.7	37.9	29.3	25.9	24.1	22.4	22.4
47.5°	1691.5	1465.6	293.1	60.3	44.8	32.8	25.9	22.4	20.7	19.0	19.0
50°	1905.3	1582.8	220.7	53.5	39.7	27.6	22.4	20.7	19.0	17.2	17.2
52.5°	2081.1	1662.2	167.3	46.6	34.5	24.1	20.7	19.0	15.5	15.5	15.5
55°	2293.2	1724.2	127.6	41.4	31.0	22.4	19.0	15.5	13.8	12.1	12.1
57.5°	2477.7	1746.6	93.1	36.2	27.6	20.7	17.2	13.8	10.3	8.6	8.6
60°	2601.9	1727.7	67.2	31.0	24.1	17.2	13.8	10.3	6.9	5.2	5.2
62.5°	2689.8	1686.3	51.7	27.6	20.7	15.5	12.1	8.6	5.2	3.4	3.4
65°	2601.9	1558.7	41.4	24.1	17.2	13.8	8.6	6.9	3.4	1.7	1.7
67.5°	2250.1	1307.0	32.8	20.7	15.5	12.1	8.6	5.2	1.7	0.0	0.0
70°	1617.3	932.8	27.6	19.0	13.8	10.3	6.9	3.4	1.7	0.0	0.0
72.5°	901.8	481.1	25.9	17.2	13.8	10.3	6.9	3.4	1.7	0.0	0.0
75°	365.5	165.5	24.1	17.2	13.8	8.6	6.9	3.4	1.7	0.0	0.0
77.5°	106.9	56.9	20.7	15.5	13.8	10.3	6.9	3.4	1.7	0.0	0.0
80°	37.9	25.9	15.5	13.8	10.3	8.6	6.9	5.2	1.7	0.0	0.0
82.5°	17.2	10.3	6.9	5.2	5.2	5.2	5.2	3.4	1.7	0.0	0.0
85°	6.9	5.2	3.4	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
87.5°	5.2	3.4	1.7	1.7	1.7	1.7	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)