

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: P399273

Luminaire Tested: **ARCH-L-PA3-120-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399273
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-PA3-120-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 14325 lumens
Efficiency: N/A
Efficacy: 116.5 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

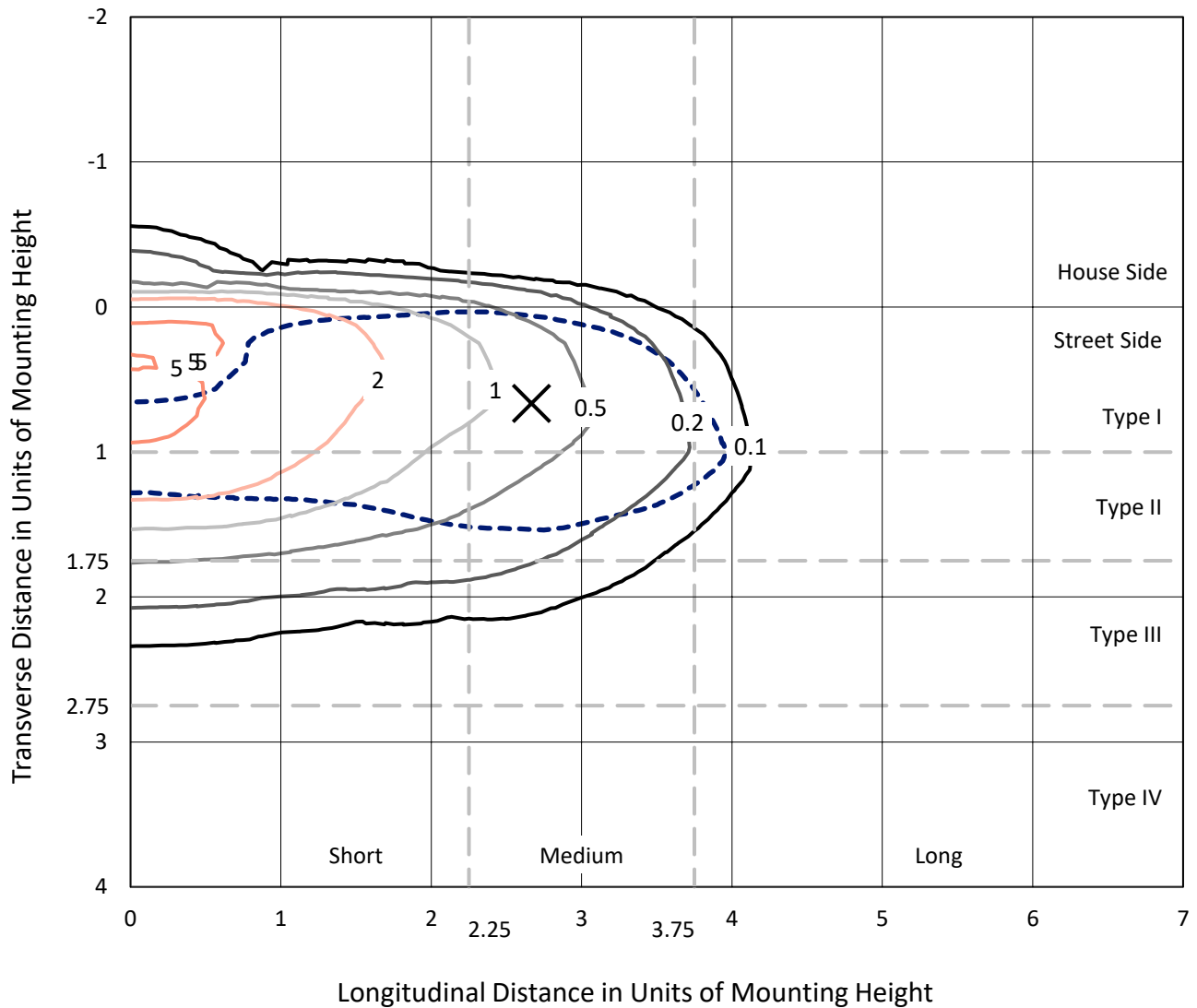
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

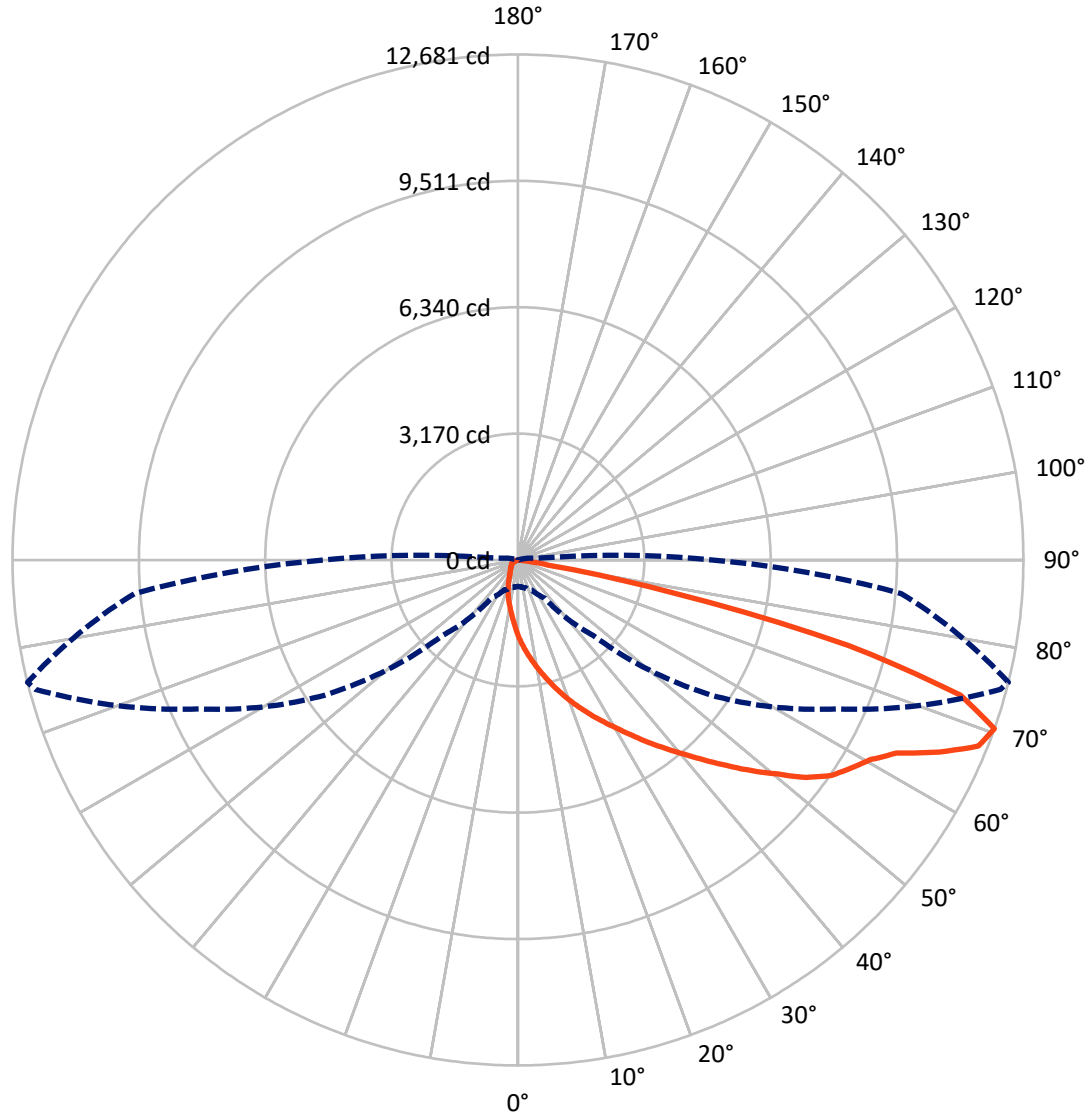
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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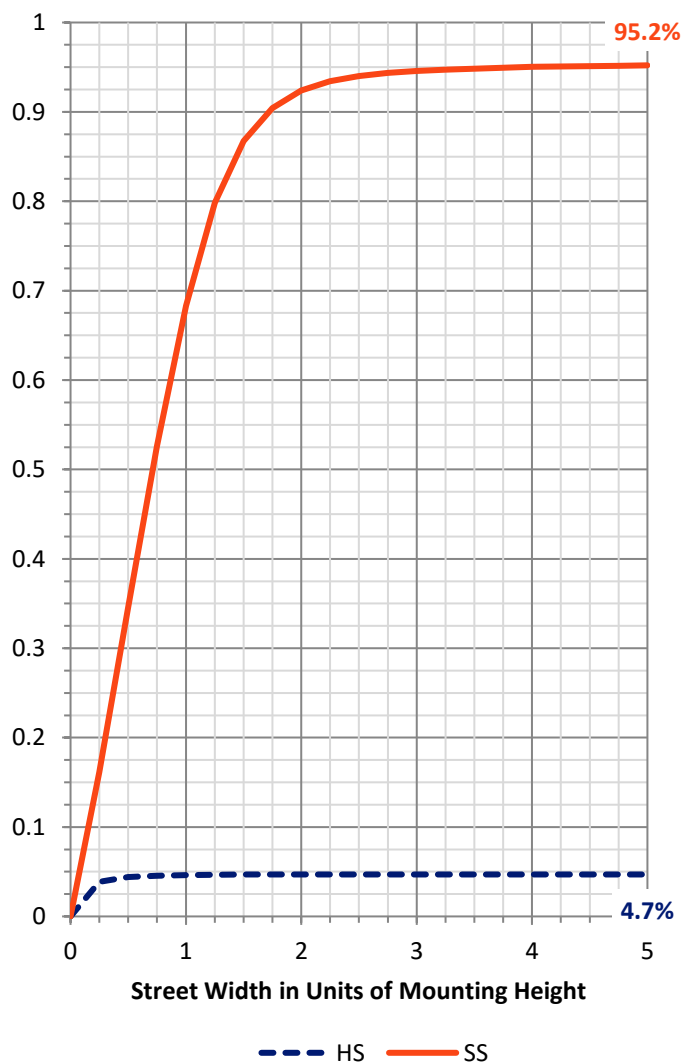
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	675.6	0.0	675.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13649.4	0.0	13649.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	14325.0	0.0	14325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.3
10°-20°	583.0	4.1
20°-30°	1085.8	7.6
30°-40°	1920.5	13.4
40°-50°	2936.9	20.5
50°-60°	3329.8	23.2
60°-70°	2854.5	19.9
70°-80°	1382.5	9.7
80°-90°	51.3	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°	14325.0	100.0
0°-180°	14325.0	100.0

Coefficient of Utilization



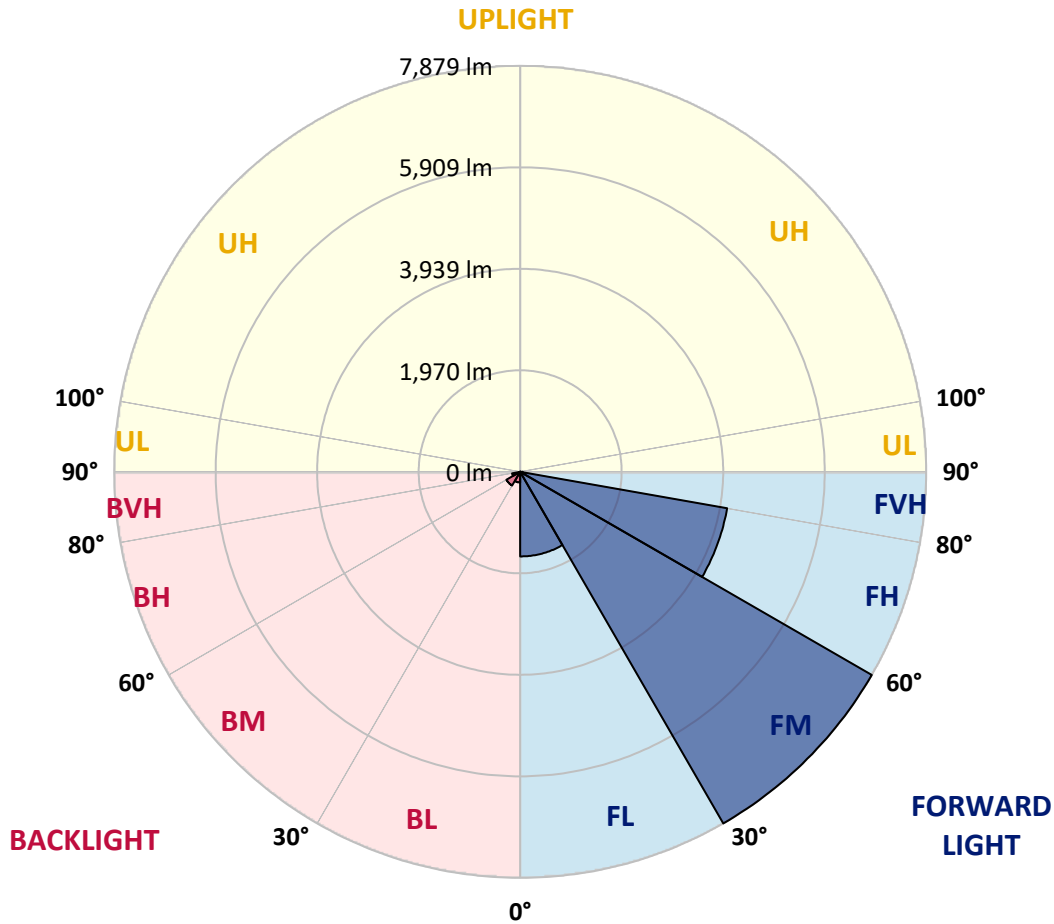
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.2	11.5			
FM (30°-60°)	7878.9	55.0			
FH (60°-80°)	4077.9	28.5			G2/5000
FVH (80°-90°)	50.4	0.4			G1/100
BL (0°-30°)	207.3	1.4	B1/500		
BM (30°-60°)	308.4	2.2	B1/1000		
BH (60°-80°)	159.1	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5
2.5°	2621.1	2606.7	2592.4	2537.6	2487.5	2442.2	2356.3	2244.2	2144.1	2122.6	2005.7
5°	3079.0	3062.3	3040.8	2985.9	2921.6	2845.2	2718.8	2547.1	2370.6	2332.5	2115.4
7.5°	3389.0	3374.7	3343.7	3317.5	3253.1	3179.1	3038.4	2838.1	2594.8	2547.1	2241.8
10°	3601.3	3591.7	3587.0	3565.5	3517.8	3458.2	3317.5	3107.6	2821.4	2766.5	2375.4
12.5°	3677.6	3677.6	3701.4	3737.2	3744.4	3725.3	3596.5	3386.6	3059.9	3002.6	2532.8
15°	3575.0	3587.0	3639.4	3753.9	3873.1	3951.8	3870.8	3675.2	3322.2	3260.2	2718.8
17.5°	3546.4	3558.3	3594.1	3694.3	3854.1	4063.9	4104.5	3954.2	3570.3	3517.8	2909.6
20°	3627.5	3639.4	3670.4	3756.3	3877.9	4090.2	4259.5	4223.7	3832.6	3777.7	3102.8
22.5°	3820.7	3827.8	3827.8	3894.6	4001.9	4159.3	4357.3	4478.9	4102.1	4042.5	3293.6
25°	4235.7	4221.3	4164.1	4130.7	4199.9	4328.7	4481.3	4703.1	4402.6	4321.5	3498.7
27.5°	4779.4	4827.1	4688.8	4529.0	4476.5	4550.5	4655.4	4901.1	4693.6	4607.7	3684.7
30°	5516.4	5497.3	5316.0	5087.1	4860.5	4834.3	4870.1	5070.4	4984.5	4903.4	3892.2
32.5°	6122.1	6157.9	5967.1	5688.1	5349.4	5189.6	5151.5	5273.1	5294.6	5242.1	4137.9
35°	6744.6	6782.8	6596.7	6286.7	5883.7	5616.5	5506.8	5523.5	5678.5	5611.8	4395.4
37.5°	7302.7	7336.1	7152.4	6835.2	6432.2	6105.5	5948.0	5819.3	6050.6	5991.0	4667.3
40°	7727.2	7732.0	7608.0	7324.2	6942.6	6603.9	6425.0	6172.2	6444.1	6403.6	4951.1
42.5°	8027.7	8037.3	7946.6	7703.4	7350.4	7035.6	6890.1	6589.6	6897.3	6861.5	5280.3
45°	8168.4	8185.1	8175.6	7951.4	7658.0	7386.2	7338.5	7033.2	7393.3	7359.9	5659.5
47.5°	8034.9	8034.9	8156.5	8125.5	7856.0	7674.7	7729.6	7495.9	7932.3	7901.3	6045.8
50°	7479.2	7486.3	7734.4	8089.7	7932.3	7891.8	8063.5	7949.0	8421.2	8440.3	6508.5
52.5°	6019.6	6007.7	6844.8	7526.9	7879.8	7989.6	8371.1	8411.7	9007.9	9065.2	6968.8
55°	4498.0	4490.8	5292.2	6530.0	7512.6	7939.5	8542.9	8824.3	9508.8	9544.5	7312.2
57.5°	3560.7	3541.6	3982.9	5263.6	6682.6	7715.3	8550.0	8903.0	9787.8	9849.8	7646.1
60°	2737.9	2721.2	3050.3	3916.1	5506.8	7119.1	8344.9	8907.8	10057.3	10167.0	8094.5
62.5°	1958.0	1977.1	2229.9	2809.5	4235.7	6277.2	8077.8	8974.5	10536.7	10660.7	8731.3
65°	1321.3	1311.7	1521.6	1912.7	3012.2	5144.3	7667.6	9115.2	11400.0	11617.1	9494.5
67.5°	918.2	925.4	1020.8	1244.9	1912.7	3949.5	6985.5	9194.0	12292.0	12461.3	10028.7
70°	663.0	672.6	725.0	837.1	1168.6	2678.3	5905.1	8833.8	12532.9	12680.7	9656.6
72.5°	436.4	455.5	534.2	593.9	746.5	1676.6	4350.1	7610.3	11495.4	11605.1	8101.6
75°	236.1	240.9	343.4	443.6	531.8	1044.6	2594.8	5132.4	8600.1	8564.3	5342.3
77.5°	183.6	190.8	212.3	317.2	357.7	574.8	1025.5	2318.2	4073.5	3963.8	1822.1
80°	112.1	116.9	147.9	188.4	250.4	333.9	300.5	629.6	827.6	775.1	267.1
82.5°	66.8	71.5	88.2	157.4	198.0	157.4	104.9	152.6	155.0	152.6	66.8
85°	11.9	11.9	62.0	109.7	104.9	45.3	62.0	50.1	45.3	47.7	14.3
87.5°	0.0	0.0	23.8	33.4	47.7	16.7	23.8	11.9	11.9	11.9	7.2
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°	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5
2.5°	1934.2	1853.1	1686.2	1540.7	1395.2	1287.9	1206.8	1123.3	1094.7	1058.9	1039.8
5°	1967.6	1807.8	1476.3	1211.6	987.4	815.7	705.9	639.2	596.2	565.2	558.1
7.5°	2017.7	1772.0	1306.9	949.2	703.6	531.8	441.2	395.9	372.1	357.7	353.0
10°	2077.3	1741.0	1140.0	739.3	496.1	374.4	324.4	305.3	295.7	291.0	288.6
12.5°	2160.8	1729.1	999.3	570.0	374.4	307.7	281.4	269.5	262.3	255.2	252.8
15°	2270.5	1733.9	870.5	441.2	310.0	274.3	252.8	240.9	231.3	224.2	224.2
17.5°	2384.9	1741.0	744.1	357.7	281.4	250.4	226.6	209.9	202.7	195.6	193.2
20°	2492.3	1738.6	622.5	305.3	255.2	224.2	200.3	183.6	171.7	164.6	164.6
22.5°	2594.8	1724.3	508.0	274.3	233.7	198.0	171.7	155.0	145.5	138.3	138.3
25°	2704.5	1695.7	415.0	250.4	207.5	174.1	147.9	131.2	124.0	116.9	116.9
27.5°	2790.4	1648.0	338.7	229.0	183.6	150.3	126.4	112.1	104.9	100.2	100.2
30°	2883.4	1578.8	281.4	205.1	159.8	128.8	107.3	95.4	88.2	85.9	85.9
32.5°	2985.9	1502.5	240.9	181.3	135.9	109.7	90.6	83.5	76.3	73.9	73.9
35°	3105.2	1435.7	217.0	157.4	119.2	93.0	78.7	71.5	66.8	66.8	66.8
37.5°	3241.1	1366.6	195.6	138.3	102.6	78.7	66.8	64.4	62.0	59.6	59.6
40°	3389.0	1292.6	176.5	121.6	88.2	66.8	57.2	57.2	54.9	54.9	54.9
42.5°	3555.9	1228.2	159.8	107.3	76.3	57.2	50.1	50.1	47.7	47.7	47.7
45°	3737.2	1168.6	145.5	95.4	66.8	50.1	45.3	42.9	40.5	40.5	40.5
47.5°	3951.8	1135.2	133.6	83.5	57.2	42.9	38.2	35.8	33.4	31.0	31.0
50°	4226.1	1149.5	121.6	69.2	50.1	35.8	31.0	28.6	26.2	23.8	23.8
52.5°	4443.1	1142.4	104.9	59.6	40.5	28.6	23.8	21.5	19.1	16.7	16.7
55°	4600.6	1113.8	90.6	50.1	31.0	23.8	19.1	14.3	11.9	11.9	11.9
57.5°	4755.6	1085.1	76.3	40.5	23.8	16.7	11.9	9.5	9.5	9.5	9.5
60°	4996.5	1044.6	66.8	33.4	19.1	11.9	7.2	7.2	4.8	4.8	4.8
62.5°	5289.8	994.5	54.9	28.6	14.3	9.5	4.8	4.8	0.0	0.0	0.0
65°	5611.8	906.3	45.3	21.5	11.9	7.2	4.8	0.0	0.0	0.0	0.0
67.5°	5537.8	727.4	38.2	14.3	9.5	4.8	2.4	0.0	0.0	0.0	0.0
70°	4898.7	491.3	31.0	11.9	7.2	4.8	2.4	0.0	0.0	0.0	0.0
72.5°	3837.4	291.0	21.5	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
75°	2456.5	145.5	14.3	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	822.8	71.5	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	116.9	23.8	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.2	9.5	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	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)