

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: P573215

Luminaire Tested: **ARCH-S-PA2-50-727-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573215
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-PA2-50-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 4988 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

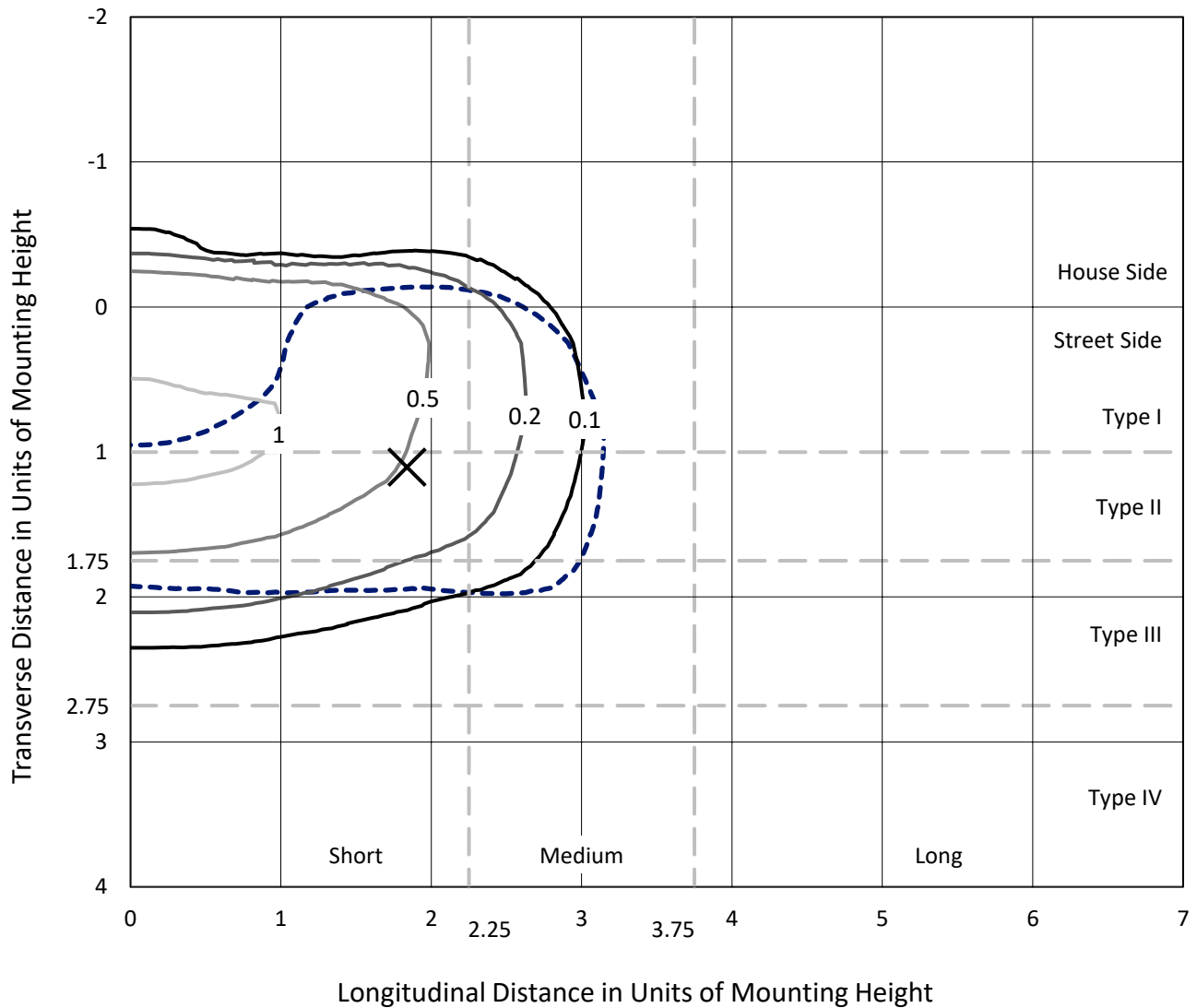
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

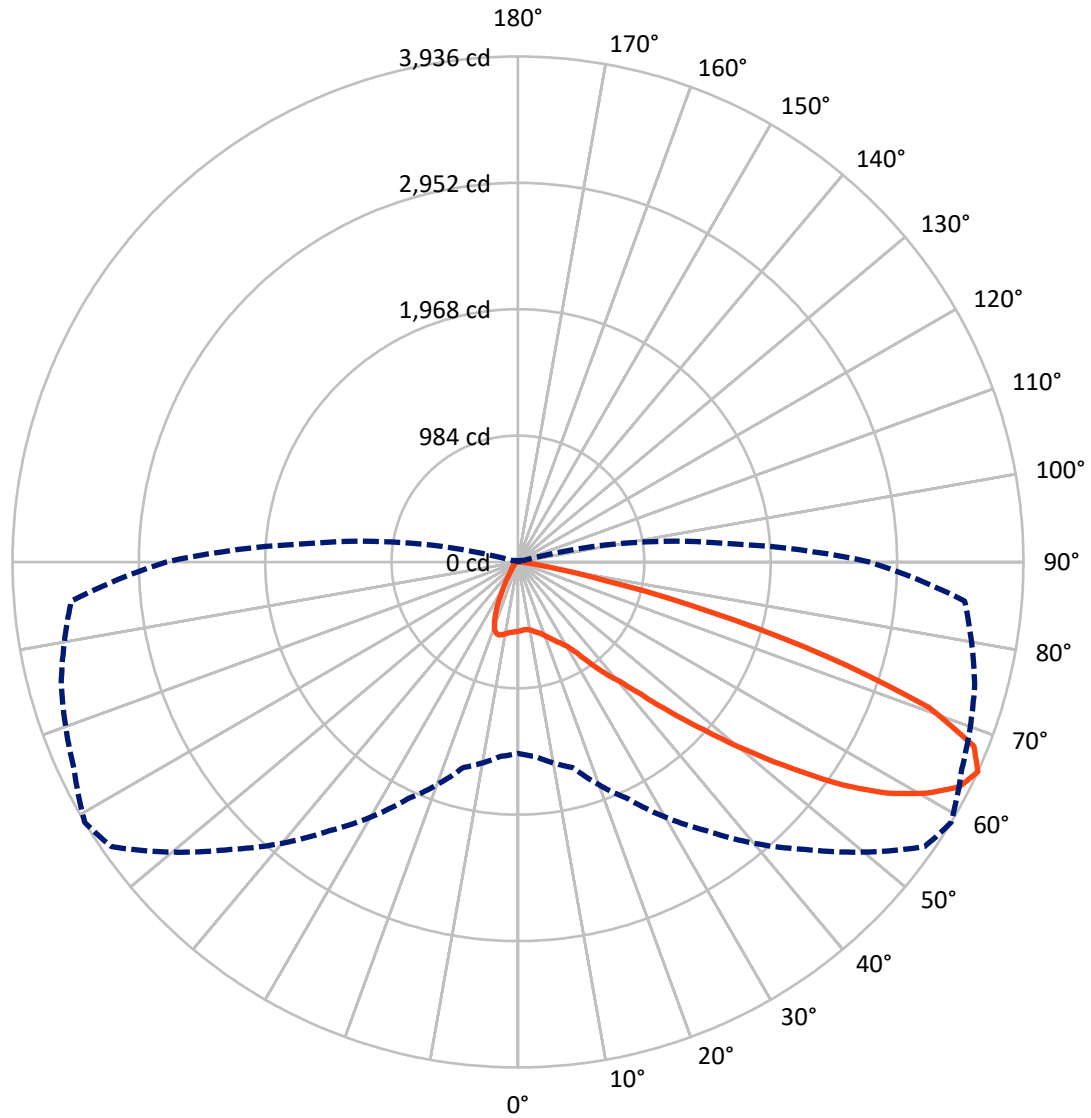
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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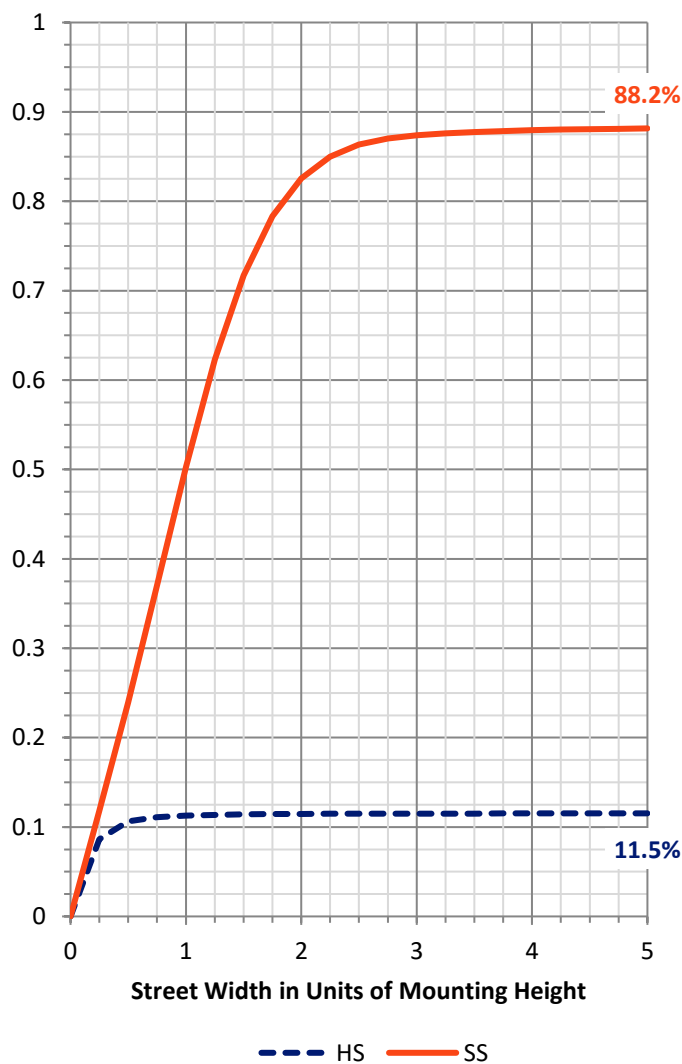
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.9	0.0	581.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4406.1	0.0	4406.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	4988.0	0.0	4988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.0
10°-20°	144.7	2.9
20°-30°	245.8	4.9
30°-40°	435.3	8.7
40°-50°	821.2	16.5
50°-60°	1389.5	27.9
60°-70°	1444.6	29.0
70°-80°	433.2	8.7
80°-90°	22.7	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°	4988.0	100.0
0°-180°	4988.0	100.0

Coefficient of Utilization



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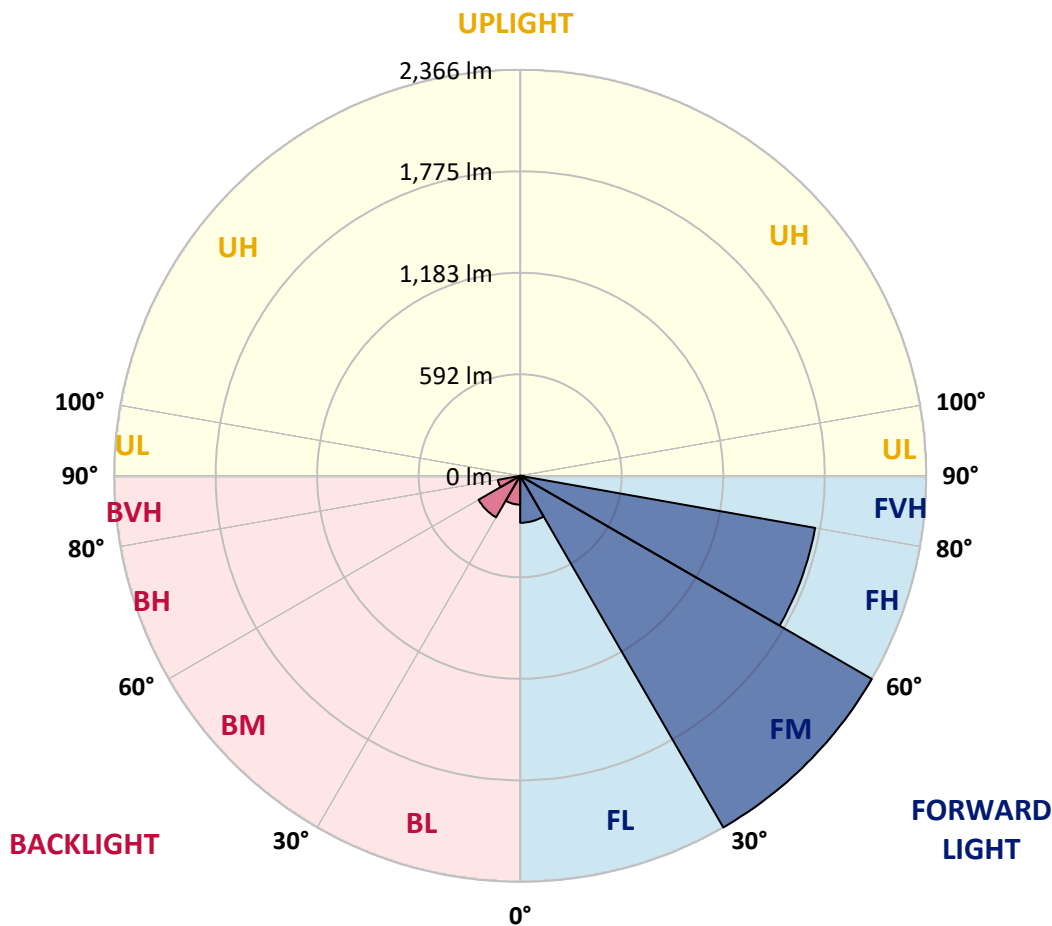
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.5	5.5			
FM (30°-60°)	2366.3	47.4			
FH (60°-80°)	1745.4	35.0			G1/1800
FVH (80°-90°)	20.8	0.4			G1/100
BL (0°-30°)	167.9	3.4	B1/500		
BM (30°-60°)	279.7	5.6	B1/1000		
BH (60°-80°)	132.4	2.7	B1/500		G1/500
BVH (80°-90°)	1.9	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°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	524.5	522.7	522.7	526.3	528.1	529.9	533.6	533.6	533.6	537.2	539.0
5°	499.1	499.1	500.9	504.5	511.8	517.2	528.1	529.9	531.7	540.8	544.4
7.5°	482.7	482.7	484.6	491.8	500.9	513.6	528.1	531.7	537.2	549.9	559.0
10°	480.9	479.1	482.7	490.0	500.9	517.2	533.6	539.0	549.9	566.2	578.9
12.5°	486.4	484.6	488.2	495.4	506.3	522.7	544.4	553.5	566.2	588.0	606.2
15°	490.0	488.2	491.8	500.9	513.6	533.6	559.0	569.9	586.2	617.0	635.2
17.5°	500.9	499.1	500.9	508.2	520.9	542.6	575.3	586.2	613.4	647.9	667.9
20°	549.9	548.1	537.2	533.6	535.4	555.3	597.1	615.2	647.9	691.4	706.0
22.5°	651.5	644.3	624.3	591.6	569.9	577.1	624.3	644.3	687.8	736.8	747.7
25°	787.6	782.2	753.2	696.9	635.2	617.0	655.2	682.4	735.0	789.4	785.8
27.5°	941.9	931.0	903.8	825.7	742.3	682.4	693.3	716.9	774.9	833.0	814.9
30°	1076.2	1072.6	1041.7	976.4	878.4	789.4	751.3	764.0	816.7	878.4	856.6
32.5°	1199.6	1188.7	1163.3	1101.6	1010.9	920.1	843.9	843.9	887.4	960.0	927.4
35°	1335.7	1328.5	1297.6	1235.9	1148.8	1041.7	972.7	965.5	1001.8	1083.5	1012.7
37.5°	1475.5	1457.3	1442.8	1379.3	1292.2	1199.6	1116.1	1099.8	1117.9	1177.8	1090.7
40°	1649.7	1649.7	1617.0	1558.9	1477.3	1379.3	1263.1	1221.4	1215.9	1294.0	1226.8
42.5°	1852.9	1847.5	1820.3	1765.8	1687.8	1597.0	1450.0	1411.9	1408.3	1502.7	1422.8
45°	2087.0	2083.4	2050.8	2005.4	1950.9	1851.1	1705.9	1667.8	1646.0	1754.9	1660.6
47.5°	2301.2	2288.5	2277.6	2283.0	2252.2	2139.7	2003.6	1958.2	1956.4	2041.7	1920.1
50°	2448.2	2440.9	2479.1	2515.3	2573.4	2502.6	2341.1	2301.2	2270.3	2382.9	2190.5
52.5°	2544.4	2540.8	2617.0	2720.4	2840.2	2834.8	2691.4	2667.8	2642.4	2673.2	2431.9
55°	2582.5	2582.5	2673.2	2863.8	3074.3	3165.1	3097.9	3065.2	2976.3	2912.8	2696.8
57.5°	2537.1	2531.7	2649.6	2898.3	3219.5	3406.4	3435.5	3397.4	3257.6	3186.8	2990.8
60°	2344.8	2348.4	2488.1	2802.1	3208.6	3504.4	3691.4	3656.9	3517.1	3411.9	3237.6
62.5°	1985.4	2016.3	2163.3	2504.5	2976.3	3426.4	3838.4	3856.5	3705.9	3575.2	3457.2
65°	1491.8	1519.0	1658.7	2036.2	2553.5	3165.1	3865.6	3936.4	3814.8	3682.3	3491.7
67.5°	907.4	916.5	1087.1	1372.0	1880.2	2636.9	3675.0	3829.3	3742.2	3524.4	3150.5
70°	422.9	446.4	529.9	749.5	1190.5	1941.9	3175.9	3393.7	3295.7	3025.3	2395.6
72.5°	165.1	172.4	225.0	346.6	631.6	1221.4	2370.2	2515.3	2448.2	2148.8	1428.3
75°	81.7	87.1	108.9	165.1	288.6	504.5	1448.2	1542.6	1431.9	1079.8	604.3
77.5°	59.9	59.9	72.6	101.6	157.9	186.9	609.8	684.2	646.1	417.4	165.1
80°	39.9	43.6	50.8	69.0	99.8	90.7	230.5	274.0	228.7	128.9	58.1
82.5°	23.6	25.4	38.1	49.0	67.1	52.6	78.0	87.1	94.4	63.5	27.2
85°	12.7	12.7	25.4	36.3	36.3	23.6	27.2	30.9	36.3	38.1	14.5
87.5°	3.6	3.6	16.3	21.8	14.5	12.7	14.5	14.5	16.3	20.0	7.3
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°	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0	539.0
2.5°	540.8	540.8	542.6	542.6	544.4	544.4	544.4	544.4	546.3	548.1	548.1
5°	546.3	548.1	548.1	548.1	548.1	544.4	542.6	540.8	540.8	542.6	542.6
7.5°	560.8	562.6	560.8	557.2	551.7	544.4	537.2	537.2	535.4	537.2	535.4
10°	582.6	582.6	580.7	571.7	562.6	548.1	533.6	522.7	515.4	513.6	510.0
12.5°	609.8	609.8	604.3	588.0	571.7	544.4	506.3	470.0	441.0	428.3	424.7
15°	637.0	637.0	629.7	606.2	573.5	508.2	428.3	352.1	308.5	290.4	279.5
17.5°	669.7	666.0	653.3	620.7	553.5	435.6	306.7	228.7	194.2	177.9	177.9
20°	704.2	700.5	676.9	622.5	502.7	312.1	199.6	157.9	148.8	145.2	145.2
22.5°	742.3	733.2	696.9	608.0	395.6	212.3	150.6	139.7	136.1	134.3	134.3
25°	773.1	758.6	711.4	568.0	283.1	148.8	132.5	128.9	121.6	119.8	116.1
27.5°	796.7	774.9	716.9	482.7	186.9	123.4	118.0	110.7	103.4	96.2	96.2
30°	827.6	800.3	720.5	375.7	127.0	107.1	101.6	92.6	83.5	76.2	76.2
32.5°	889.3	849.3	722.3	263.1	105.3	94.4	83.5	72.6	63.5	59.9	58.1
35°	956.4	902.0	702.3	170.6	92.6	79.9	67.1	58.1	49.0	47.2	47.2
37.5°	1030.8	980.0	658.8	116.1	81.7	67.1	54.4	45.4	39.9	38.1	38.1
40°	1156.0	1096.2	586.2	92.6	70.8	56.3	45.4	38.1	34.5	32.7	32.7
42.5°	1335.7	1232.3	495.4	79.9	61.7	47.2	36.3	30.9	29.0	27.2	27.2
45°	1542.6	1384.7	390.2	72.6	54.4	39.9	30.9	27.2	25.4	23.6	23.6
47.5°	1780.3	1542.6	308.5	63.5	47.2	34.5	27.2	23.6	21.8	20.0	20.0
50°	2005.4	1666.0	232.3	56.3	41.7	29.0	23.6	21.8	20.0	18.1	18.1
52.5°	2190.5	1749.5	176.0	49.0	36.3	25.4	21.8	20.0	16.3	16.3	16.3
55°	2413.7	1814.8	134.3	43.6	32.7	23.6	20.0	16.3	14.5	12.7	12.7
57.5°	2607.9	1838.4	98.0	38.1	29.0	21.8	18.1	14.5	10.9	9.1	9.1
60°	2738.6	1818.5	70.8	32.7	25.4	18.1	14.5	10.9	7.3	5.4	5.4
62.5°	2831.1	1774.9	54.4	29.0	21.8	16.3	12.7	9.1	5.4	3.6	3.6
65°	2738.6	1640.6	43.6	25.4	18.1	14.5	9.1	7.3	3.6	1.8	1.8
67.5°	2368.3	1375.6	34.5	21.8	16.3	12.7	9.1	5.4	1.8	0.0	0.0
70°	1702.3	981.8	29.0	20.0	14.5	10.9	7.3	3.6	1.8	0.0	0.0
72.5°	949.2	506.3	27.2	18.1	14.5	10.9	7.3	3.6	1.8	0.0	0.0
75°	384.7	174.2	25.4	18.1	14.5	9.1	7.3	3.6	1.8	0.0	0.0
77.5°	112.5	59.9	21.8	16.3	14.5	10.9	7.3	3.6	1.8	0.0	0.0
80°	39.9	27.2	16.3	14.5	10.9	9.1	7.3	5.4	1.8	0.0	0.0
82.5°	18.1	10.9	7.3	5.4	5.4	5.4	5.4	3.6	1.8	0.0	0.0
85°	7.3	5.4	3.6	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
87.5°	5.4	3.6	1.8	1.8	1.8	1.8	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)