

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: P399426

Luminaire Tested: **ARCH-L-PA3-140-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399426
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-PA3-140-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 620mA 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: 17936 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

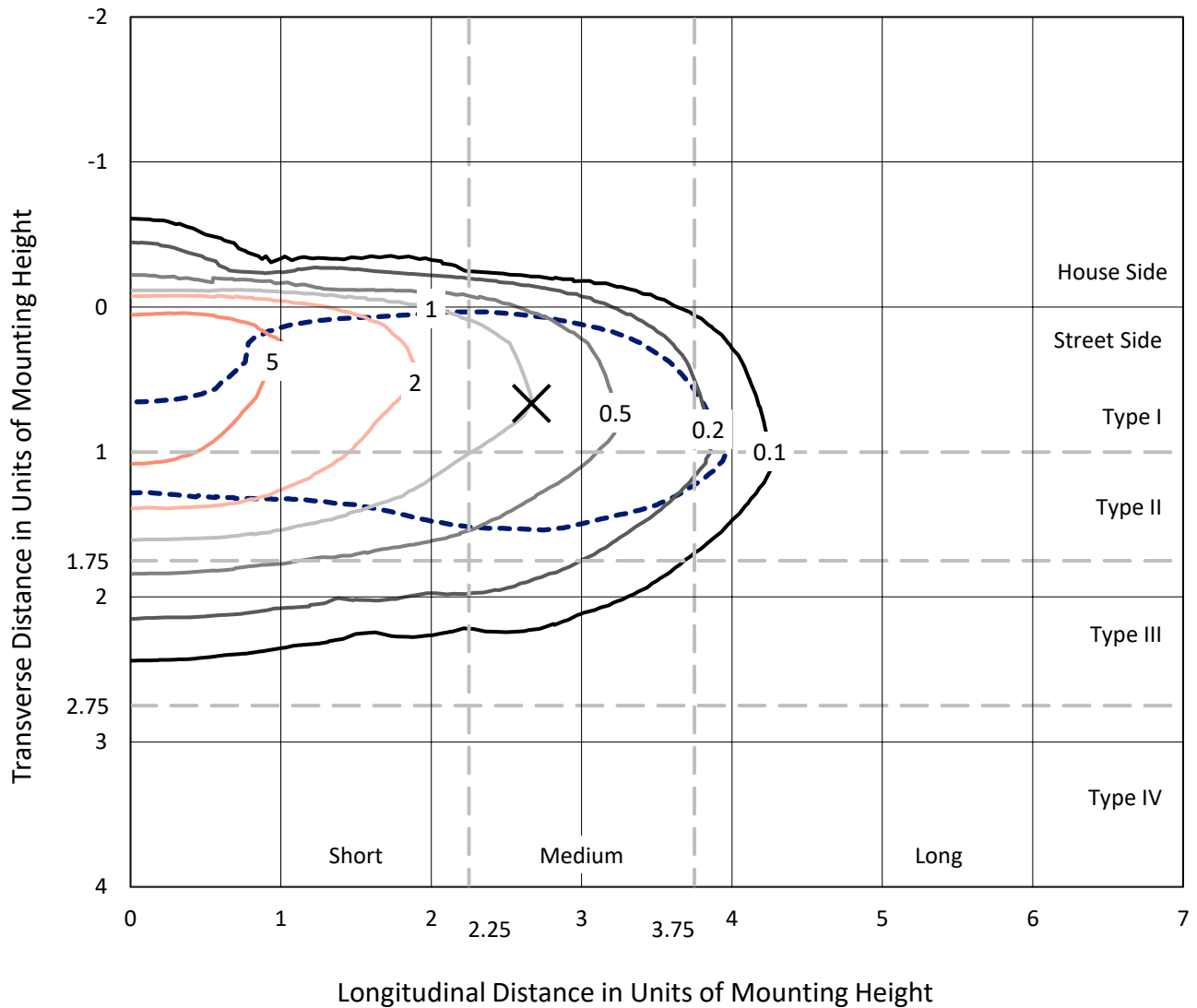
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

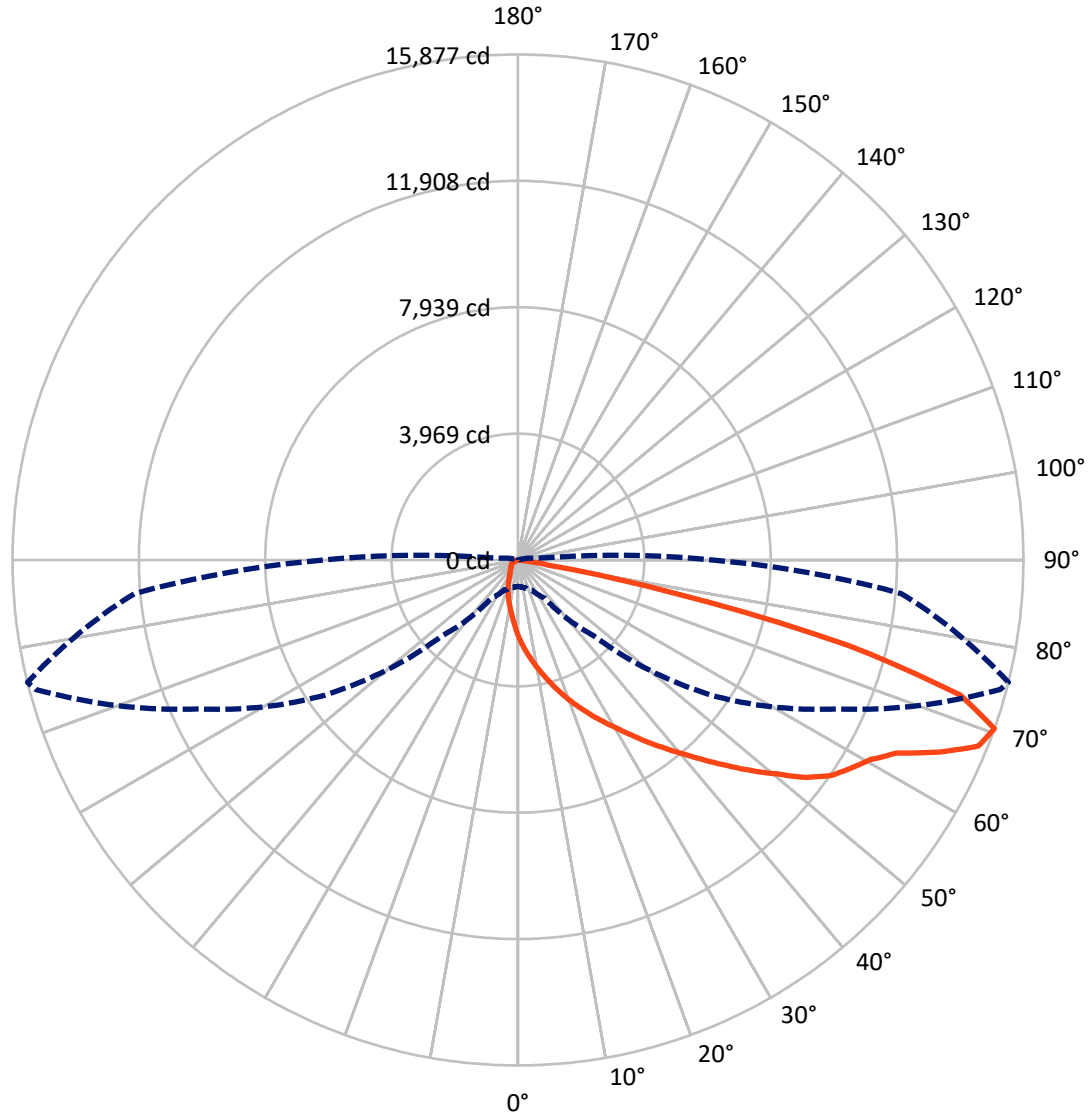
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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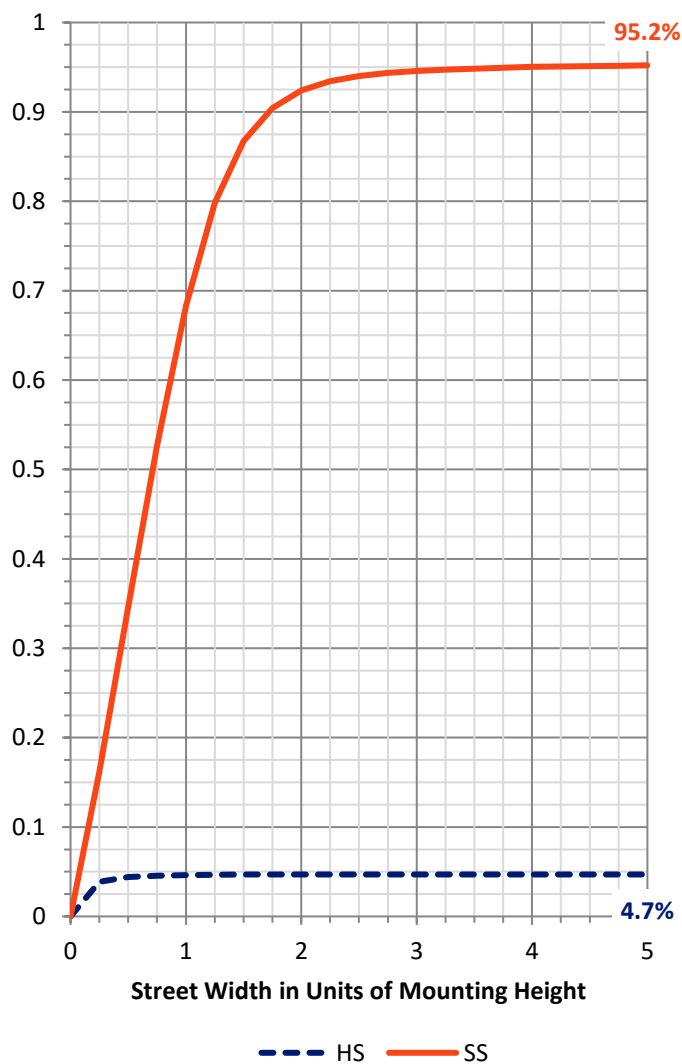
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.9	0.0	845.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17090.1	0.0	17090.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	17936.0	0.0	17936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.3
10°-20°	730.0	4.1
20°-30°	1359.5	7.6
30°-40°	2404.7	13.4
40°-50°	3677.3	20.5
50°-60°	4169.2	23.2
60°-70°	3574.0	19.9
70°-80°	1731.0	9.7
80°-90°	64.2	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°	17936.0	100.0
0°-180°	17936.0	100.0

Coefficient of Utilization



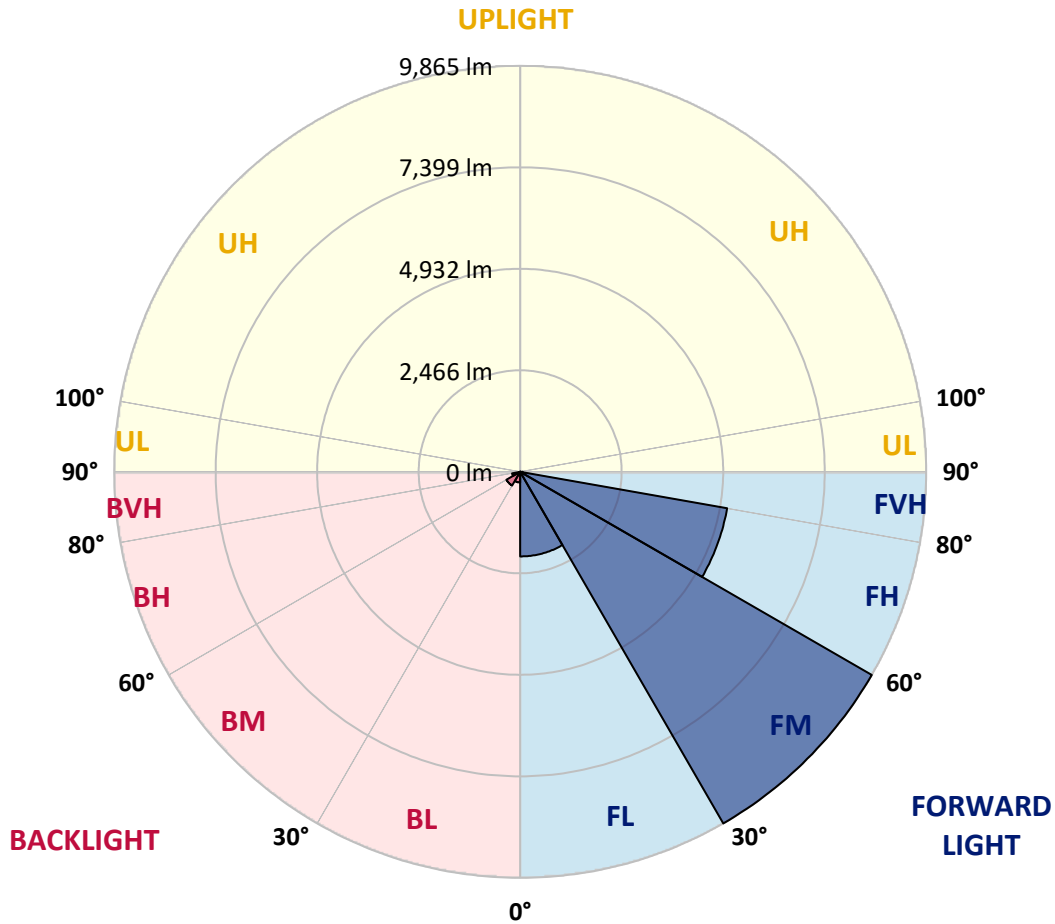
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.2	11.5			
FM (30°-60°)	9865.0	55.0			
FH (60°-80°)	5105.9	28.5			G3/7500
FVH (80°-90°)	63.1	0.4			G1/100
BL (0°-30°)	259.5	1.4	B1/500		
BM (30°-60°)	386.1	2.2	B1/1000		
BH (60°-80°)	199.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8
2.5°	3281.8	3263.8	3245.9	3177.2	3114.5	3057.8	2950.3	2809.9	2684.5	2657.7	2511.3
5°	3855.1	3834.2	3807.3	3738.6	3658.0	3562.5	3404.2	3189.2	2968.2	2920.4	2648.7
7.5°	4243.3	4225.4	4186.6	4153.7	4073.1	3980.5	3804.3	3553.5	3248.9	3189.2	2807.0
10°	4509.1	4497.1	4491.1	4464.3	4404.5	4329.9	4153.7	3890.9	3532.6	3463.9	2974.2
12.5°	4604.6	4604.6	4634.5	4679.3	4688.2	4664.3	4503.1	4240.3	3831.2	3759.5	3171.3
15°	4476.2	4491.1	4556.8	4700.2	4849.5	4948.0	4846.5	4601.6	4159.7	4082.0	3404.2
17.5°	4440.4	4455.3	4500.1	4625.5	4825.6	5088.4	5139.1	4951.0	4470.2	4404.5	3643.1
20°	4541.9	4556.8	4595.7	4703.2	4855.4	5121.2	5333.2	5288.4	4798.7	4730.0	3885.0
22.5°	4783.8	4792.7	4792.7	4876.4	5010.7	5207.8	5455.7	5608.0	5136.1	5061.5	4123.8
25°	5303.4	5285.5	5213.8	5172.0	5258.6	5419.8	5610.9	5888.6	5512.4	5410.9	4380.7
27.5°	5984.2	6043.9	5870.7	5670.7	5605.0	5697.5	5828.9	6136.5	5876.7	5769.2	4613.6
30°	6906.9	6883.0	6656.1	6369.4	6085.7	6052.9	6097.7	6348.5	6241.0	6139.5	4873.4
32.5°	7665.4	7710.2	7471.3	7121.9	6697.9	6497.8	6450.0	6602.3	6629.2	6563.5	5180.9
35°	8444.8	8492.6	8259.6	7871.4	7366.8	7032.3	6895.0	6915.9	7110.0	7026.4	5503.4
37.5°	9143.5	9185.3	8955.4	8558.2	8053.6	7644.5	7447.4	7286.2	7575.8	7501.2	5843.9
40°	9675.1	9681.0	9525.8	9170.4	8692.6	8268.6	8044.6	7728.1	8068.5	8017.8	6199.2
42.5°	10051.3	10063.3	9949.8	9645.2	9203.3	8809.1	8626.9	8250.7	8635.9	8591.1	6611.3
45°	10227.5	10248.4	10236.5	9955.8	9588.5	9248.0	9188.3	8806.1	9257.0	9215.2	7086.1
47.5°	10060.3	10060.3	10212.6	10173.7	9836.3	9609.4	9678.0	9385.4	9931.9	9893.0	7569.8
50°	9364.5	9373.5	9684.0	10129.0	9931.9	9881.1	10096.1	9952.8	10544.0	10567.9	8149.1
52.5°	7537.0	7522.1	8570.2	9424.2	9866.2	10003.5	10481.3	10532.1	11278.6	11350.3	8725.5
55°	5631.8	5622.9	6626.2	8176.0	9406.3	9940.8	10696.3	11048.7	11905.7	11950.5	9155.5
57.5°	4458.3	4434.4	4986.8	6590.4	8367.1	9660.1	10705.3	11147.2	12255.1	12332.7	9573.5
60°	3428.1	3407.2	3819.3	4903.2	6895.0	8913.6	10448.5	11153.2	12592.5	12729.9	10134.9
62.5°	2451.6	2475.5	2792.0	3517.7	5303.4	7859.5	10114.0	11236.8	13192.7	13348.0	10932.2
65°	1654.3	1642.4	1905.2	2394.9	3771.5	6441.1	9600.4	11413.0	14273.7	14545.4	11887.8
67.5°	1149.7	1158.6	1278.1	1558.8	2394.9	4945.0	8746.4	11511.5	15390.5	15602.5	12556.7
70°	830.1	842.1	907.8	1048.1	1463.2	3353.4	7393.7	11060.6	15692.1	15877.3	12090.8
72.5°	546.5	570.4	668.9	743.5	934.7	2099.2	5446.7	9528.7	14393.1	14530.5	10143.9
75°	295.6	301.6	430.0	555.4	665.9	1307.9	3248.9	6426.2	10768.0	10723.2	6688.9
77.5°	229.9	238.9	265.8	397.2	447.9	719.7	1284.0	2902.5	5100.3	4962.9	2281.4
80°	140.3	146.3	185.1	235.9	313.5	418.1	376.3	788.3	1036.2	970.5	334.4
82.5°	83.6	89.6	110.5	197.1	247.8	197.1	131.4	191.1	194.1	191.1	83.6
85°	14.9	14.9	77.6	137.4	131.4	56.7	77.6	62.7	56.7	59.7	17.9
87.5°	0.0	0.0	29.9	41.8	59.7	20.9	29.9	14.9	14.9	14.9	9.0
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°	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8
2.5°	2421.8	2320.2	2111.2	1929.0	1746.9	1612.5	1511.0	1406.5	1370.6	1325.8	1302.0
5°	2463.6	2263.5	1848.4	1517.0	1236.3	1021.3	883.9	800.3	746.5	707.7	698.8
7.5°	2526.3	2218.7	1636.4	1188.5	880.9	665.9	552.4	495.7	465.8	447.9	441.9
10°	2600.9	2179.9	1427.4	925.7	621.1	468.8	406.1	382.2	370.3	364.3	361.3
12.5°	2705.4	2164.9	1251.2	713.7	468.8	385.2	352.4	337.4	328.5	319.5	316.5
15°	2842.8	2170.9	1089.9	552.4	388.2	343.4	316.5	301.6	289.7	280.7	280.7
17.5°	2986.1	2179.9	931.7	447.9	352.4	313.5	283.7	262.8	253.8	244.9	241.9
20°	3120.5	2176.9	779.4	382.2	319.5	280.7	250.8	229.9	215.0	206.0	206.0
22.5°	3248.9	2159.0	636.0	343.4	292.6	247.8	215.0	194.1	182.2	173.2	173.2
25°	3386.3	2123.1	519.6	313.5	259.8	218.0	185.1	164.2	155.3	146.3	146.3
27.5°	3493.8	2063.4	424.0	286.7	229.9	188.1	158.3	140.3	131.4	125.4	125.4
30°	3610.2	1976.8	352.4	256.8	200.1	161.3	134.4	119.4	110.5	107.5	107.5
32.5°	3738.6	1881.3	301.6	226.9	170.2	137.4	113.5	104.5	95.6	92.6	92.6
35°	3887.9	1797.7	271.7	197.1	149.3	116.5	98.5	89.6	83.6	83.6	83.6
37.5°	4058.2	1711.1	244.9	173.2	128.4	98.5	83.6	80.6	77.6	74.7	74.7
40°	4243.3	1618.5	221.0	152.3	110.5	83.6	71.7	71.7	68.7	68.7	68.7
42.5°	4452.3	1537.9	200.1	134.4	95.6	71.7	62.7	62.7	59.7	59.7	59.7
45°	4679.3	1463.2	182.2	119.4	83.6	62.7	56.7	53.8	50.8	50.8	50.8
47.5°	4948.0	1421.4	167.2	104.5	71.7	53.8	47.8	44.8	41.8	38.8	38.8
50°	5291.4	1439.3	152.3	86.6	62.7	44.8	38.8	35.8	32.8	29.9	29.9
52.5°	5563.2	1430.4	131.4	74.7	50.8	35.8	29.9	26.9	23.9	20.9	20.9
55°	5760.2	1394.5	113.5	62.7	38.8	29.9	23.9	17.9	14.9	14.9	14.9
57.5°	5954.3	1358.7	95.6	50.8	29.9	20.9	14.9	11.9	11.9	11.9	11.9
60°	6255.9	1307.9	83.6	41.8	23.9	14.9	9.0	9.0	6.0	6.0	6.0
62.5°	6623.2	1245.2	68.7	35.8	17.9	11.9	6.0	6.0	0.0	0.0	0.0
65°	7026.4	1134.7	56.7	26.9	14.9	9.0	6.0	0.0	0.0	0.0	0.0
67.5°	6933.8	910.8	47.8	17.9	11.9	6.0	3.0	0.0	0.0	0.0	0.0
70°	6133.5	615.1	38.8	14.9	9.0	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	4804.7	364.3	26.9	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	3075.7	182.2	17.9	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1030.2	89.6	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	146.3	29.9	6.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	11.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	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)