

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: P400425

Luminaire Tested: **ARCH-L-PA3-280-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400425
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-PA3-280-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 26031 lumens
Efficiency: N/A
Efficacy: 93.3 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

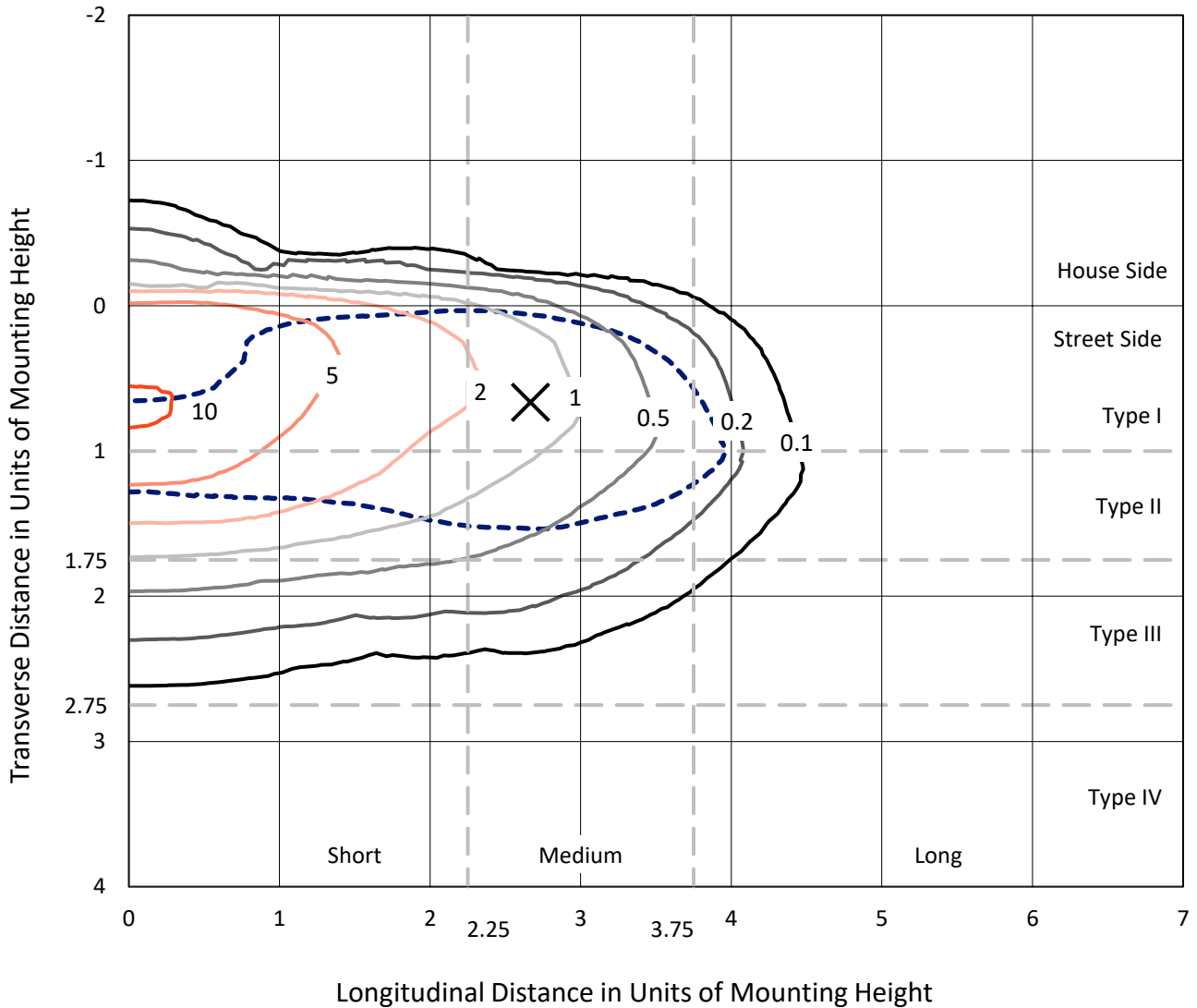
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

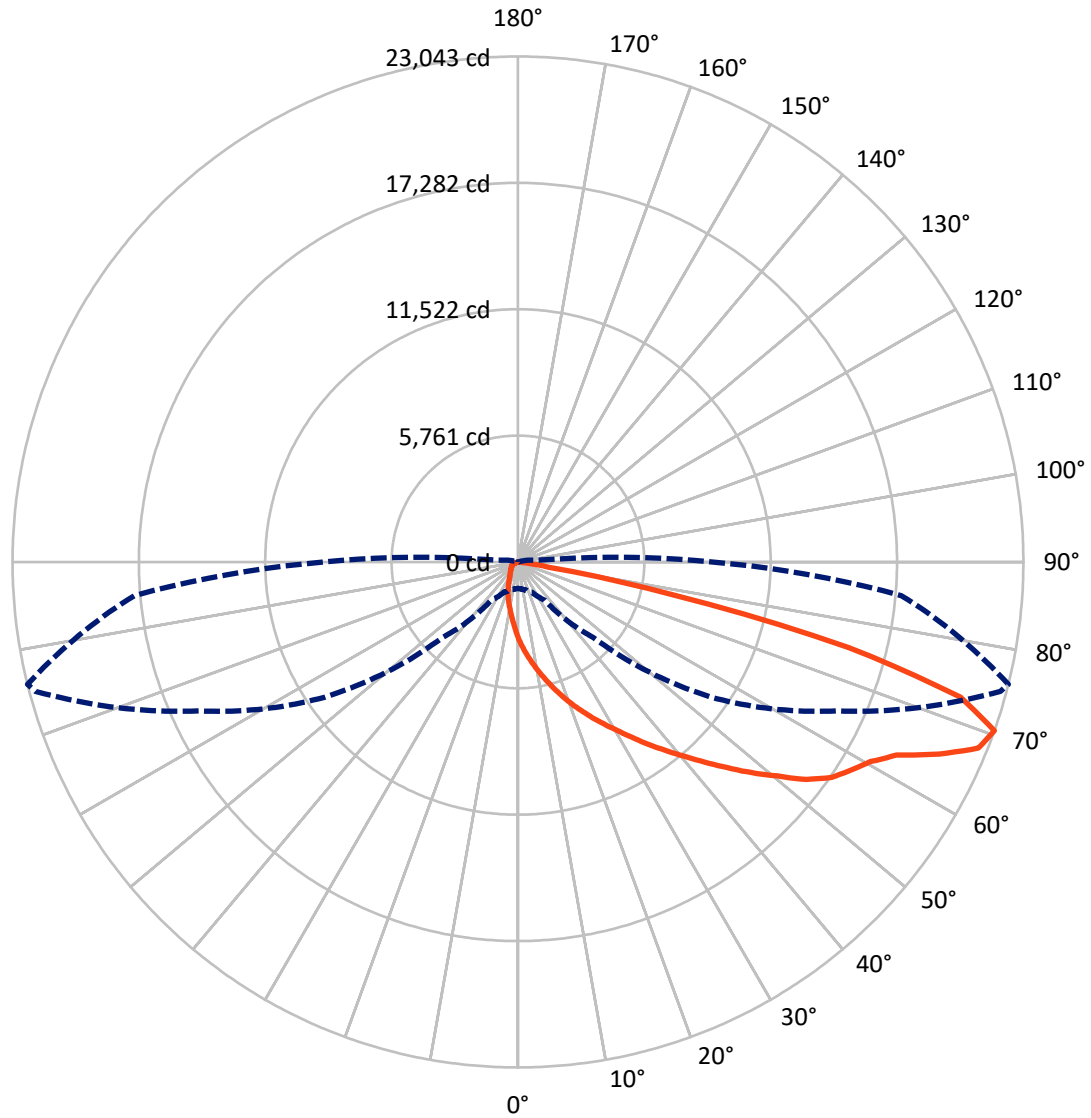
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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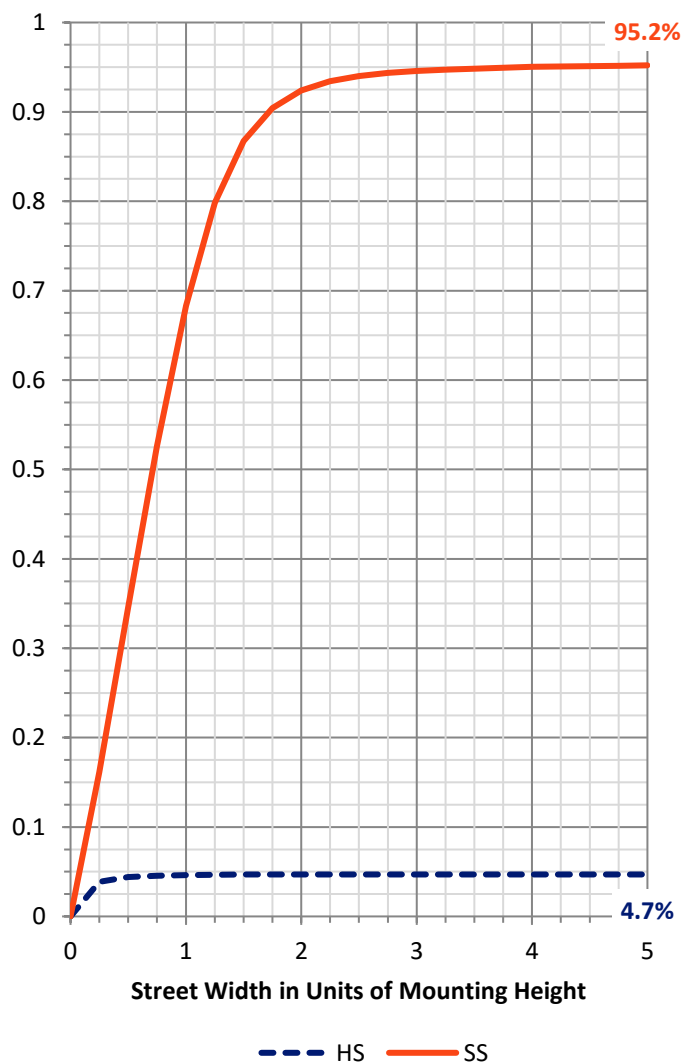
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1227.7	0.0	1227.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24803.3	0.0	24803.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	26031.0	0.0	26031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	1.3
10°-20°	1059.4	4.1
20°-30°	1973.1	7.6
30°-40°	3489.9	13.4
40°-50°	5336.9	20.5
50°-60°	6050.8	23.2
60°-70°	5187.0	19.9
70°-80°	2512.3	9.7
80°-90°	93.2	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°	26031.0	100.0
0°-180°	26031.0	100.0

Coefficient of Utilization

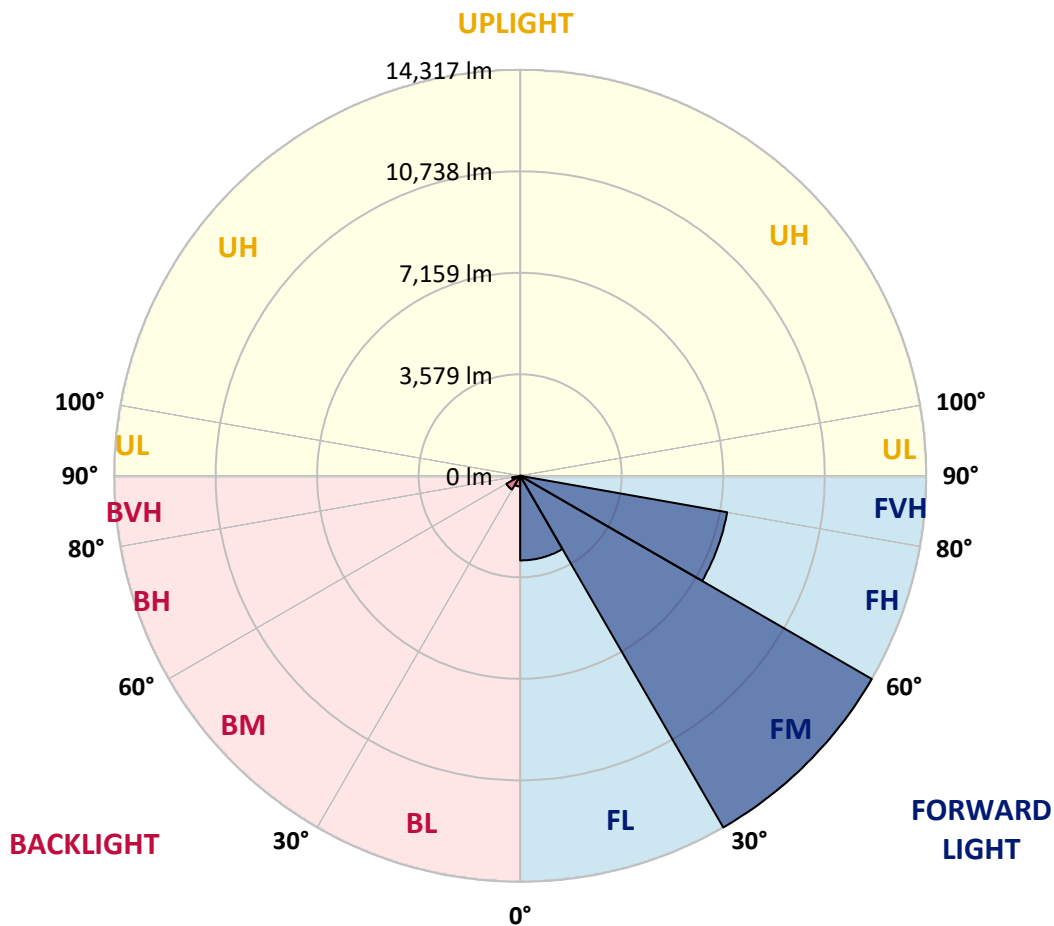


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2984.2	11.5			
FM (30°-60°)	14317.3	55.0			
FH (60°-80°)	7410.3	28.5			G3/7500
FVH (80°-90°)	91.6	0.4			G1/100
BL (0°-30°)	376.6	1.4	B1/500		
BM (30°-60°)	560.4	2.2	B1/1000		
BH (60°-80°)	289.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
2.5°	4762.9	4736.9	4710.9	4611.2	4520.2	4437.9	4281.8	4078.2	3896.1	3857.1	3644.8
5°	5595.0	5564.7	5525.7	5426.0	5309.0	5170.3	4940.6	4628.6	4307.8	4238.5	3844.1
7.5°	6158.4	6132.4	6076.1	6028.4	5911.4	5777.0	5521.3	5157.3	4715.2	4628.6	4073.8
10°	6544.1	6526.8	6518.1	6479.1	6392.4	6284.1	6028.4	5647.0	5126.9	5027.3	4316.5
12.5°	6682.8	6682.8	6726.1	6791.1	6804.1	6769.5	6535.4	6154.1	5560.3	5456.3	4602.6
15°	6496.4	6518.1	6613.5	6821.5	7038.2	7181.2	7033.8	6678.5	6037.1	5924.4	4940.6
17.5°	6444.4	6466.1	6531.1	6713.1	7003.5	7384.9	7458.6	7185.5	6487.8	6392.4	5287.3
20°	6591.8	6613.5	6669.8	6825.8	7046.8	7432.6	7740.3	7675.3	6964.5	6864.8	5638.3
22.5°	6942.8	6955.8	6955.8	7077.2	7272.2	7558.2	7917.9	8139.0	7454.2	7345.9	5985.0
25°	7696.9	7670.9	7566.9	7506.2	7631.9	7865.9	8143.3	8546.4	8000.3	7852.9	6357.8
27.5°	8685.0	8771.7	8520.4	8230.0	8134.6	8269.0	8459.7	8906.1	8529.0	8373.0	6695.8
30°	10024.2	9989.5	9660.2	9244.1	8832.4	8784.7	8849.7	9213.8	9057.7	8910.4	7072.8
32.5°	11125.0	11190.0	10843.3	10336.2	9720.8	9430.5	9361.1	9582.1	9621.2	9525.8	7519.2
35°	12256.1	12325.5	11987.4	11424.0	10691.6	10206.2	10006.9	10037.2	10318.9	10197.6	7987.3
37.5°	13270.3	13330.9	12997.2	12420.8	11688.4	11094.7	10808.6	10574.6	10995.0	10886.6	8481.3
40°	14041.7	14050.3	13825.0	13309.3	12615.8	12000.4	11675.4	11216.0	11710.1	11636.4	8997.1
42.5°	14587.7	14605.1	14440.4	13998.3	13356.9	12784.9	12520.5	11974.4	12533.5	12468.5	9595.1
45°	14843.4	14873.8	14856.4	14449.1	13916.0	13421.9	13335.3	12780.5	13434.9	13374.3	10284.2
47.5°	14600.7	14600.7	14821.8	14765.4	14275.7	13946.3	14046.0	13621.3	14414.4	14358.0	10986.3
50°	13591.0	13604.0	14054.7	14700.4	14414.4	14340.7	14652.8	14444.7	15302.8	15337.5	11827.1
52.5°	10938.6	10917.0	12438.2	13677.6	14319.0	14518.4	15211.8	15285.5	16369.0	16473.0	12663.5
55°	8173.6	8160.6	9616.8	11866.1	13651.6	14427.4	15523.9	16035.3	17279.1	17344.1	13287.6
57.5°	6470.4	6435.8	7237.5	9564.8	12143.5	14020.0	15536.9	16178.3	17786.1	17898.8	13894.3
60°	4975.3	4944.9	5543.0	7116.2	10006.9	12936.5	15164.1	16186.9	18275.9	18475.2	14709.1
62.5°	3558.1	3592.8	4052.2	5105.3	7696.9	11406.7	14678.8	16308.3	19147.0	19372.3	15866.2
65°	2401.0	2383.6	2765.0	3475.7	5473.7	9348.1	13933.3	16564.0	20715.8	21110.2	17253.1
67.5°	1668.5	1681.5	1854.9	2262.3	3475.7	7176.9	12693.9	16707.0	22336.7	22644.4	18223.8
70°	1204.8	1222.1	1317.5	1521.2	2123.6	4866.9	10730.6	16052.6	22774.4	23043.1	17547.8
72.5°	793.1	827.8	970.8	1079.1	1356.5	3046.7	7904.9	13829.3	20889.2	21088.5	14722.1
75°	429.1	437.7	624.1	806.1	966.4	1898.2	4715.2	9326.4	15627.9	15562.9	9707.8
77.5°	333.7	346.7	385.7	576.4	650.1	1044.5	1863.6	4212.5	7402.2	7202.9	3311.1
80°	203.7	212.4	268.7	342.4	455.1	606.7	546.1	1144.1	1503.8	1408.5	485.4
82.5°	121.3	130.0	160.4	286.0	359.7	286.0	190.7	277.4	281.7	277.4	121.3
85°	21.7	21.7	112.7	199.4	190.7	82.3	112.7	91.0	82.3	86.7	26.0
87.5°	0.0	0.0	43.3	60.7	86.7	30.3	43.3	21.7	21.7	21.7	13.0
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°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
2.5°	3514.8	3367.4	3064.0	2799.7	2535.3	2340.3	2192.9	2041.2	1989.2	1924.2	1889.6
5°	3575.4	3285.1	2682.7	2201.6	1794.2	1482.2	1282.8	1161.5	1083.5	1027.1	1014.1
7.5°	3666.4	3220.1	2375.0	1724.9	1278.5	966.4	801.8	719.4	676.1	650.1	641.4
10°	3774.8	3163.7	2071.6	1343.5	901.4	680.4	589.4	554.7	537.4	528.7	524.4
12.5°	3926.5	3142.0	1815.9	1035.8	680.4	559.1	511.4	489.7	476.7	463.7	459.4
15°	4125.8	3150.7	1581.9	801.8	563.4	498.4	459.4	437.7	420.4	407.4	407.4
17.5°	4333.9	3163.7	1352.2	650.1	511.4	455.1	411.7	381.4	368.4	355.4	351.0
20°	4528.9	3159.4	1131.1	554.7	463.7	407.4	364.0	333.7	312.0	299.0	299.0
22.5°	4715.2	3133.4	923.1	498.4	424.7	359.7	312.0	281.7	264.4	251.4	251.4
25°	4914.6	3081.4	754.1	455.1	377.0	316.4	268.7	238.4	225.4	212.4	212.4
27.5°	5070.6	2994.7	615.4	416.0	333.7	273.0	229.7	203.7	190.7	182.0	182.0
30°	5239.6	2869.0	511.4	372.7	290.4	234.0	195.0	173.4	160.4	156.0	156.0
32.5°	5426.0	2730.3	437.7	329.4	247.0	199.4	164.7	151.7	138.7	134.3	134.3
35°	5642.7	2609.0	394.4	286.0	216.7	169.0	143.0	130.0	121.3	121.3	121.3
37.5°	5889.7	2483.3	355.4	251.4	186.4	143.0	121.3	117.0	112.7	108.3	108.3
40°	6158.4	2348.9	320.7	221.0	160.4	121.3	104.0	104.0	99.7	99.7	99.7
42.5°	6461.8	2231.9	290.4	195.0	138.7	104.0	91.0	91.0	86.7	86.7	86.7
45°	6791.1	2123.6	264.4	173.4	121.3	91.0	82.3	78.0	73.7	73.7	73.7
47.5°	7181.2	2062.9	242.7	151.7	104.0	78.0	69.3	65.0	60.7	56.3	56.3
50°	7679.6	2088.9	221.0	125.7	91.0	65.0	56.3	52.0	47.7	43.3	43.3
52.5°	8074.0	2075.9	190.7	108.3	73.7	52.0	43.3	39.0	34.7	30.3	30.3
55°	8360.0	2023.9	164.7	91.0	56.3	43.3	34.7	26.0	21.7	21.7	21.7
57.5°	8641.7	1971.9	138.7	73.7	43.3	30.3	21.7	17.3	17.3	17.3	17.3
60°	9079.4	1898.2	121.3	60.7	34.7	21.7	13.0	13.0	8.7	8.7	8.7
62.5°	9612.5	1807.2	99.7	52.0	26.0	17.3	8.7	8.7	0.0	0.0	0.0
65°	10197.6	1646.9	82.3	39.0	21.7	13.0	8.7	0.0	0.0	0.0	0.0
67.5°	10063.2	1321.8	69.3	26.0	17.3	8.7	4.3	0.0	0.0	0.0	0.0
70°	8901.7	892.8	56.3	21.7	13.0	8.7	4.3	0.0	0.0	0.0	0.0
72.5°	6973.2	528.7	39.0	17.3	8.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	4463.9	264.4	26.0	13.0	8.7	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	1495.2	130.0	17.3	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	212.4	43.3	8.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.7	17.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	4.3	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)