

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: P573298

Luminaire Tested: **ARCH-S-PA2-60-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573298
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-PA2-60-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 625mA 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: 5800 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

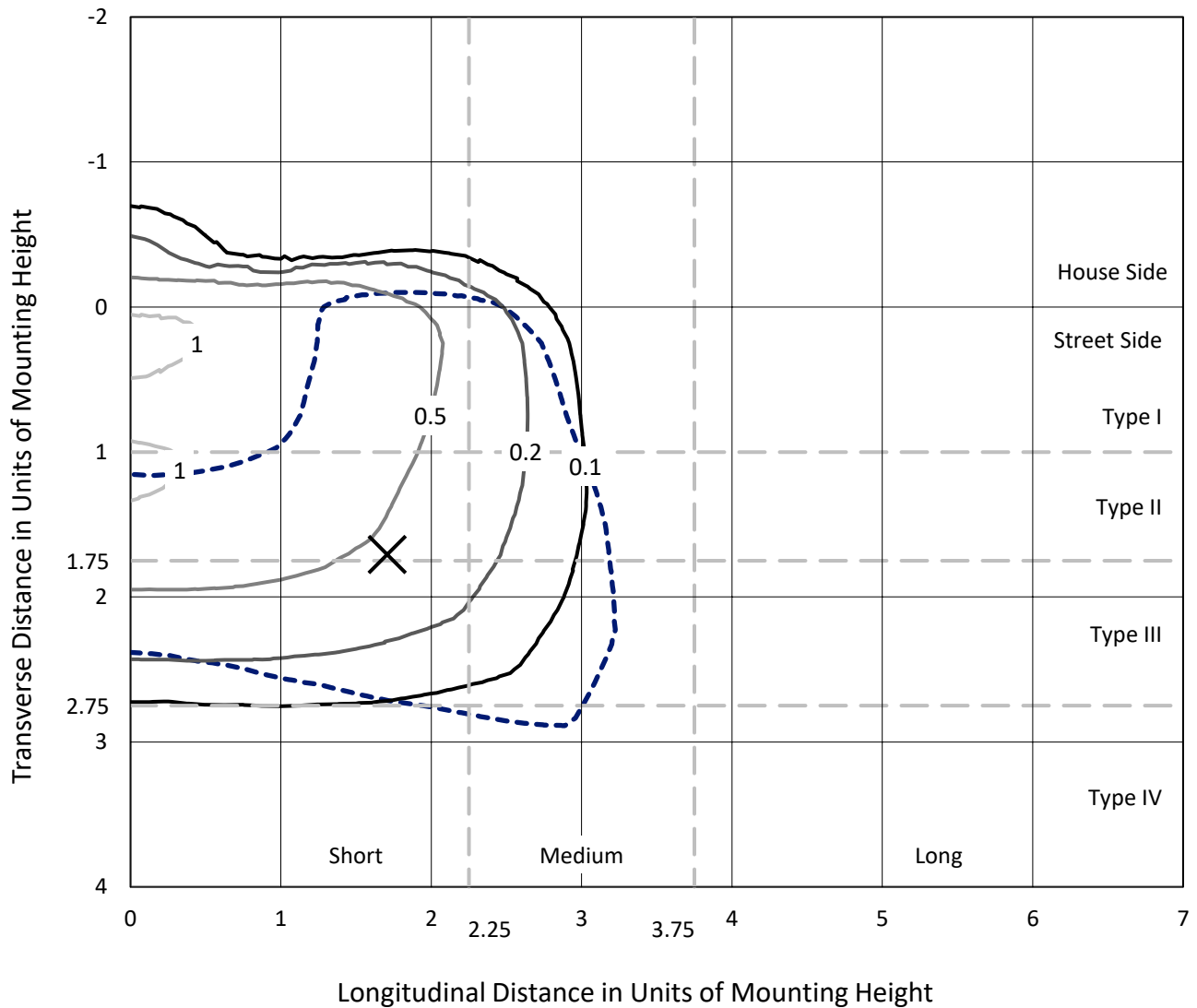
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

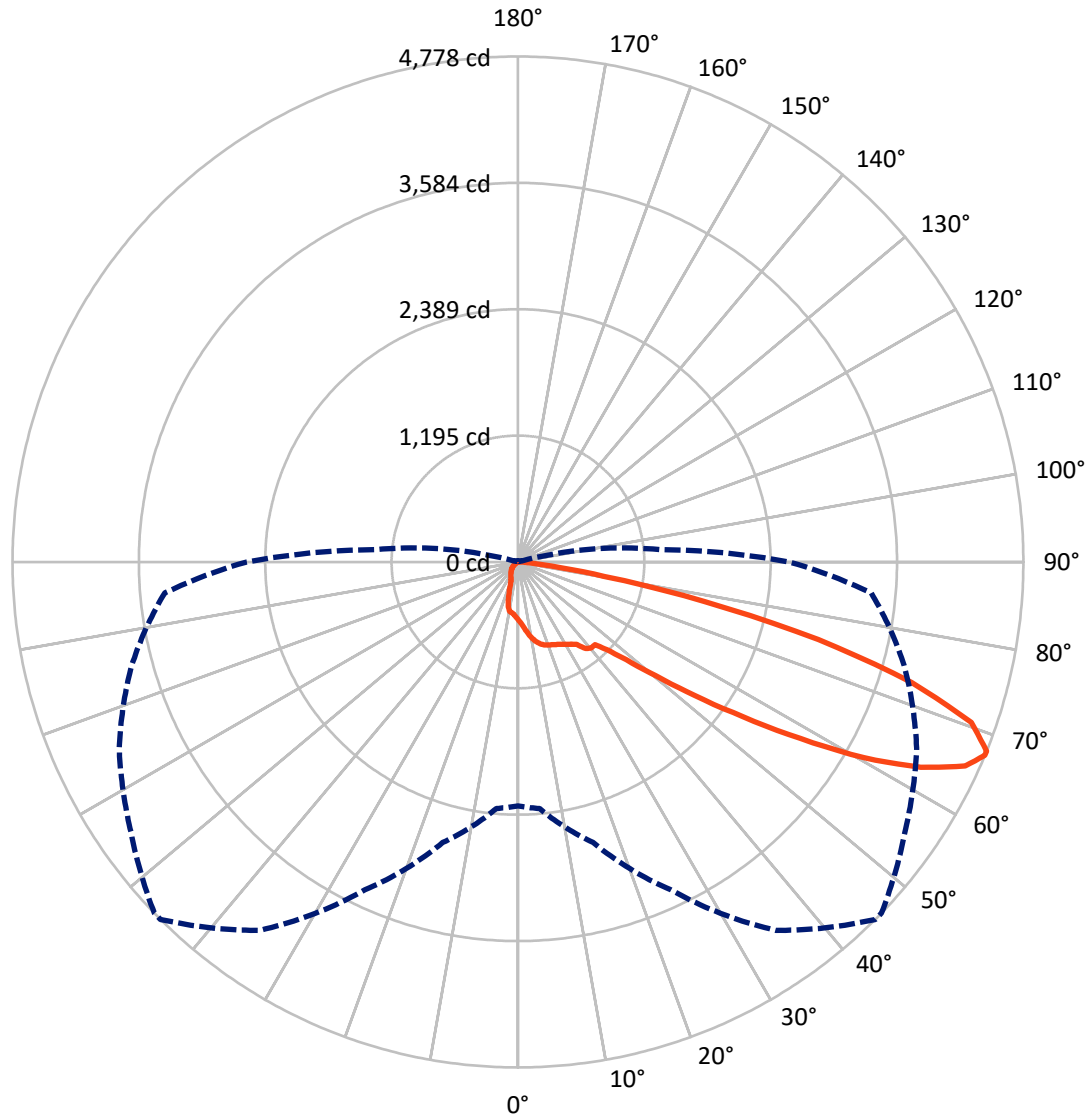
✕ Max cd
 - - - 1/2 Max cd



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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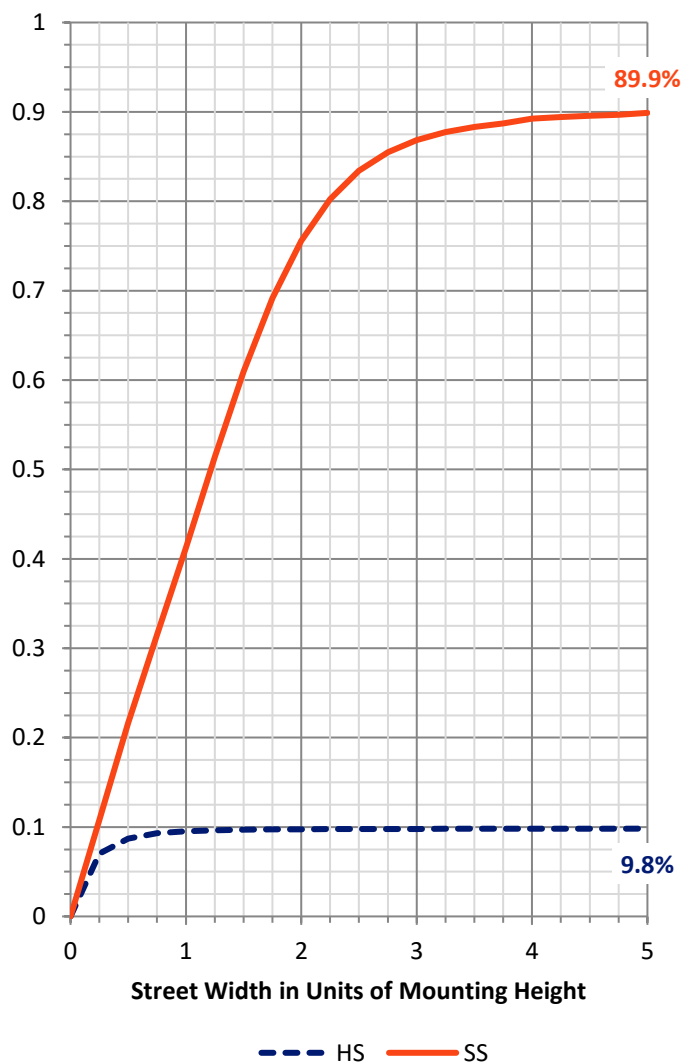
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.7	0.0	574.7
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	5225.3	0.0	5225.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	5800.0	0.0	5800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.9
10°-20°	166.4	2.9
20°-30°	266.2	4.6
30°-40°	383.2	6.6
40°-50°	672.2	11.6
50°-60°	1416.3	24.4
60°-70°	1958.6	33.8
70°-80°	820.0	14.1
80°-90°	62.0	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°	5800.0	100.0
0°-180°	5800.0	100.0

Coefficient of Utilization

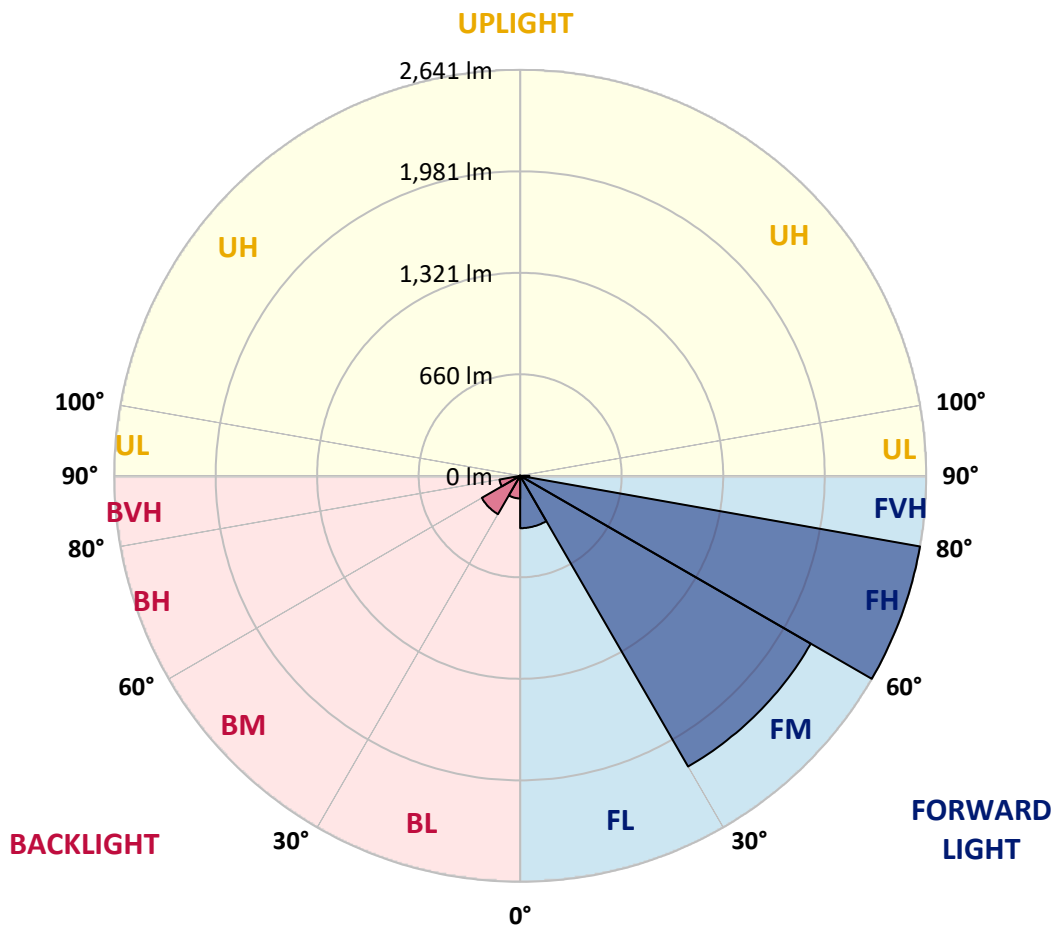


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.4	5.9			
FM (30°-60°)	2183.8	37.7			
FH (60°-80°)	2641.2	45.5			G2/5000
FVH (80°-90°)	59.9	1.0			G1/100
BL (0°-30°)	147.3	2.5	B1/500		
BM (30°-60°)	287.9	5.0	B1/1000		
BH (60°-80°)	137.4	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°	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5
2.5°	610.7	599.9	597.8	595.7	589.2	580.7	582.8	576.4	565.7	559.2	552.8
5°	685.7	674.9	670.7	657.8	644.9	625.7	625.7	608.5	589.2	572.1	555.0
7.5°	762.8	754.2	745.6	726.4	707.1	681.4	679.2	653.5	623.5	597.8	570.0
10°	827.1	820.6	809.9	786.4	760.6	732.8	726.4	702.8	664.2	629.9	593.5
12.5°	878.5	872.1	857.1	833.5	801.4	773.5	771.4	741.4	702.8	666.4	621.4
15°	917.1	906.3	889.2	863.5	831.4	805.6	801.4	775.6	739.2	698.5	644.9
17.5°	923.5	917.1	902.1	874.2	846.4	824.9	822.8	803.5	771.4	728.5	672.8
20°	906.3	904.2	891.4	869.9	848.5	837.8	835.6	822.8	797.1	758.5	702.8
22.5°	880.6	878.5	869.9	859.2	850.6	848.5	848.5	844.2	829.2	792.8	741.4
25°	863.5	861.4	857.1	850.6	850.6	863.5	865.6	869.9	857.1	829.2	773.5
27.5°	865.6	861.4	857.1	850.6	859.2	882.8	884.9	895.6	884.9	859.2	809.9
30°	895.6	889.2	876.4	861.4	872.1	904.2	906.3	919.2	910.6	897.8	850.6
32.5°	942.8	938.5	912.8	887.1	893.5	925.6	929.9	953.5	964.2	944.9	887.1
35°	1011.3	996.3	964.2	938.5	934.2	957.8	964.2	1002.8	1030.6	983.5	908.5
37.5°	1067.1	1054.2	1002.8	962.1	985.6	1039.2	1041.3	1088.5	1064.9	987.8	942.8
40°	1255.6	1253.5	1163.5	1034.9	1009.2	1069.2	1077.8	1086.3	1075.6	1037.1	1017.8
42.5°	1559.9	1534.2	1433.4	1236.3	1060.6	1067.1	1071.3	1116.3	1172.0	1154.9	1161.3
45°	1889.8	1868.4	1754.8	1506.3	1236.3	1182.8	1187.0	1259.9	1367.0	1388.5	1422.7
47.5°	2194.1	2159.8	2095.5	1844.8	1536.3	1379.9	1388.5	1476.3	1654.1	1701.3	1754.8
50°	2451.2	2427.6	2367.7	2202.7	1904.8	1690.6	1699.1	1772.0	2003.4	2078.4	2147.0
52.5°	2824.0	2791.9	2676.2	2599.1	2374.1	2095.5	2076.2	2153.4	2419.1	2468.4	2560.5
55°	3166.9	3100.4	3031.9	2999.7	2905.5	2579.8	2573.3	2588.3	2809.0	2834.8	2999.7
57.5°	3312.6	3299.7	3357.6	3464.7	3486.1	3149.7	3121.9	3064.0	3237.6	3235.4	3428.3
60°	3404.7	3404.7	3559.0	3824.7	3996.1	3758.2	3719.7	3539.7	3601.8	3604.0	3781.8
62.5°	3346.9	3361.9	3601.8	4002.5	4347.5	4274.6	4248.9	3946.8	3942.5	3893.2	3955.4
65°	2989.0	3014.7	3400.4	3903.9	4476.0	4647.5	4636.7	4293.9	4169.6	3989.7	3850.4
67°	2438.4	2485.5	2952.6	3548.3	4330.3	4776.0	4778.2	4443.9	4171.8	3829.0	3479.7
67.5°	2305.5	2339.8	2744.8	3419.7	4251.1	4778.2	4778.2	4463.2	4158.9	3779.7	3351.1
70°	1469.9	1478.4	1919.8	2646.2	3631.8	4546.7	4563.9	4317.5	3788.2	3059.7	2352.7
72.5°	726.4	707.1	1013.5	1703.4	2725.5	3891.1	3936.1	3687.5	2997.6	1999.1	1242.7
75°	285.0	304.3	441.4	906.3	1707.7	2933.3	2967.6	2682.6	1928.4	1030.6	490.7
77.5°	126.4	126.4	188.6	407.1	897.8	1799.8	1817.0	1637.0	1017.8	424.2	150.0
80°	68.6	72.9	98.6	177.8	452.1	827.1	902.1	812.1	460.7	186.4	51.4
82.5°	34.3	36.4	60.0	100.7	227.1	312.8	330.0	345.0	212.1	115.7	21.4
85°	12.9	15.0	32.1	57.9	102.8	105.0	105.0	135.0	115.7	87.8	10.7
87.5°	2.1	4.3	15.0	23.6	40.7	36.4	32.1	42.9	64.3	55.7	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°	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5
2.5°	548.5	544.2	535.7	529.2	525.0	520.7	516.4	516.4	514.2	514.2	516.4
5°	548.5	540.0	522.8	512.1	503.5	497.1	492.8	492.8	490.7	492.8	495.0
7.5°	559.2	546.4	522.8	503.5	492.8	482.1	477.8	475.7	475.7	477.8	475.7
10°	576.4	559.2	529.2	503.5	488.5	473.5	450.0	428.5	409.3	400.7	398.5
12.5°	597.8	576.4	540.0	510.0	486.4	435.0	370.7	330.0	304.3	291.4	287.1
15°	621.4	595.7	552.8	518.5	454.2	357.8	274.3	229.3	214.3	216.4	218.6
17.5°	647.1	619.2	572.1	514.2	390.0	265.7	201.4	190.7	197.1	203.6	203.6
20°	672.8	642.8	591.4	482.1	306.4	197.1	180.0	182.1	188.6	195.0	195.0
22.5°	707.1	674.9	610.7	426.4	227.1	171.4	171.4	175.7	180.0	186.4	186.4
25°	743.5	711.4	623.5	357.8	169.3	160.7	162.8	167.1	171.4	177.8	177.8
27.5°	782.1	749.9	621.4	276.4	147.8	147.8	150.0	156.4	160.7	167.1	167.1
30°	824.9	797.1	597.8	201.4	137.1	135.0	135.0	141.4	147.8	152.1	154.3
32.5°	861.4	837.8	557.1	152.1	128.6	124.3	122.1	124.3	130.7	135.0	137.1
35°	891.4	882.8	497.1	130.7	120.0	113.6	109.3	107.1	109.3	109.3	111.4
37.5°	947.1	949.2	426.4	122.1	113.6	105.0	96.4	90.0	85.7	83.6	81.4
40°	1052.1	1049.9	351.4	115.7	107.1	96.4	83.6	75.0	64.3	60.0	60.0
42.5°	1199.9	1167.8	267.8	109.3	100.7	87.8	70.7	57.9	47.1	45.0	45.0
45°	1465.6	1332.7	201.4	105.0	94.3	77.1	57.9	42.9	36.4	34.3	34.3
47.5°	1759.1	1523.4	160.7	98.6	87.8	68.6	45.0	34.3	27.9	27.9	27.9
50°	2082.7	1705.6	135.0	92.1	77.1	57.9	36.4	27.9	25.7	23.6	25.7
52.5°	2436.2	1849.1	117.8	83.6	66.4	47.1	30.0	25.7	21.4	21.4	21.4
55°	2753.3	1945.5	98.6	72.9	55.7	38.6	27.9	21.4	19.3	17.1	15.0
57.5°	3040.5	1997.0	79.3	62.1	42.9	32.1	23.6	17.1	15.0	10.7	10.7
60°	3188.3	1949.8	62.1	49.3	34.3	25.7	19.3	15.0	10.7	6.4	6.4
62.5°	3211.9	1827.7	49.3	38.6	30.0	21.4	15.0	10.7	6.4	4.3	4.3
65°	3006.2	1613.4	40.7	32.1	23.6	17.1	12.9	8.6	4.3	2.1	2.1
67°	2637.6	1388.5	36.4	27.9	21.4	15.0	10.7	6.4	4.3	2.1	0.0
67.5°	2564.8	1347.7	34.3	27.9	21.4	15.0	10.7	6.4	4.3	2.1	0.0
70°	1684.1	932.1	32.1	25.7	19.3	12.9	8.6	6.4	2.1	0.0	0.0
72.5°	919.2	469.2	30.0	23.6	17.1	12.9	8.6	4.3	2.1	0.0	0.0
75°	336.4	177.8	25.7	21.4	15.0	12.9	8.6	4.3	2.1	0.0	0.0
77.5°	113.6	62.1	23.6	21.4	17.1	12.9	8.6	4.3	2.1	0.0	0.0
80°	38.6	27.9	19.3	17.1	12.9	10.7	8.6	4.3	2.1	0.0	0.0
82.5°	15.0	8.6	6.4	6.4	6.4	8.6	8.6	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)