

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: P400470

Luminaire Tested: **ARCH-L-PA3-280-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400470
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-PA3-280-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA 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: 22714 lumens
Efficiency: N/A
Efficacy: 81.4 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

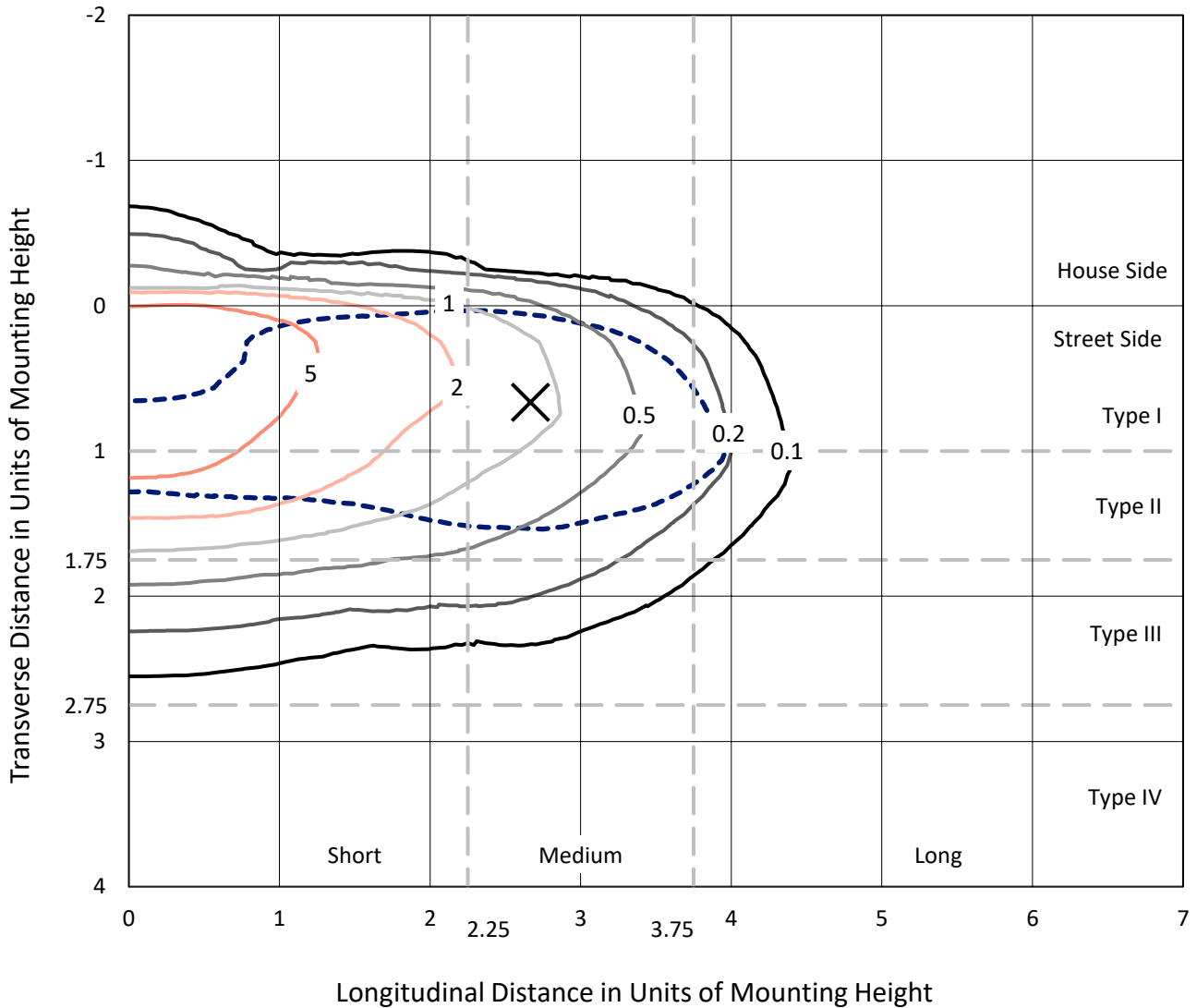
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

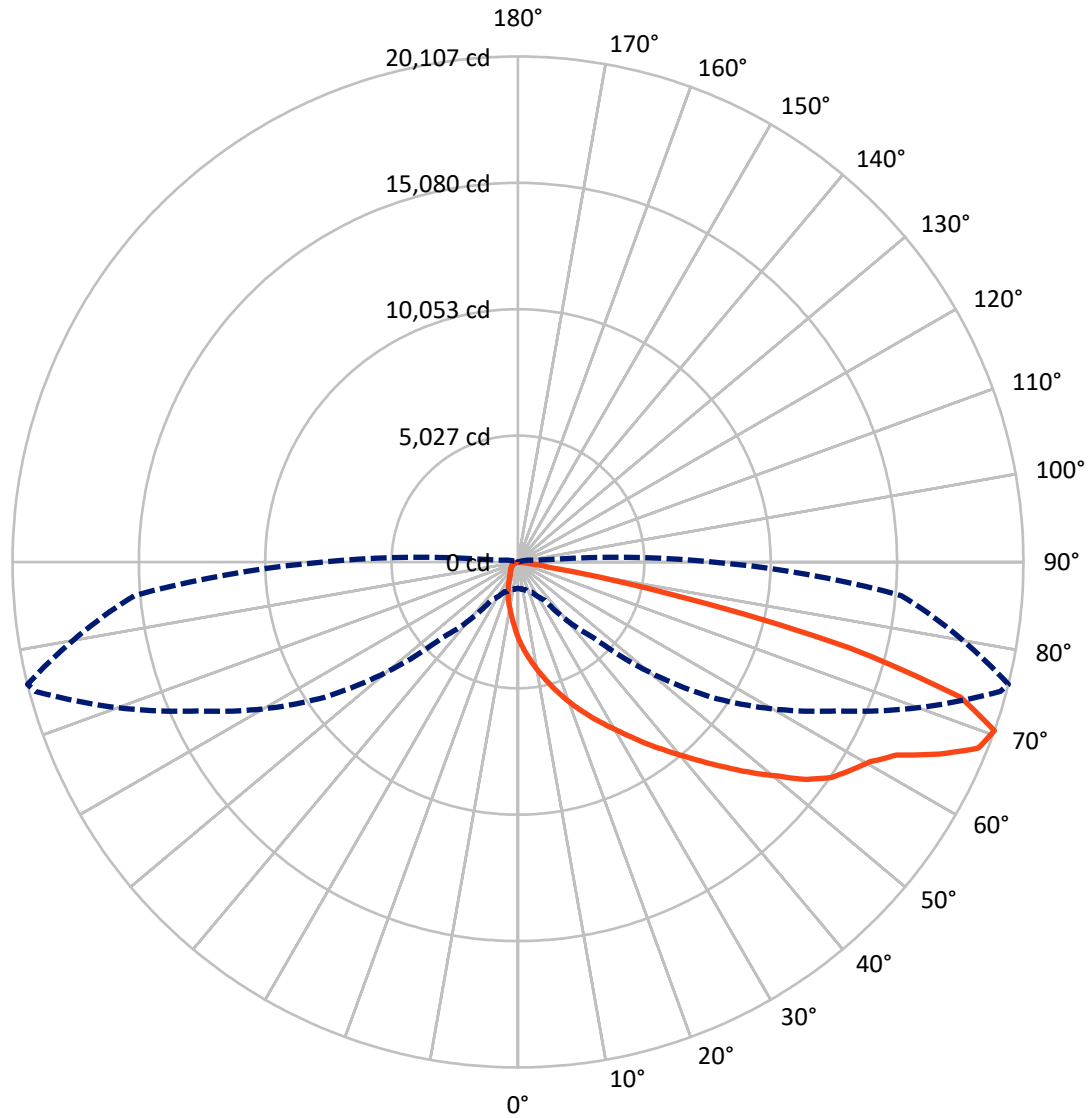
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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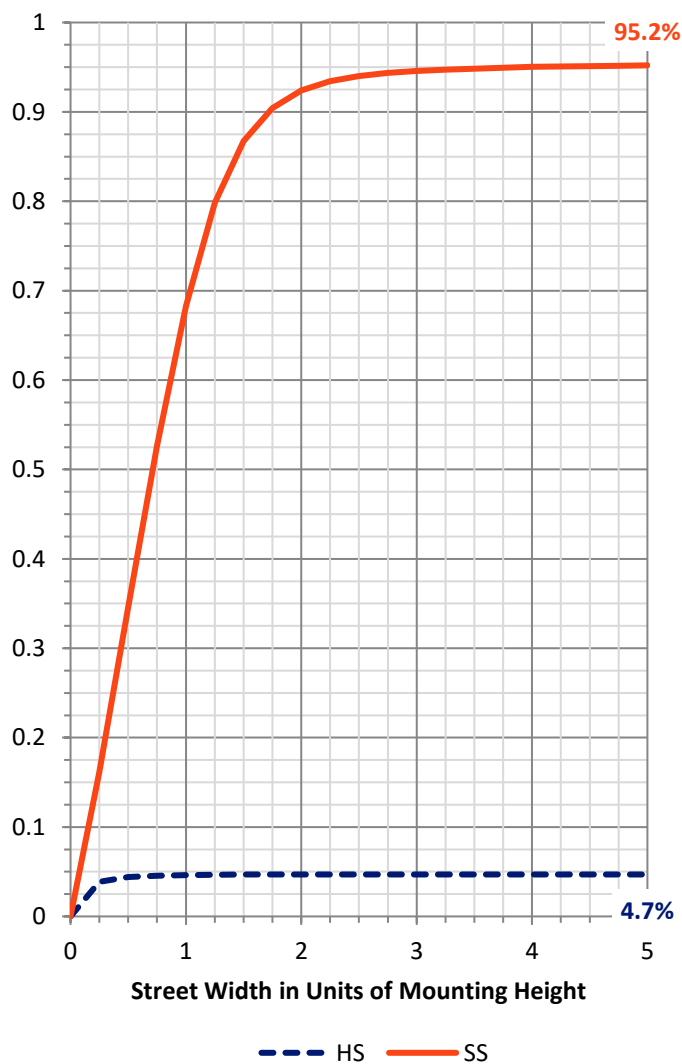
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.3	0.0	1071.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21642.7	0.0	21642.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	22714.0	0.0	22714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	1.3
10°-20°	924.4	4.1
20°-30°	1721.7	7.6
30°-40°	3045.2	13.4
40°-50°	4656.9	20.5
50°-60°	5279.8	23.2
60°-70°	4526.1	19.9
70°-80°	2192.2	9.7
80°-90°	81.3	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°	22714.0	100.0
0°-180°	22714.0	100.0

Coefficient of Utilization

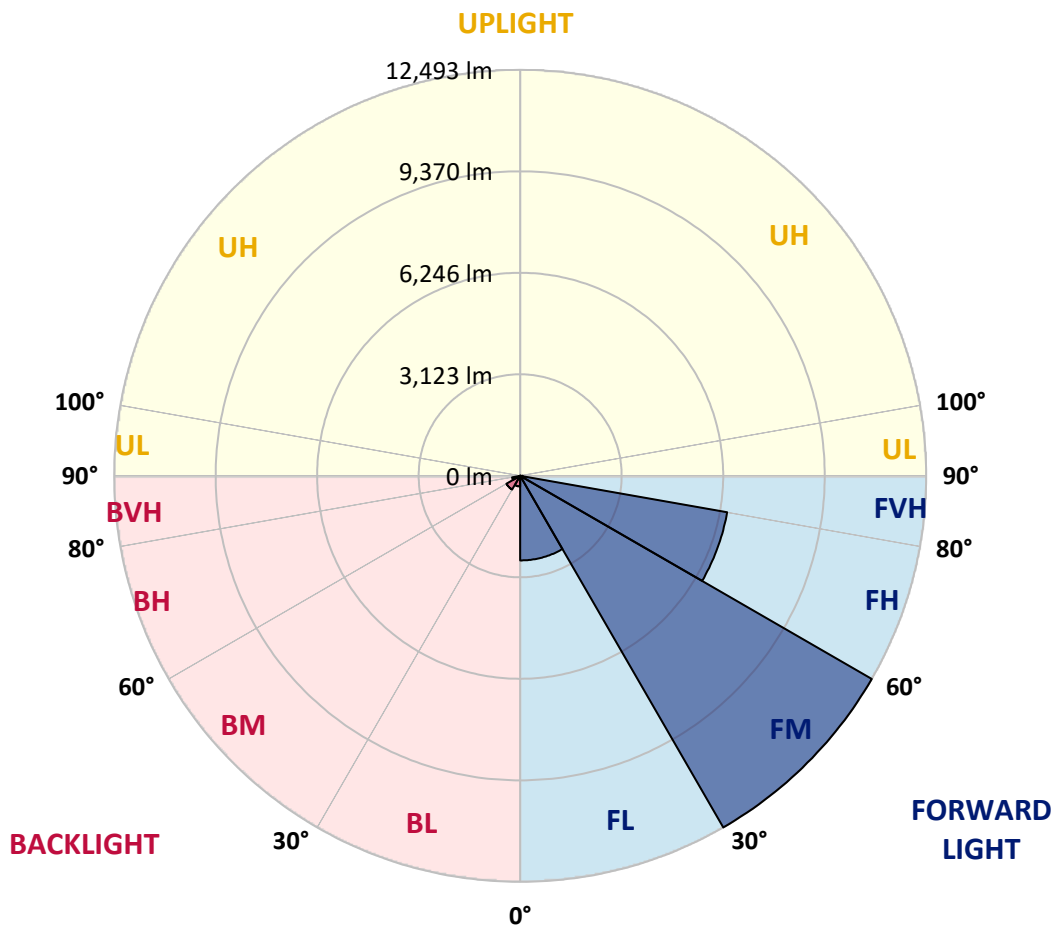


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2603.9	11.5			
FM (30°-60°)	12492.9	55.0			
FH (60°-80°)	6466.0	28.5			G3/7500
FVH (80°-90°)	79.9	0.4			G1/100
BL (0°-30°)	328.6	1.4	B1/500		
BM (30°-60°)	489.0	2.2	B1/1000		
BH (60°-80°)	252.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4
2.5°	4156.0	4133.3	4110.6	4023.6	3944.2	3872.4	3736.2	3558.5	3399.7	3365.6	3180.3
5°	4882.1	4855.6	4821.6	4734.6	4632.5	4511.5	4311.0	4038.8	3758.9	3698.4	3354.3
7.5°	5373.7	5351.0	5301.8	5260.2	5158.1	5040.9	4817.8	4500.1	4114.4	4038.8	3554.7
10°	5710.2	5695.1	5687.5	5653.5	5577.9	5483.3	5260.2	4927.4	4473.6	4386.7	3766.5
12.5°	5831.2	5831.2	5869.1	5925.8	5937.1	5906.9	5702.7	5369.9	4851.8	4761.0	4016.1
15°	5668.6	5687.5	5770.7	5952.3	6141.3	6266.1	6137.6	5827.5	5267.8	5169.5	4311.0
17.5°	5623.3	5642.2	5698.9	5857.7	6111.1	6443.9	6508.2	6269.9	5661.1	5577.9	4613.6
20°	5751.8	5770.7	5819.9	5956.0	6148.9	6485.5	6754.0	6697.2	6077.0	5990.1	4919.9
22.5°	6058.1	6069.5	6069.5	6175.4	6345.5	6595.1	6909.0	7101.9	6504.4	6409.8	5222.4
25°	6716.1	6693.5	6602.7	6549.7	6659.4	6863.6	7105.6	7457.3	6980.9	6852.3	5547.6
27.5°	7578.3	7654.0	7434.6	7181.3	7098.1	7215.3	7381.7	7771.2	7442.2	7306.1	5842.6
30°	8746.9	8716.6	8429.2	8066.2	7706.9	7665.3	7722.0	8039.7	7903.6	7775.0	6171.6
32.5°	9707.4	9764.1	9461.6	9019.1	8482.2	8228.8	8168.3	8361.1	8395.2	8312.0	6561.1
35°	10694.4	10754.9	10459.9	9968.3	9329.2	8905.7	8731.7	8758.2	9004.0	8898.1	6969.5
37.5°	11579.3	11632.2	11341.0	10838.1	10199.0	9680.9	9431.3	9227.1	9593.9	9499.4	7400.6
40°	12252.4	12260.0	12063.3	11613.3	11008.3	10471.3	10187.7	9786.8	10217.9	10153.6	7850.6
42.5°	12728.9	12744.0	12600.3	12214.6	11654.9	11155.8	10925.1	10448.6	10936.4	10879.7	8372.5
45°	12952.0	12978.5	12963.4	12607.9	12142.8	11711.6	11636.0	11152.0	11723.0	11670.0	8973.8
47.5°	12740.2	12740.2	12933.1	12883.9	12456.6	12169.2	12256.2	11885.6	12577.6	12528.5	9586.4
50°	11859.1	11870.5	12263.8	12827.2	12577.6	12513.3	12785.6	12604.1	13352.9	13383.1	10320.0
52.5°	9544.8	9525.9	10853.2	11934.8	12494.4	12668.4	13273.5	13337.7	14283.1	14373.9	11049.9
55°	7132.1	7120.8	8391.4	10354.0	11912.1	12589.0	13545.7	13992.0	15077.3	15134.0	11594.4
57.5°	5645.9	5615.7	6315.3	8346.0	10596.1	12233.5	13557.1	14116.8	15519.7	15618.1	12123.8
60°	4341.3	4314.8	4836.7	6209.4	8731.7	11288.1	13231.9	14124.3	15947.1	16121.0	12834.8
62.5°	3104.7	3135.0	3535.8	4454.7	6716.1	9953.2	12808.3	14230.2	16707.2	16903.8	13844.5
65°	2095.0	2079.9	2412.7	3032.9	4776.2	8156.9	12157.9	14453.3	18076.1	18420.2	15054.6
67.5°	1455.9	1467.3	1618.5	1974.0	3032.9	6262.3	11076.3	14578.1	19490.4	19758.9	15901.7
70°	1051.3	1066.4	1149.6	1327.3	1853.0	4246.7	9363.3	14007.1	19872.4	20106.8	15311.7
72.5°	692.0	722.3	847.1	941.6	1183.6	2658.5	6897.7	12067.1	18227.4	18401.3	12846.1
75°	374.4	381.9	544.6	703.4	843.3	1656.3	4114.4	8138.0	13636.5	13579.8	8470.8
77.5°	291.2	302.5	336.6	503.0	567.2	911.4	1626.1	3675.7	6459.0	6285.0	2889.2
80°	177.7	185.3	234.5	298.7	397.1	529.4	476.5	998.3	1312.2	1229.0	423.5
82.5°	105.9	113.4	139.9	249.6	313.9	249.6	166.4	242.0	245.8	242.0	105.9
85°	18.9	18.9	98.3	174.0	166.4	71.9	98.3	79.4	71.9	75.6	22.7
87.5°	0.0	0.0	37.8	52.9	75.6	26.5	37.8	18.9	18.9	18.9	11.3
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°	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4	3040.4
2.5°	3066.9	2938.3	2673.6	2442.9	2212.2	2042.1	1913.5	1781.1	1735.8	1679.0	1648.8
5°	3119.8	2866.5	2340.8	1921.1	1565.6	1293.3	1119.4	1013.5	945.4	896.2	884.9
7.5°	3199.2	2809.7	2072.3	1505.1	1115.6	843.3	699.6	627.7	589.9	567.2	559.7
10°	3293.8	2760.6	1807.6	1172.3	786.6	593.7	514.3	484.0	468.9	461.4	457.6
12.5°	3426.1	2741.7	1584.5	903.8	593.7	487.8	446.2	427.3	416.0	404.6	400.9
15°	3600.1	2749.2	1380.3	699.6	491.6	434.9	400.9	381.9	366.8	355.5	355.5
17.5°	3781.6	2760.6	1179.9	567.2	446.2	397.1	359.3	332.8	321.4	310.1	306.3
20°	3951.8	2756.8	987.0	484.0	404.6	355.5	317.7	291.2	272.3	260.9	260.9
22.5°	4114.4	2734.1	805.5	434.9	370.6	313.9	272.3	245.8	230.7	219.3	219.3
25°	4288.3	2688.7	658.0	397.1	329.0	276.1	234.5	208.0	196.6	185.3	185.3
27.5°	4424.5	2613.1	537.0	363.0	291.2	238.2	200.4	177.7	166.4	158.8	158.8
30°	4572.0	2503.4	446.2	325.2	253.4	204.2	170.2	151.3	139.9	136.1	136.1
32.5°	4734.6	2382.4	381.9	287.4	215.6	174.0	143.7	132.4	121.0	117.2	117.2
35°	4923.7	2276.5	344.1	249.6	189.1	147.5	124.8	113.4	105.9	105.9	105.9
37.5°	5139.2	2166.9	310.1	219.3	162.6	124.8	105.9	102.1	98.3	94.5	94.5
40°	5373.7	2049.6	279.8	192.9	139.9	105.9	90.8	90.8	87.0	87.0	87.0
42.5°	5638.4	1947.5	253.4	170.2	121.0	90.8	79.4	79.4	75.6	75.6	75.6
45°	5925.8	1853.0	230.7	151.3	105.9	79.4	71.9	68.1	64.3	64.3	64.3
47.5°	6266.1	1800.0	211.8	132.4	90.8	68.1	60.5	56.7	52.9	49.2	49.2
50°	6701.0	1822.7	192.9	109.7	79.4	56.7	49.2	45.4	41.6	37.8	37.8
52.5°	7045.1	1811.4	166.4	94.5	64.3	45.4	37.8	34.0	30.3	26.5	26.5
55°	7294.7	1766.0	143.7	79.4	49.2	37.8	30.3	22.7	18.9	18.9	18.9
57.5°	7540.5	1720.6	121.0	64.3	37.8	26.5	18.9	15.1	15.1	15.1	15.1
60°	7922.5	1656.3	105.9	52.9	30.3	18.9	11.3	11.3	7.6	7.6	7.6
62.5°	8387.6	1576.9	87.0	45.4	22.7	15.1	7.6	7.6	0.0	0.0	0.0
65°	8898.1	1437.0	71.9	34.0	18.9	11.3	7.6	0.0	0.0	0.0	0.0
67.5°	8780.9	1153.4	60.5	22.7	15.1	7.6	3.8	0.0	0.0	0.0	0.0
70°	7767.4	779.0	49.2	18.9	11.3	7.6	3.8	0.0	0.0	0.0	0.0
72.5°	6084.6	461.4	34.0	15.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0
75°	3895.1	230.7	22.7	11.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	1304.7	113.4	15.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	185.3	37.8	7.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.6	15.1	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	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)