

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: P573375

Luminaire Tested: **ARCH-S-PA2-70-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

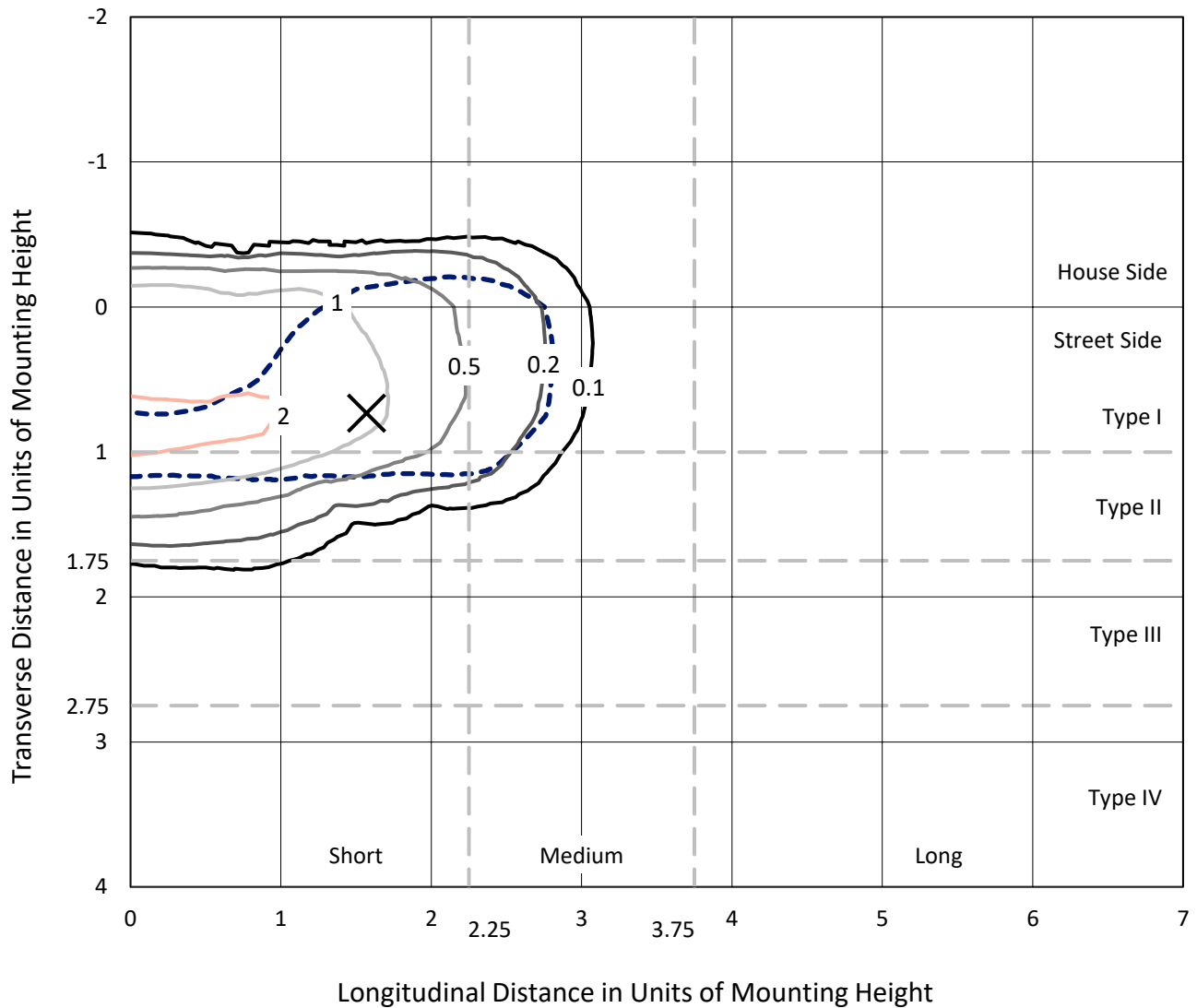
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

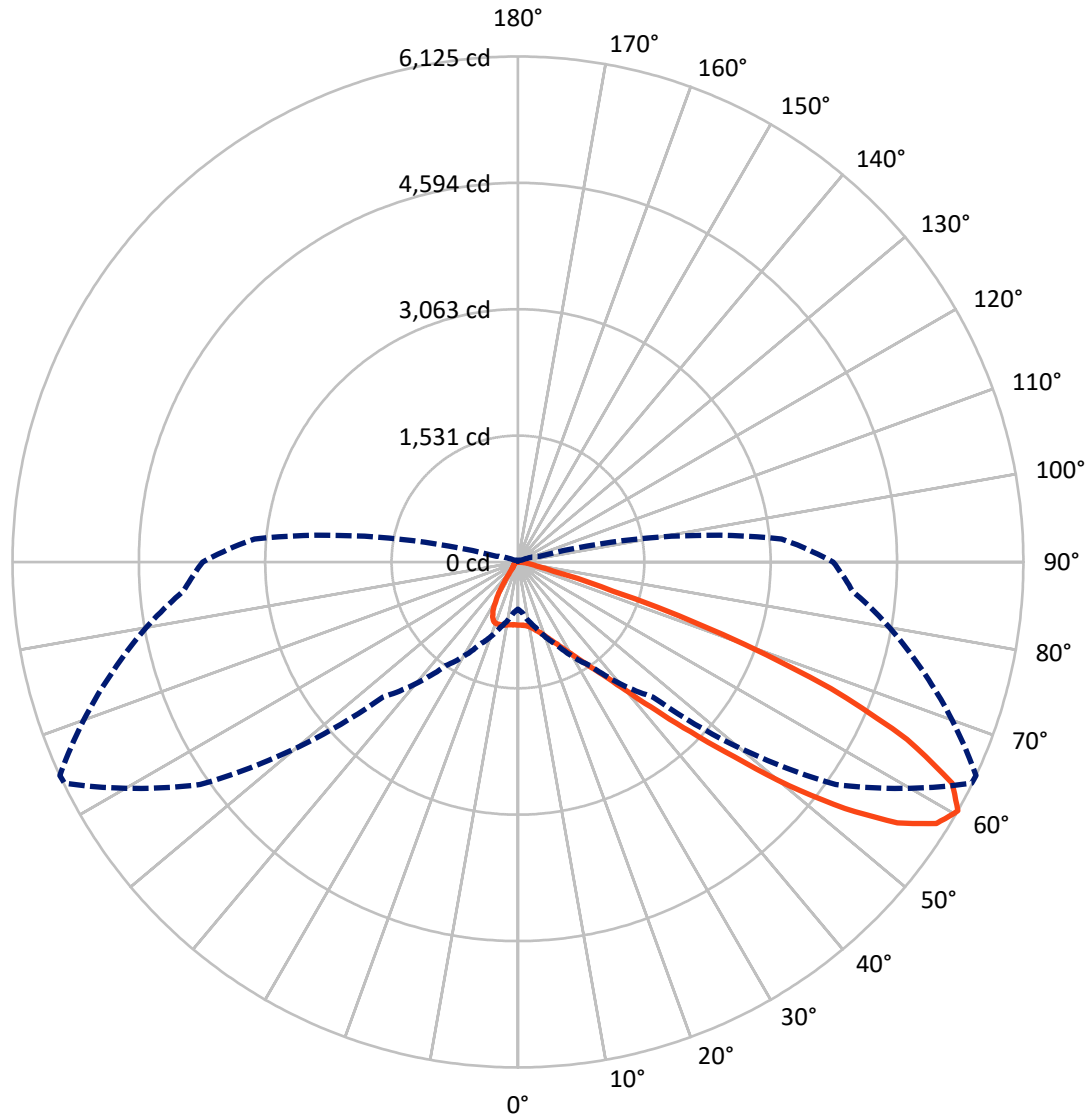
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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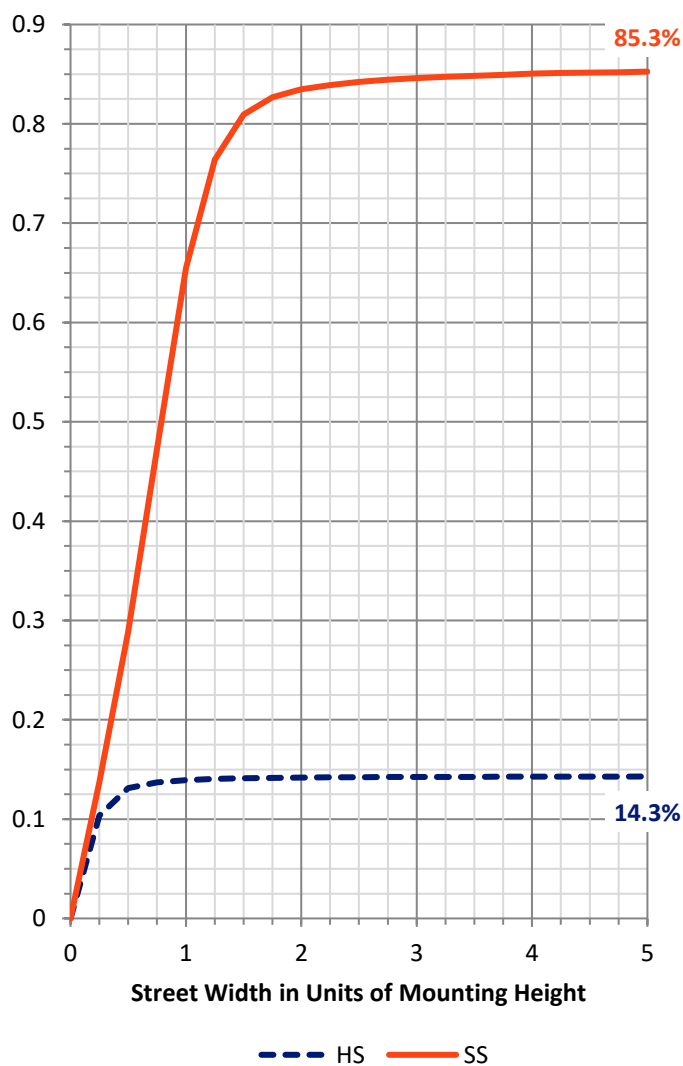
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.5	0.0	890.5
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5260.5	0.0	5260.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	6151.0	0.0	6151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.2
10°-20°	205.5	3.3
20°-30°	349.0	5.7
30°-40°	720.2	11.7
40°-50°	1448.3	23.5
50°-60°	1772.3	28.8
60°-70°	1253.8	20.4
70°-80°	302.1	4.9
80°-90°	27.3	0.4
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°	6151.0	100.0
0°-180°	6151.0	100.0

Coefficient of Utilization

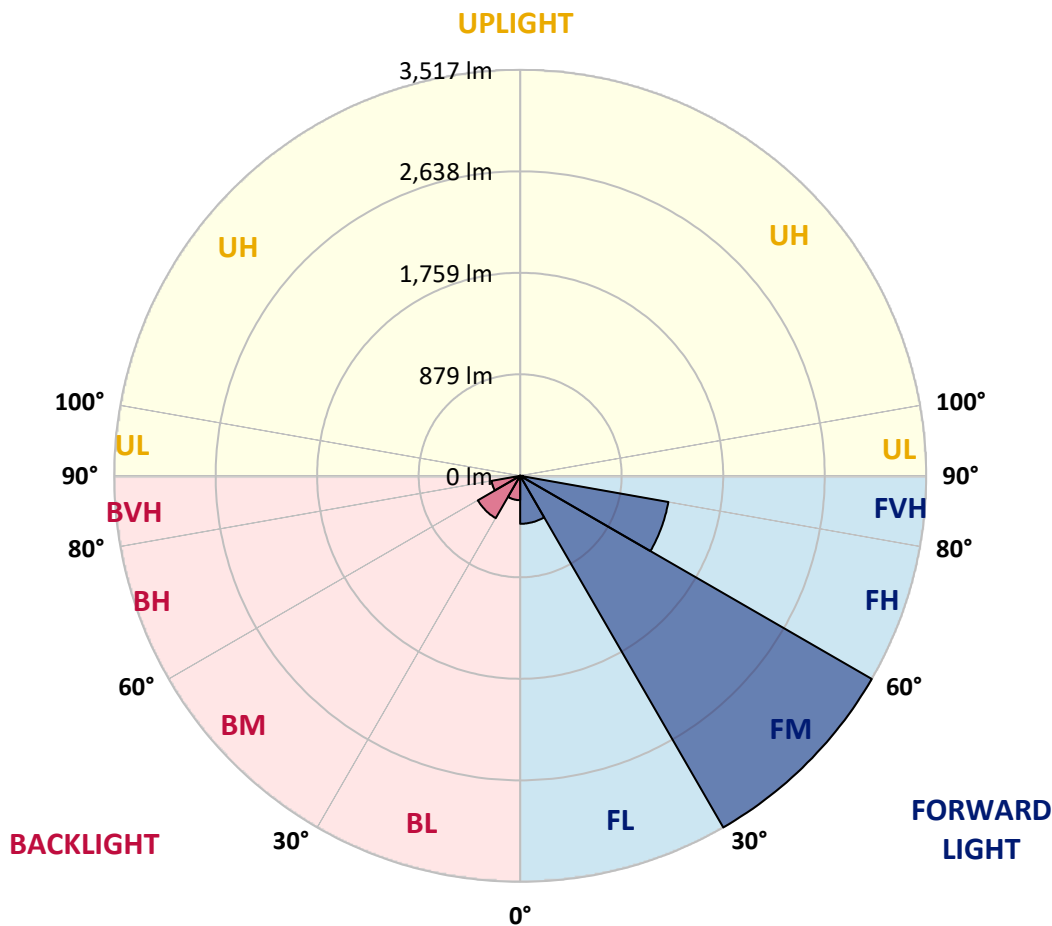


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.8	6.8			
FM (30°-60°)	3517.4	57.2			
FH (60°-80°)	1303.6	21.2			G1/1800
FVH (80°-90°)	23.7	0.4			G1/100
BL (0°-30°)	211.1	3.4	B1/500		
BM (30°-60°)	423.4	6.9	B1/1000		
BH (60°-80°)	252.4	4.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3
2.5°	768.7	766.3	766.3	766.3	768.7	768.7	771.1	766.3	766.3	766.3	766.3
5°	763.8	761.4	761.4	763.8	766.3	766.3	771.1	771.1	771.1	773.5	773.5
7.5°	773.5	768.7	768.7	771.1	773.5	773.5	778.4	780.8	780.8	785.7	788.1
10°	785.7	783.2	783.2	788.1	792.9	792.9	800.2	800.2	800.2	805.1	807.5
12.5°	802.6	800.2	800.2	807.5	814.8	819.6	824.5	826.9	829.3	829.3	829.3
15°	826.9	824.5	824.5	831.7	841.4	853.6	860.8	860.8	865.7	863.3	853.6
17.5°	860.8	858.4	860.8	865.7	877.8	889.9	904.5	906.9	904.5	899.6	885.1
20°	916.6	909.3	914.2	926.3	926.3	933.6	953.0	960.3	962.7	948.1	921.5
22.5°	974.8	974.8	979.7	994.2	984.5	994.2	1011.2	1023.3	1028.1	1016.0	972.4
25°	1083.9	1088.8	1081.5	1076.6	1052.4	1057.2	1079.1	1103.3	1103.3	1093.6	1030.6
27.5°	1324.0	1319.1	1268.2	1197.9	1134.8	1139.7	1161.5	1193.0	1195.5	1173.6	1088.8
30°	1668.3	1673.2	1573.7	1413.7	1275.5	1239.1	1263.4	1299.7	1304.6	1268.2	1163.9
32.5°	2206.6	2165.4	1981.1	1767.7	1508.3	1377.3	1387.0	1425.8	1440.4	1408.9	1282.8
35°	2902.6	2805.6	2529.1	2264.8	1889.0	1624.7	1549.5	1590.7	1598.0	1581.0	1430.7
37.5°	3317.2	3239.6	3060.2	2820.1	2378.8	1954.5	1762.9	1804.1	1796.8	1762.9	1578.6
40°	3574.3	3530.6	3433.6	3322.1	3040.8	2473.4	2114.5	2080.5	2083.0	2034.5	1818.7
42.5°	3719.8	3681.0	3644.6	3673.7	3591.2	3414.2	2623.7	2468.5	2454.0	2361.8	2097.5
45°	3727.0	3668.8	3712.5	3882.2	4013.2	4248.4	3288.1	2929.3	2936.5	2783.8	2444.3
47.5°	3448.2	3402.1	3528.2	3860.4	4294.5	4794.0	4061.7	3559.7	3525.8	3225.1	2795.9
50°	2897.7	2895.3	3062.6	3533.0	4294.5	5075.3	4891.0	4299.3	4262.9	3685.8	3116.0
52.5°	2293.9	2340.0	2454.0	2900.2	3899.2	5048.6	5502.0	5063.1	4961.3	4095.6	3382.7
55°	1784.7	1767.7	1906.0	2213.9	3091.7	4587.9	5700.9	5664.5	5579.6	4459.3	3617.9
57.5°	1096.0	1159.1	1345.8	1619.8	2250.3	3608.2	5414.7	6030.7	5979.7	4798.8	3862.8
60°	569.8	618.3	819.6	1105.7	1537.4	2313.3	4699.4	6115.5	6125.2	5072.8	4071.4
62.5°	358.9	356.5	448.6	776.0	989.3	1299.7	3649.4	5814.9	5907.0	5283.8	4270.2
65°	269.2	271.6	308.0	514.1	671.7	679.0	2165.4	5029.2	5182.0	5339.6	4338.1
67.5°	249.8	252.2	269.2	337.1	504.4	453.5	953.0	3877.4	4090.8	4825.5	4076.2
70°	223.1	225.5	252.2	278.9	380.7	332.2	429.2	2335.2	2631.0	3501.5	3261.5
72.5°	174.6	179.4	211.0	264.3	283.7	252.2	298.3	1033.0	1205.2	1925.4	1867.2
75°	128.5	130.9	160.0	203.7	249.8	179.4	230.4	409.8	448.6	722.6	615.9
77.5°	89.7	89.7	111.5	152.8	208.5	126.1	164.9	220.7	225.5	269.2	177.0
80°	55.8	58.2	70.3	104.3	128.5	121.2	101.8	147.9	147.9	140.6	72.7
82.5°	31.5	33.9	48.5	70.3	87.3	82.4	65.5	84.9	87.3	89.7	41.2
85°	14.5	17.0	29.1	43.6	50.9	38.8	38.8	43.6	43.6	58.2	24.2
87.5°	2.4	2.4	14.5	19.4	17.0	19.4	19.4	24.2	24.2	29.1	12.1
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°	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3	766.3
2.5°	763.8	763.8	763.8	761.4	761.4	759.0	754.1	754.1	754.1	754.1	756.6
5°	773.5	771.1	768.7	761.4	756.6	746.9	737.2	734.7	727.5	727.5	729.9
7.5°	785.7	785.7	778.4	766.3	754.1	737.2	720.2	708.1	695.9	693.5	691.1
10°	807.5	802.6	795.4	773.5	754.1	727.5	700.8	669.3	645.0	632.9	628.0
12.5°	824.5	822.0	807.5	783.2	751.7	710.5	649.9	577.1	518.9	487.4	487.4
15°	848.7	843.9	822.0	788.1	744.4	647.4	523.8	412.2	349.2	315.2	310.4
17.5°	873.0	863.3	836.6	790.5	712.9	533.5	366.2	264.3	220.7	203.7	198.8
20°	902.1	885.1	846.3	792.9	635.3	388.0	237.6	177.0	160.0	152.8	155.2
22.5°	940.9	911.8	856.0	778.4	518.9	252.2	167.3	143.1	133.4	126.1	126.1
25°	989.3	948.1	873.0	737.2	375.9	169.7	133.4	118.8	109.1	104.3	101.8
27.5°	1033.0	982.1	889.9	664.4	240.1	133.4	111.5	99.4	89.7	87.3	84.9
30°	1091.2	1020.9	906.9	548.0	157.6	109.1	94.6	82.4	75.2	72.7	72.7
32.5°	1190.6	1096.0	938.4	417.1	118.8	94.6	80.0	70.3	65.5	63.0	63.0
35°	1307.0	1188.2	965.1	291.0	101.8	80.0	67.9	60.6	58.2	55.8	55.8
37.5°	1428.3	1297.3	970.0	184.3	89.7	70.3	60.6	55.8	50.9	50.9	50.9
40°	1646.5	1488.9	948.1	123.7	77.6	63.0	53.3	50.9	46.1	46.1	46.1
42.5°	1901.1	1721.7	892.4	99.4	70.3	55.8	50.9	46.1	41.2	41.2	38.8
45°	2230.9	1986.0	797.8	87.3	63.0	50.9	46.1	41.2	38.8	36.4	36.4
47.5°	2541.3	2286.7	708.1	77.6	58.2	48.5	41.2	36.4	33.9	33.9	33.9
50°	2837.1	2517.0	603.8	72.7	53.3	46.1	38.8	33.9	31.5	29.1	29.1
52.5°	3050.5	2698.9	506.8	65.5	48.5	41.2	36.4	31.5	26.7	24.2	24.2
55°	3288.1	2883.2	419.5	58.2	46.1	38.8	31.5	26.7	21.8	19.4	19.4
57.5°	3554.9	3062.6	339.5	53.3	43.6	33.9	26.7	21.8	17.0	14.5	14.5
60°	3819.2	3205.7	271.6	48.5	38.8	31.5	24.2	17.0	12.1	9.7	9.7
62.5°	4083.5	3302.7	208.5	43.6	36.4	26.7	19.4	12.1	7.3	4.8	4.8
65°	4192.6	3276.0	155.2	38.8	31.5	21.8	17.0	12.1	7.3	4.8	4.8
67.5°	3889.5	2946.2	109.1	38.8	29.1	21.8	14.5	9.7	4.8	2.4	2.4
70°	3035.9	2274.5	80.0	38.8	29.1	21.8	14.5	9.7	4.8	2.4	2.4
72.5°	1721.7	1265.8	60.6	33.9	26.7	19.4	14.5	9.7	4.8	2.4	2.4
75°	613.5	407.4	46.1	31.5	24.2	17.0	14.5	9.7	4.8	2.4	2.4
77.5°	147.9	104.3	36.4	26.7	21.8	17.0	12.1	9.7	7.3	2.4	2.4
80°	60.6	43.6	29.1	21.8	17.0	14.5	12.1	9.7	4.8	2.4	2.4
82.5°	26.7	21.8	12.1	12.1	9.7	9.7	9.7	9.7	4.8	2.4	2.4
85°	12.1	9.7	4.8	4.8	2.4	2.4	2.4	4.8	4.8	2.4	2.4
87.5°	7.3	4.8	4.8	4.8	2.4	2.4	2.4	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)