

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: P400488

Luminaire Tested: **ARCH-L-PA3-90-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10370 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

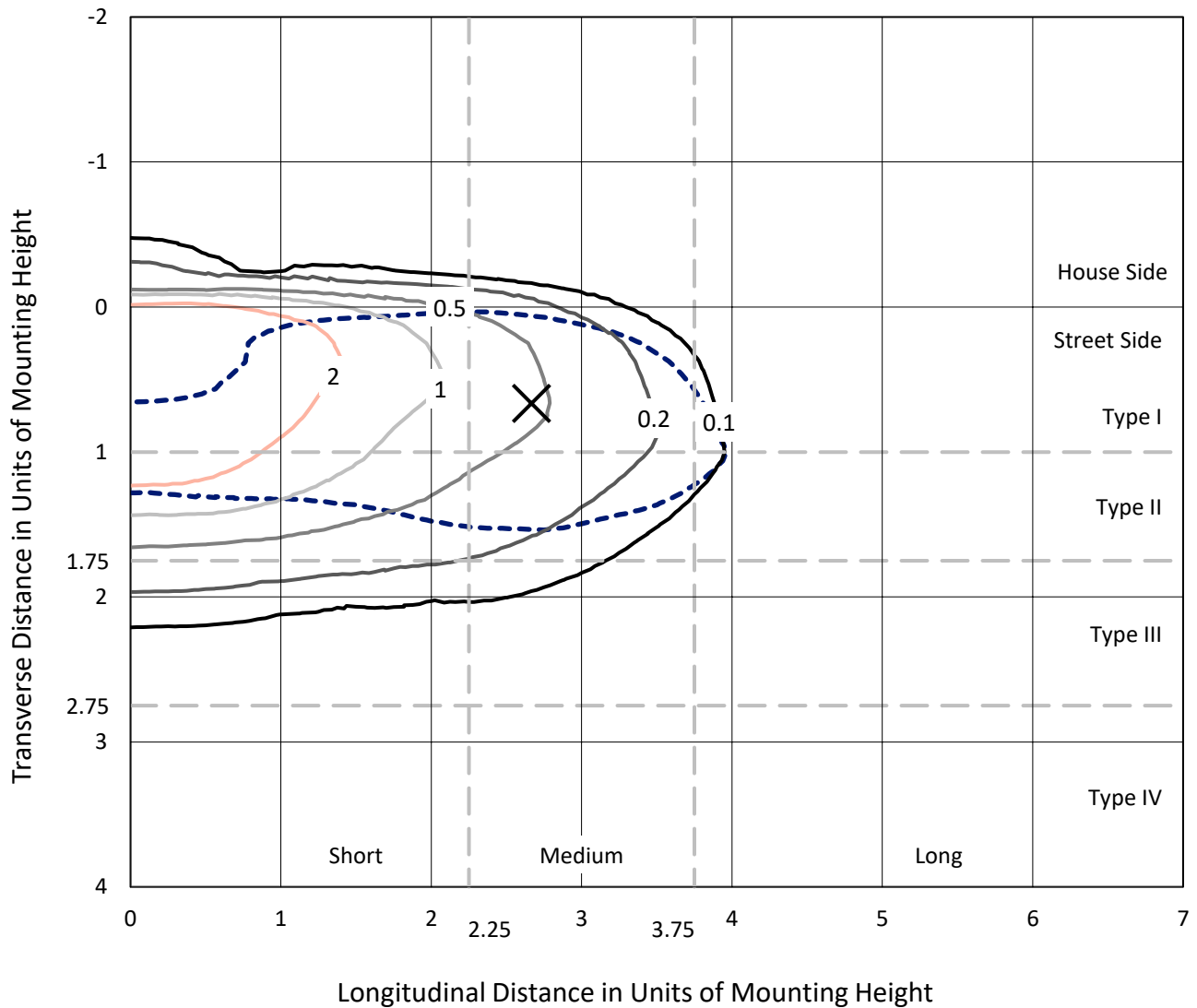
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

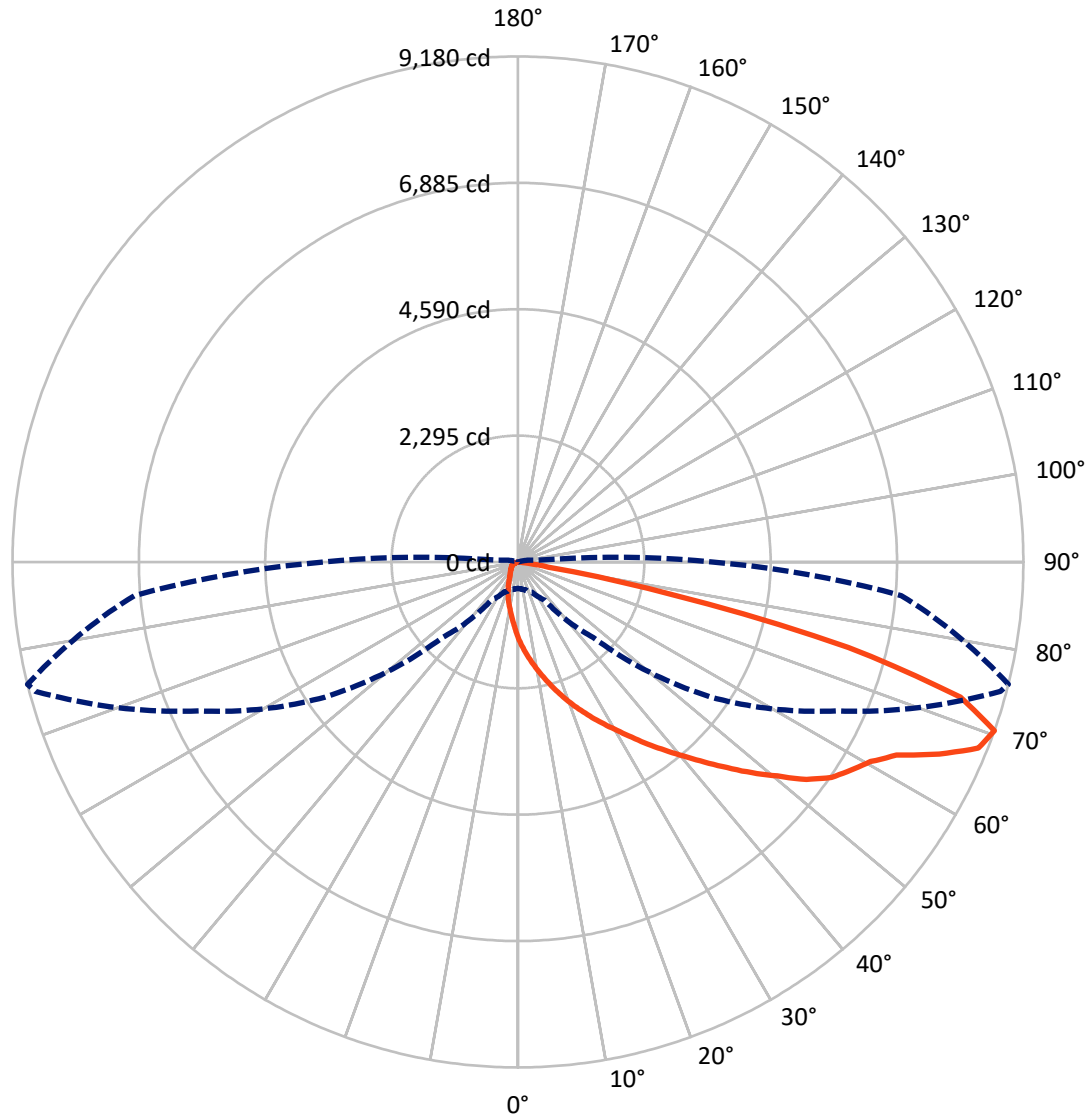
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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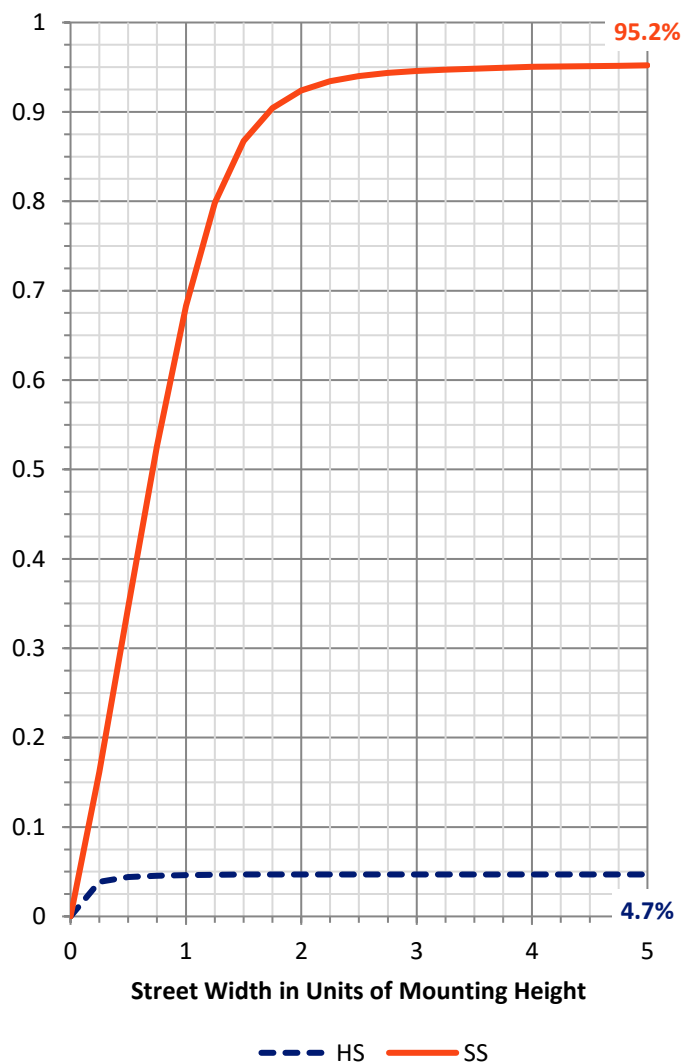
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.1	0.0	489.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9880.9	0.0	9880.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	10370.0	0.0	10370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.3
10°-20°	422.1	4.1
20°-30°	786.0	7.6
30°-40°	1390.3	13.4
40°-50°	2126.1	20.5
50°-60°	2410.5	23.2
60°-70°	2066.4	19.9
70°-80°	1000.8	9.7
80°-90°	37.1	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°	10370.0	100.0
0°-180°	10370.0	100.0

Coefficient of Utilization

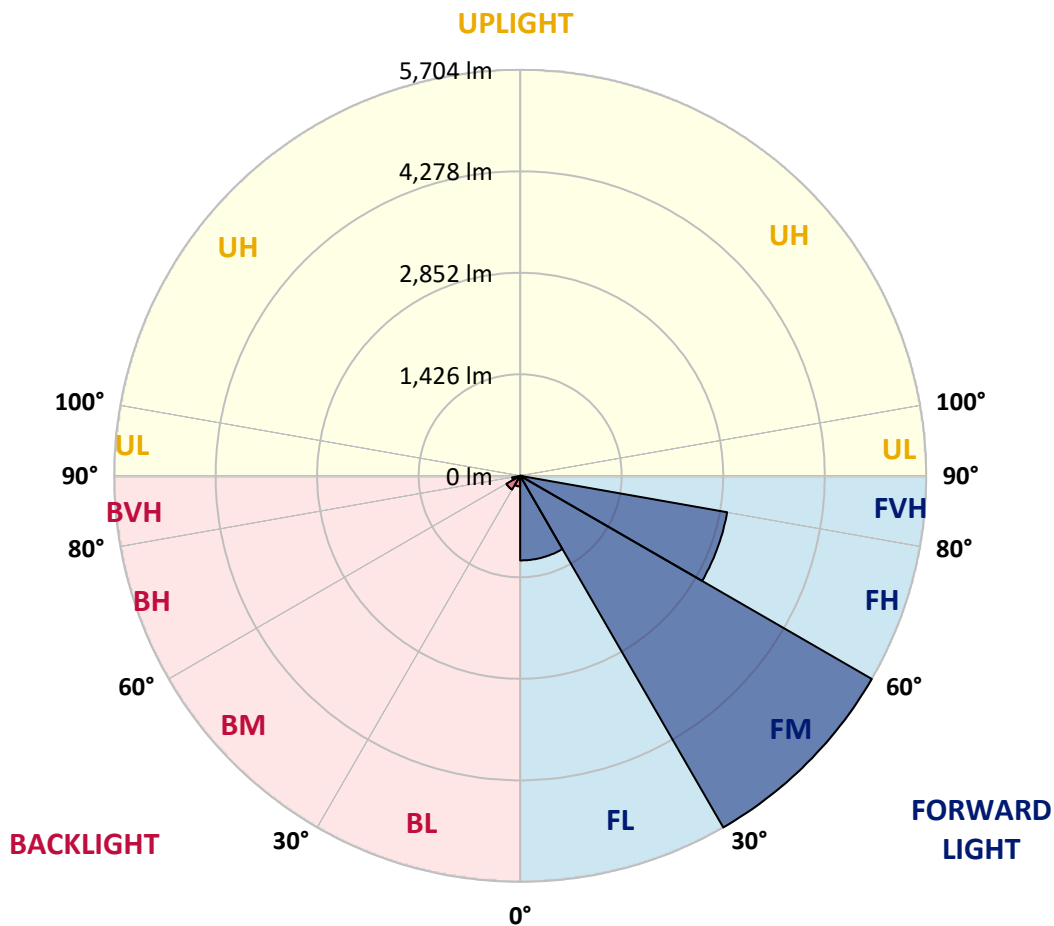


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.8	11.5			
FM (30°-60°)	5703.6	55.0			
FH (60°-80°)	2952.0	28.5			G2/5000
FVH (80°-90°)	36.5	0.4			G1/100
BL (0°-30°)	150.0	1.4	B1/500		
BM (30°-60°)	223.3	2.2	B1/1000		
BH (60°-80°)	115.2	1.1	B1/500		G1/500
BVH (80°-90°)	0.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1
2.5°	1897.4	1887.0	1876.7	1837.0	1800.7	1767.9	1705.8	1624.6	1552.1	1536.6	1452.0
5°	2228.9	2216.8	2201.3	2161.6	2114.9	2059.7	1968.2	1843.9	1716.1	1688.5	1531.4
7.5°	2453.3	2443.0	2420.5	2401.5	2354.9	2301.4	2199.5	2054.5	1878.4	1843.9	1622.9
10°	2607.0	2600.1	2596.6	2581.1	2546.6	2503.4	2401.5	2249.6	2042.4	2002.7	1719.6
12.5°	2662.2	2662.2	2679.5	2705.4	2710.6	2696.8	2603.5	2451.6	2215.1	2173.6	1833.5
15°	2588.0	2596.6	2634.6	2717.5	2803.8	2860.8	2802.1	2660.5	2405.0	2360.1	1968.2
17.5°	2567.3	2575.9	2601.8	2674.3	2790.0	2941.9	2971.3	2862.5	2584.5	2546.6	2106.3
20°	2626.0	2634.6	2657.1	2719.2	2807.3	2960.9	3083.5	3057.6	2774.5	2734.7	2246.2
22.5°	2765.8	2771.0	2771.0	2819.3	2897.0	3011.0	3154.3	3242.3	2969.5	2926.4	2384.3
25°	3066.2	3055.9	3014.4	2990.3	3040.3	3133.6	3244.1	3404.6	3187.1	3128.4	2532.7
27.5°	3459.9	3494.4	3394.3	3278.6	3240.6	3294.1	3370.1	3547.9	3397.7	3335.6	2667.4
30°	3993.4	3979.5	3848.3	3682.6	3518.6	3499.6	3525.5	3670.5	3608.3	3549.6	2817.6
32.5°	4431.9	4457.8	4319.7	4117.7	3872.5	3756.8	3729.2	3817.3	3832.8	3794.8	2995.4
35°	4882.5	4910.1	4775.4	4551.0	4259.2	4065.9	3986.4	3998.5	4110.8	4062.4	3181.9
37.5°	5286.5	5310.7	5177.7	4948.1	4656.3	4419.8	4305.8	4212.6	4380.1	4336.9	3378.7
40°	5593.8	5597.3	5507.5	5302.0	5025.8	4780.6	4651.1	4468.1	4665.0	4635.6	3584.2
42.5°	5811.3	5818.2	5752.6	5576.5	5321.0	5093.1	4987.8	4770.3	4993.0	4967.1	3822.4
45°	5913.2	5925.3	5918.4	5756.1	5543.7	5346.9	5312.4	5091.4	5352.1	5327.9	4096.9
47.5°	5816.5	5816.5	5904.6	5882.1	5687.0	5555.8	5595.5	5426.3	5742.3	5719.8	4376.6
50°	5414.2	5419.4	5599.0	5856.2	5742.3	5712.9	5837.2	5754.4	6096.2	6110.0	4711.6
52.5°	4357.6	4349.0	4955.0	5448.8	5704.3	5783.7	6059.9	6089.3	6520.9	6562.4	5044.8
55°	3256.1	3251.0	3831.1	4727.1	5438.4	5747.5	6184.3	6388.0	6883.5	6909.4	5293.4
57.5°	2577.6	2563.8	2883.2	3810.3	4837.6	5585.2	6189.4	6445.0	7085.5	7130.4	5535.1
60°	1982.0	1969.9	2208.2	2834.9	3986.4	5153.5	6041.0	6448.4	7280.6	7360.0	5859.7
62.5°	1417.4	1431.3	1614.3	2033.8	3066.2	4544.1	5847.6	6496.7	7627.6	7717.4	6320.6
65°	956.5	949.6	1101.5	1384.6	2180.5	3724.0	5550.6	6598.6	8252.6	8409.7	6873.1
67.5°	664.7	669.9	738.9	901.2	1384.6	2859.1	5056.9	6655.6	8898.3	9020.9	7259.9
70°	480.0	486.9	524.9	606.0	846.0	1938.8	4274.8	6394.9	9072.7	9179.7	6990.5
72.5°	315.9	329.8	386.7	429.9	540.4	1213.7	3149.1	5509.2	8321.6	8401.1	5864.9
75°	170.9	174.4	248.6	321.1	385.0	756.2	1878.4	3715.4	6225.7	6199.8	3867.3
77.5°	132.9	138.1	153.7	229.6	259.0	416.1	742.4	1678.1	2948.8	2869.4	1319.0
80°	81.1	84.6	107.0	136.4	181.3	241.7	217.5	455.8	599.1	561.1	193.4
82.5°	48.3	51.8	63.9	113.9	143.3	113.9	76.0	110.5	112.2	110.5	48.3
85°	8.6	8.6	44.9	79.4	76.0	32.8	44.9	36.3	32.8	34.5	10.4
87.5°	0.0	0.0	17.3	24.2	34.5	12.1	17.3	8.6	8.6	8.6	5.2
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°	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1	1388.1
2.5°	1400.2	1341.5	1220.6	1115.3	1010.0	932.3	873.6	813.2	792.5	766.6	752.7
5°	1424.3	1308.7	1068.7	877.1	714.8	590.5	511.0	462.7	431.6	409.2	404.0
7.5°	1460.6	1282.8	946.1	687.1	509.3	385.0	319.4	286.6	269.3	259.0	255.5
10°	1503.8	1260.3	825.3	535.2	359.1	271.1	234.8	221.0	214.1	210.6	208.9
12.5°	1564.2	1251.7	723.4	412.6	271.1	222.7	203.7	195.1	189.9	184.7	183.0
15°	1643.6	1255.2	630.2	319.4	224.4	198.5	183.0	174.4	167.5	162.3	162.3
17.5°	1726.5	1260.3	538.7	259.0	203.7	181.3	164.0	151.9	146.8	141.6	139.8
20°	1804.2	1258.6	450.6	221.0	184.7	162.3	145.0	132.9	124.3	119.1	119.1
22.5°	1878.4	1248.2	367.7	198.5	169.2	143.3	124.3	112.2	105.3	100.1	100.1
25°	1957.8	1227.5	300.4	181.3	150.2	126.0	107.0	95.0	89.8	84.6	84.6
27.5°	2020.0	1193.0	245.2	165.7	132.9	108.8	91.5	81.1	76.0	72.5	72.5
30°	2087.3	1142.9	203.7	148.5	115.7	93.2	77.7	69.1	63.9	62.2	62.2
32.5°	2161.6	1087.7	174.4	131.2	98.4	79.4	65.6	60.4	55.2	53.5	53.5
35°	2247.9	1039.3	157.1	113.9	86.3	67.3	57.0	51.8	48.3	48.3	48.3
37.5°	2346.3	989.3	141.6	100.1	74.2	57.0	48.3	46.6	44.9	43.2	43.2
40°	2453.3	935.8	127.8	88.1	63.9	48.3	41.4	41.4	39.7	39.7	39.7
42.5°	2574.2	889.1	115.7	77.7	55.2	41.4	36.3	36.3	34.5	34.5	34.5
45°	2705.4	846.0	105.3	69.1	48.3	36.3	32.8	31.1	29.4	29.4	29.4
47.5°	2860.8	821.8	96.7	60.4	41.4	31.1	27.6	25.9	24.2	22.4	22.4
50°	3059.3	832.2	88.1	50.1	36.3	25.9	22.4	20.7	19.0	17.3	17.3
52.5°	3216.4	827.0	76.0	43.2	29.4	20.7	17.3	15.5	13.8	12.1	12.1
55°	3330.4	806.3	65.6	36.3	22.4	17.3	13.8	10.4	8.6	8.6	8.6
57.5°	3442.6	785.5	55.2	29.4	17.3	12.1	8.6	6.9	6.9	6.9	6.9
60°	3617.0	756.2	48.3	24.2	13.8	8.6	5.2	5.2	3.5	3.5	3.5
62.5°	3829.3	719.9	39.7	20.7	10.4	6.9	3.5	3.5	0.0	0.0	0.0
65°	4062.4	656.1	32.8	15.5	8.6	5.2	3.5	0.0	0.0	0.0	0.0
67.5°	4008.9	526.6	27.6	10.4	6.9	3.5	1.7	0.0	0.0	0.0	0.0
70°	3546.2	355.7	22.4	8.6	5.2	3.5	1.7	0.0	0.0	0.0	0.0
72.5°	2777.9	210.6	15.5	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
75°	1778.3	105.3	10.4	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	595.6	51.8	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	84.6	17.3	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	6.9	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	0.0	0.0	0.0	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)