

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: P399264

Luminaire Tested: **ARCH-L-PA3-120-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399264
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-PA3-120-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 530mA 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: 13155 lumens
Efficiency: N/A
Efficacy: 107.0 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

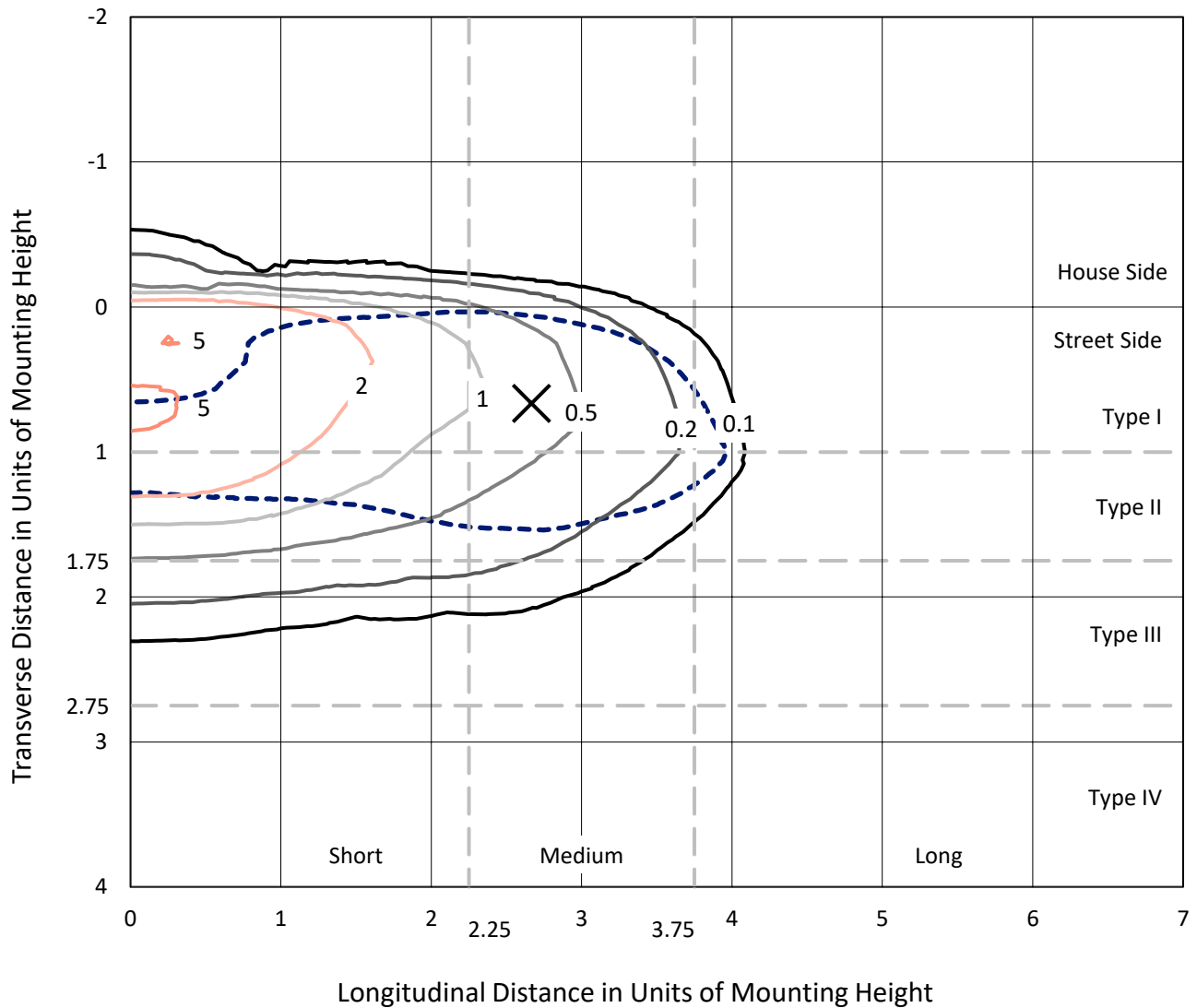
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

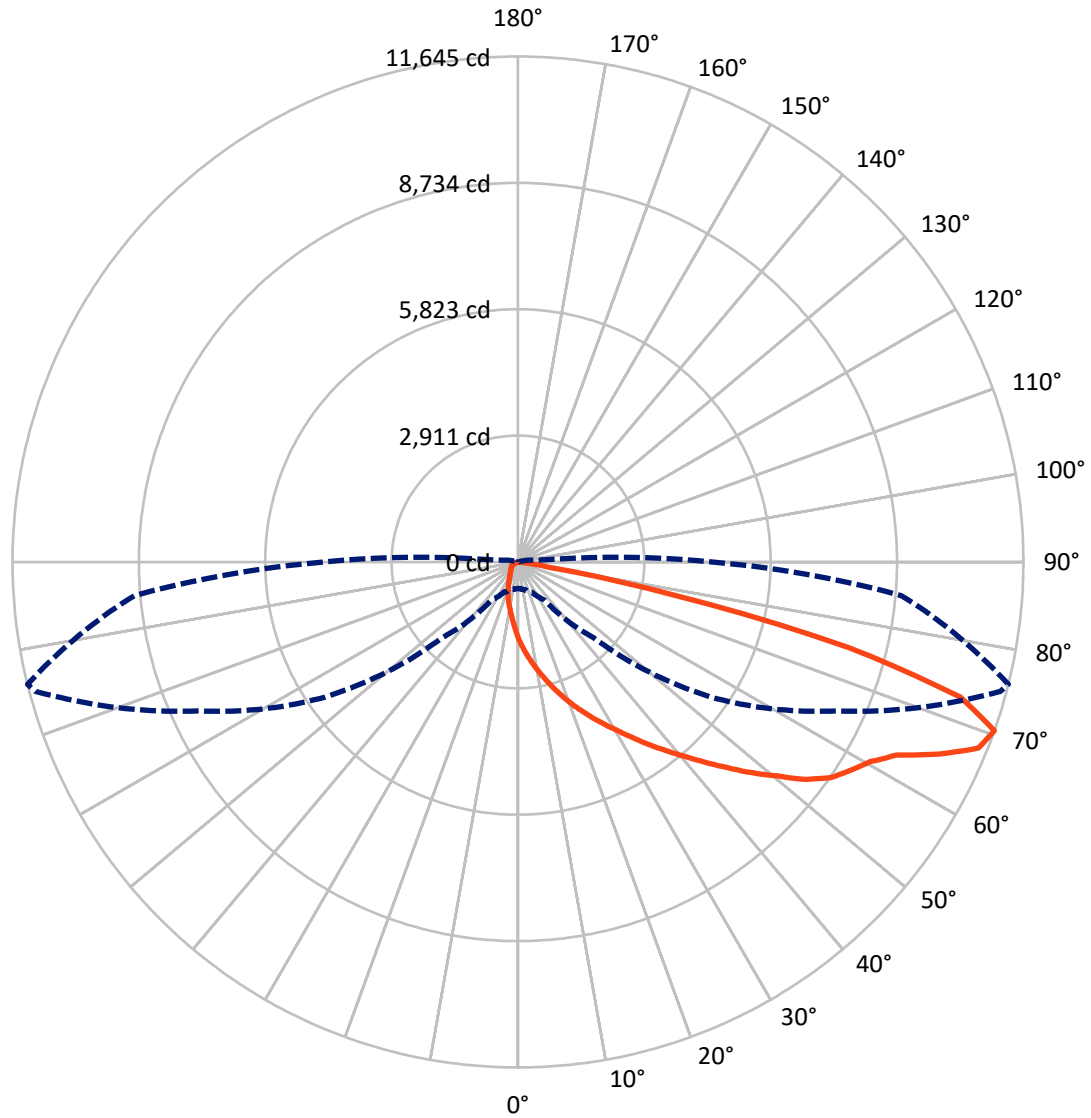
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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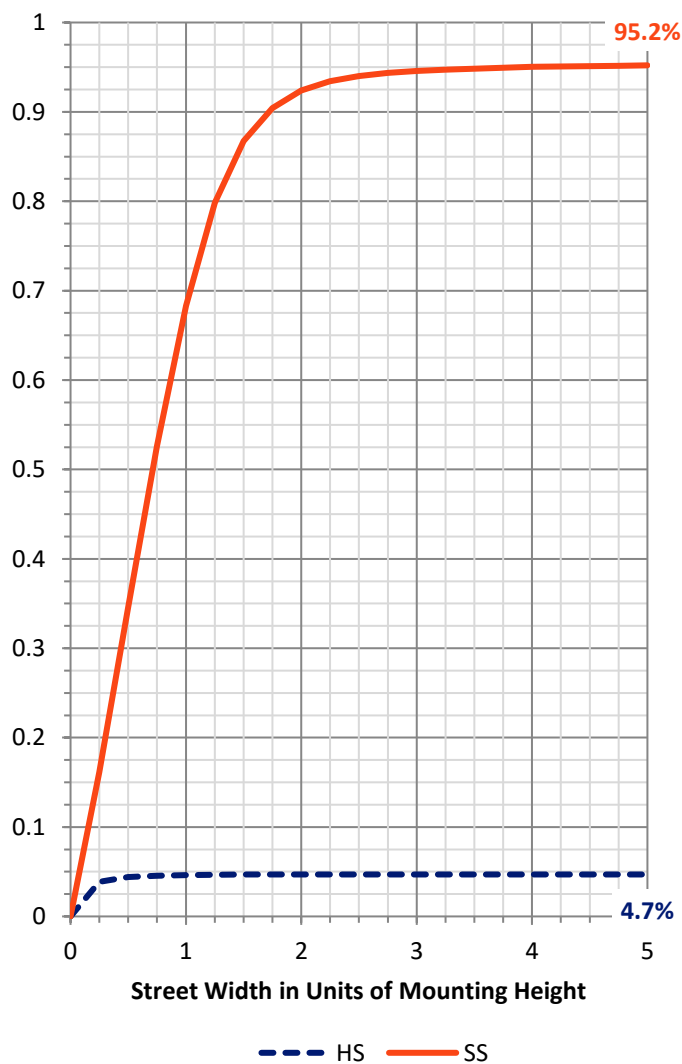
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.4	0.0	620.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12534.6	0.0	12534.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	13155.0	0.0	13155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.3
10°-20°	535.4	4.1
20°-30°	997.1	7.6
30°-40°	1763.7	13.4
40°-50°	2697.1	20.5
50°-60°	3057.8	23.2
60°-70°	2621.3	19.9
70°-80°	1269.6	9.7
80°-90°	47.1	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°	13155.0	100.0
0°-180°	13155.0	100.0

Coefficient of Utilization



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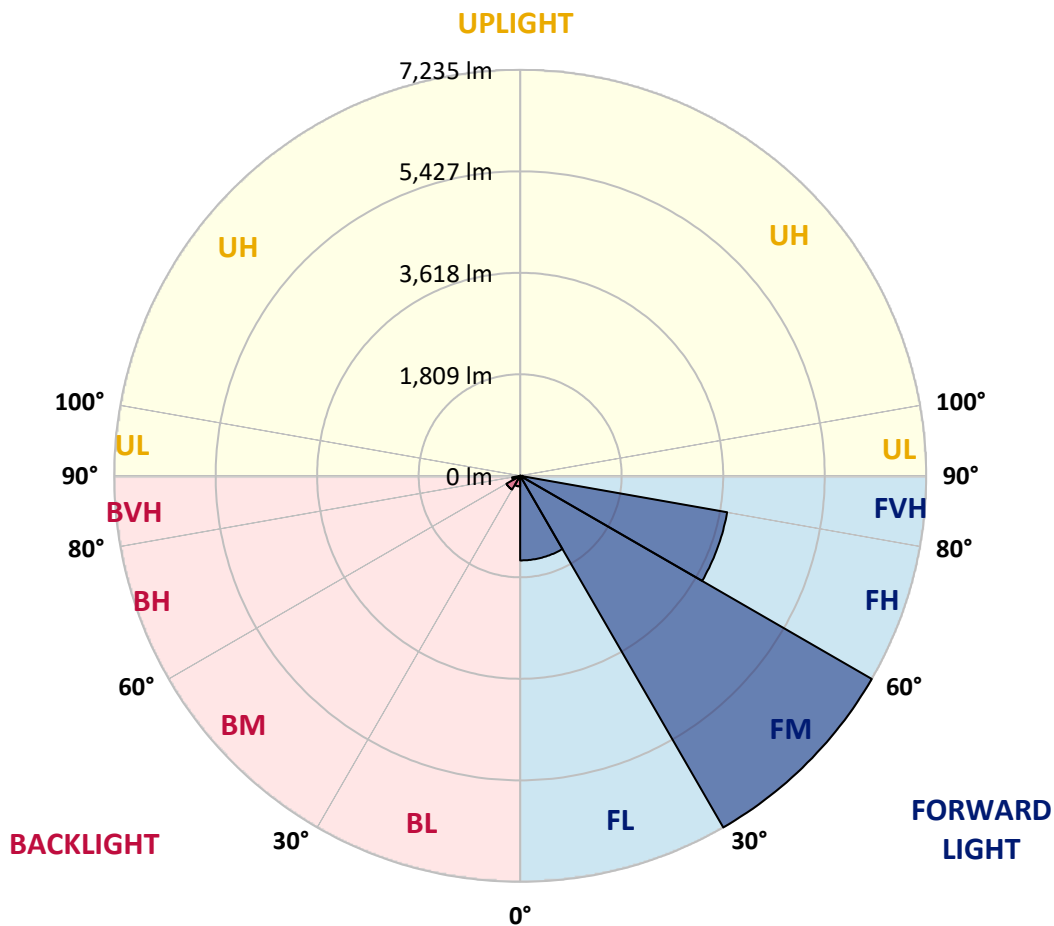
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.1	11.5			
FM (30°-60°)	7235.4	55.0			
FH (60°-80°)	3744.8	28.5			G2/5000
FVH (80°-90°)	46.3	0.4			G1/100
BL (0°-30°)	190.3	1.4	B1/500		
BM (30°-60°)	283.2	2.2	B1/1000		
BH (60°-80°)	146.1	1.1	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9
2.5°	2407.0	2393.8	2380.7	2330.3	2284.3	2242.7	2163.9	2060.9	1968.9	1949.2	1841.9
5°	2827.5	2812.2	2792.4	2742.1	2682.9	2612.8	2496.8	2339.1	2177.0	2142.0	1942.7
7.5°	3112.2	3099.1	3070.6	3046.5	2987.4	2919.5	2790.3	2606.3	2382.9	2339.1	2058.7
10°	3307.1	3298.4	3294.0	3274.3	3230.5	3175.7	3046.5	2853.8	2590.9	2540.6	2181.4
12.5°	3377.2	3377.2	3399.1	3432.0	3438.5	3421.0	3302.7	3110.0	2810.0	2757.4	2325.9
15°	3283.0	3294.0	3342.2	3447.3	3556.8	3629.1	3554.6	3375.0	3050.9	2993.9	2496.8
17.5°	3256.8	3267.7	3300.6	3392.5	3539.3	3732.0	3769.2	3631.3	3278.7	3230.5	2672.0
20°	3331.2	3342.2	3370.6	3449.5	3561.2	3756.1	3911.6	3878.8	3519.6	3469.2	2849.4
22.5°	3508.6	3515.2	3515.2	3576.5	3675.1	3819.6	4001.4	4113.1	3767.1	3712.3	3024.6
25°	3889.7	3876.6	3824.0	3793.3	3856.9	3975.1	4115.3	4319.0	4043.0	3968.6	3213.0
27.5°	4389.1	4432.9	4305.8	4159.1	4110.9	4178.8	4275.2	4500.8	4310.2	4231.4	3383.8
30°	5065.8	5048.3	4881.8	4671.6	4463.5	4439.4	4472.3	4656.3	4577.4	4503.0	3574.3
32.5°	5622.1	5655.0	5479.8	5223.5	4912.5	4765.8	4730.7	4842.4	4862.1	4814.0	3799.9
35°	6193.7	6228.8	6058.0	5773.2	5403.1	5157.8	5057.1	5072.4	5214.7	5153.4	4036.4
37.5°	6706.2	6736.9	6568.3	6277.0	5906.8	5606.8	5462.2	5344.0	5556.4	5501.7	4286.1
40°	7096.1	7100.5	6986.6	6726.0	6375.5	6064.5	5900.3	5668.1	5917.8	5880.6	4546.8
42.5°	7372.0	7380.8	7297.6	7074.2	6750.0	6460.9	6327.3	6051.4	6333.9	6301.1	4849.0
45°	7501.3	7516.6	7507.8	7302.0	7032.6	6782.9	6739.1	6458.8	6789.5	6758.8	5197.2
47.5°	7378.6	7378.6	7490.3	7461.8	7214.4	7047.9	7098.3	6883.6	7284.4	7256.0	5552.0
50°	6868.3	6874.9	7102.7	7429.0	7284.4	7247.2	7404.9	7299.8	7733.4	7750.9	5976.9
52.5°	5527.9	5517.0	6285.7	6912.1	7236.3	7337.0	7687.4	7724.7	8272.2	8324.8	6399.6
55°	4130.6	4124.1	4859.9	5996.6	6899.0	7291.0	7845.1	8103.6	8732.1	8765.0	6715.0
57.5°	3269.9	3252.4	3657.6	4833.7	6136.8	7085.1	7851.7	8175.8	8988.4	9045.3	7021.6
60°	2514.3	2499.0	2801.2	3596.2	5057.1	6537.6	7663.3	8180.2	9235.9	9336.6	7433.4
62.5°	1798.1	1815.6	2047.8	2580.0	3889.7	5764.5	7418.0	8241.5	9676.1	9790.0	8018.1
65°	1213.3	1204.6	1397.3	1756.5	2766.2	4724.2	7041.3	8370.8	10468.9	10668.2	8719.0
67.5°	843.2	849.8	937.4	1143.3	1756.5	3626.9	6415.0	8443.0	11288.0	11443.5	9209.6
70°	608.9	617.6	665.8	768.7	1073.2	2459.5	5422.8	8112.3	11509.2	11645.0	8867.9
72.5°	400.8	418.3	490.6	545.3	685.5	1539.7	3994.8	6988.8	10556.5	10657.3	7439.9
75°	216.8	221.2	315.4	407.4	488.4	959.3	2382.9	4713.2	7897.7	7864.8	4905.9
77.5°	168.6	175.2	194.9	291.3	328.5	527.8	941.8	2128.8	3740.8	3640.0	1673.3
80°	102.9	107.3	135.8	173.0	230.0	306.6	276.0	578.2	760.0	711.8	245.3
82.5°	61.3	65.7	81.0	144.5	181.8	144.5	96.4	140.2	142.4	140.2	61.3
85°	11.0	11.0	56.9	100.7	96.4	41.6	56.9	46.0	41.6	43.8	13.1
87.5°	0.0	0.0	21.9	30.7	43.8	15.3	21.9	11.0	11.0	11.0	6.6
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°	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9
2.5°	1776.2	1701.7	1548.4	1414.8	1281.2	1182.7	1108.2	1031.6	1005.3	972.4	954.9
5°	1806.9	1660.1	1355.7	1112.6	906.7	749.0	648.3	587.0	547.5	519.1	512.5
7.5°	1852.9	1627.3	1200.2	871.7	646.1	488.4	405.2	363.6	341.7	328.5	324.1
10°	1907.6	1598.8	1046.9	678.9	455.6	343.9	297.9	280.3	271.6	267.2	265.0
12.5°	1984.3	1587.9	917.7	523.4	343.9	282.5	258.4	247.5	240.9	234.3	232.2
15°	2085.0	1592.2	799.4	405.2	284.7	251.9	232.2	221.2	212.4	205.9	205.9
17.5°	2190.2	1598.8	683.3	328.5	258.4	230.0	208.1	192.7	186.2	179.6	177.4
20°	2288.7	1596.6	571.6	280.3	234.3	205.9	184.0	168.6	157.7	151.1	151.1
22.5°	2382.9	1583.5	466.5	251.9	214.6	181.8	157.7	142.4	133.6	127.0	127.0
25°	2483.6	1557.2	381.1	230.0	190.5	159.9	135.8	120.5	113.9	107.3	107.3
27.5°	2562.5	1513.4	311.0	210.3	168.6	138.0	116.1	102.9	96.4	92.0	92.0
30°	2647.9	1449.9	258.4	188.4	146.7	118.3	98.6	87.6	81.0	78.8	78.8
32.5°	2742.1	1379.8	221.2	166.5	124.8	100.7	83.2	76.7	70.1	67.9	67.9
35°	2851.6	1318.5	199.3	144.5	109.5	85.4	72.3	65.7	61.3	61.3	61.3
37.5°	2976.4	1255.0	179.6	127.0	94.2	72.3	61.3	59.1	56.9	54.8	54.8
40°	3112.2	1187.1	162.1	111.7	81.0	61.3	52.6	52.6	50.4	50.4	50.4
42.5°	3265.5	1127.9	146.7	98.6	70.1	52.6	46.0	46.0	43.8	43.8	43.8
45°	3432.0	1073.2	133.6	87.6	61.3	46.0	41.6	39.4	37.2	37.2	37.2
47.5°	3629.1	1042.5	122.6	76.7	52.6	39.4	35.0	32.9	30.7	28.5	28.5
50°	3880.9	1055.7	111.7	63.5	46.0	32.9	28.5	26.3	24.1	21.9	21.9
52.5°	4080.3	1049.1	96.4	54.8	37.2	26.3	21.9	19.7	17.5	15.3	15.3
55°	4224.8	1022.8	83.2	46.0	28.5	21.9	17.5	13.1	11.0	11.0	11.0
57.5°	4367.2	996.5	70.1	37.2	21.9	15.3	11.0	8.8	8.8	8.8	8.8
60°	4588.4	959.3	61.3	30.7	17.5	11.0	6.6	6.6	4.4	4.4	4.4
62.5°	4857.8	913.3	50.4	26.3	13.1	8.8	4.4	4.4	0.0	0.0	0.0
65°	5153.4	832.3	41.6	19.7	11.0	6.6	4.4	0.0	0.0	0.0	0.0
67.5°	5085.5	668.0	35.0	13.1	8.8	4.4	2.2	0.0	0.0	0.0	0.0
70°	4498.6	451.2	28.5	11.0	6.6	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	3524.0	267.2	19.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2255.9	133.6	13.1	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	755.6	65.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.3	21.9	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.1	8.8	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	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)