

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: P399916

Luminaire Tested: **ARCH-L-PA3-210-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18262 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

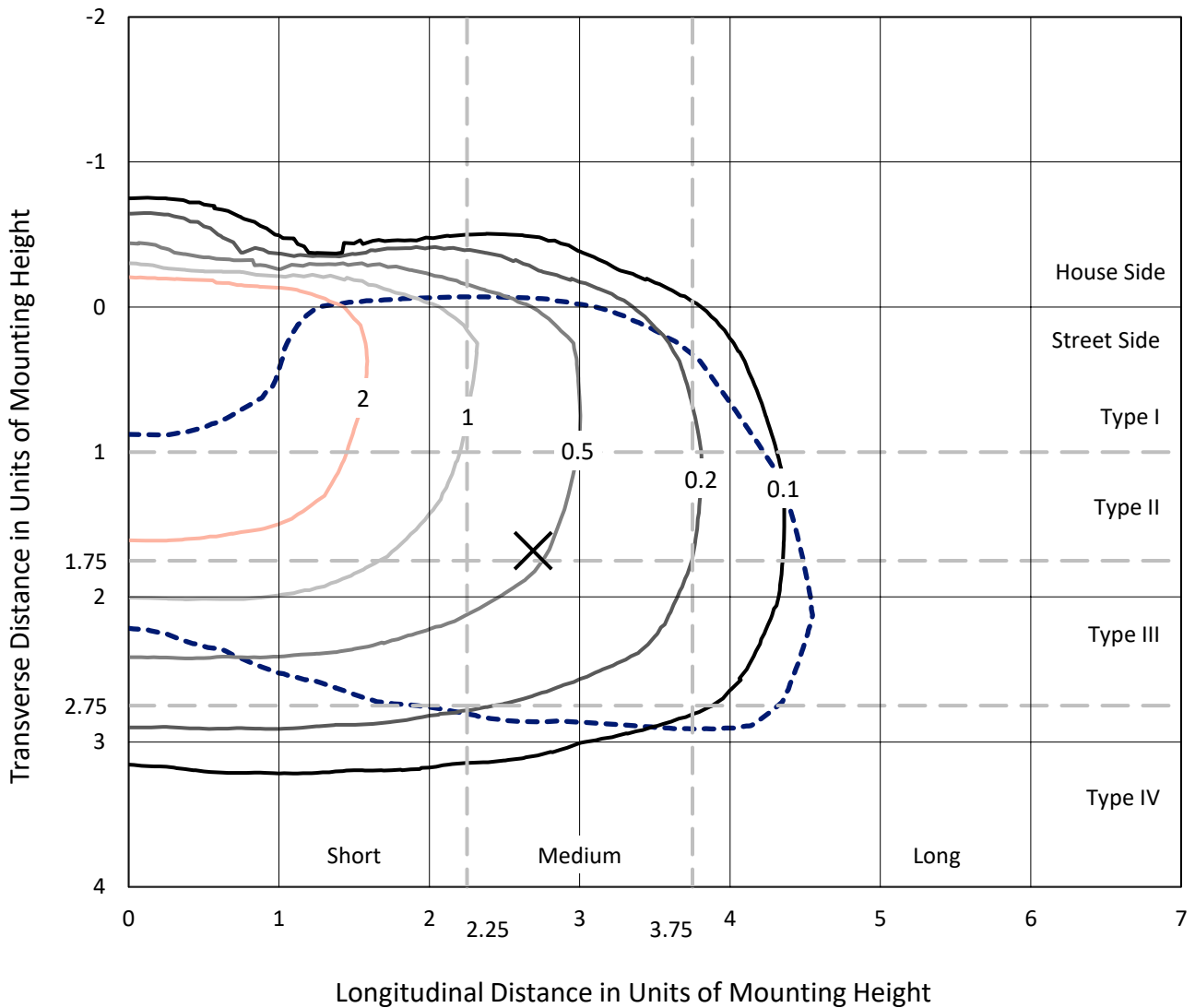
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

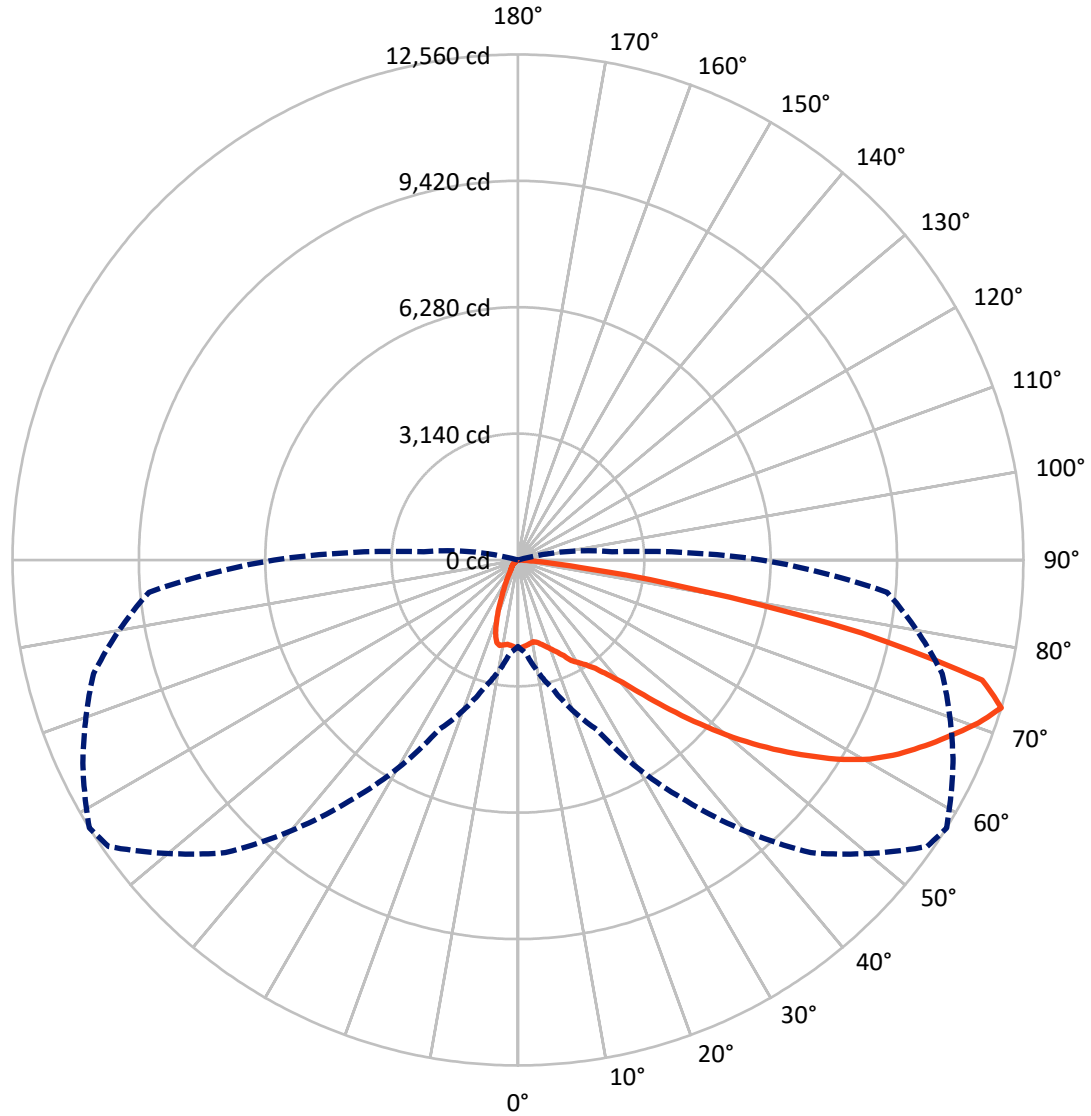
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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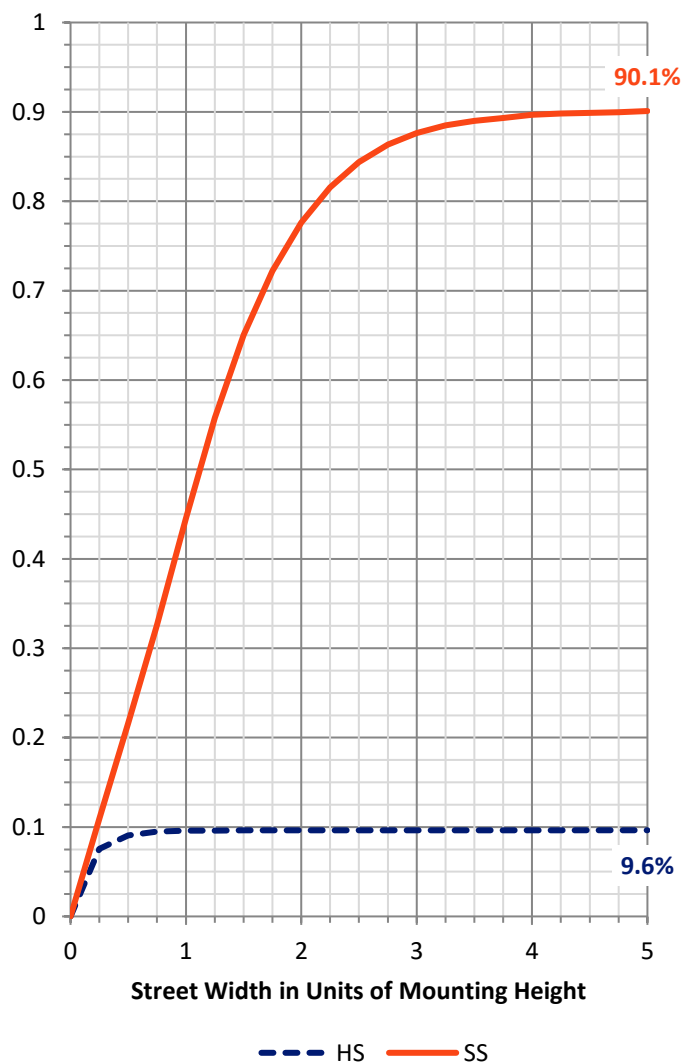
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.9	0.0	1775.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16486.2	0.0	16486.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	18262.0	0.0	18262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.1
10°-20°	523.8	2.9
20°-30°	822.9	4.5
30°-40°	1419.1	7.8
40°-50°	2699.9	14.8
50°-60°	4275.8	23.4
60°-70°	4989.4	27.3
70°-80°	3124.9	17.1
80°-90°	205.1	1.1
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°	18262.0	100.0
0°-180°	18262.0	100.0

Coefficient of Utilization

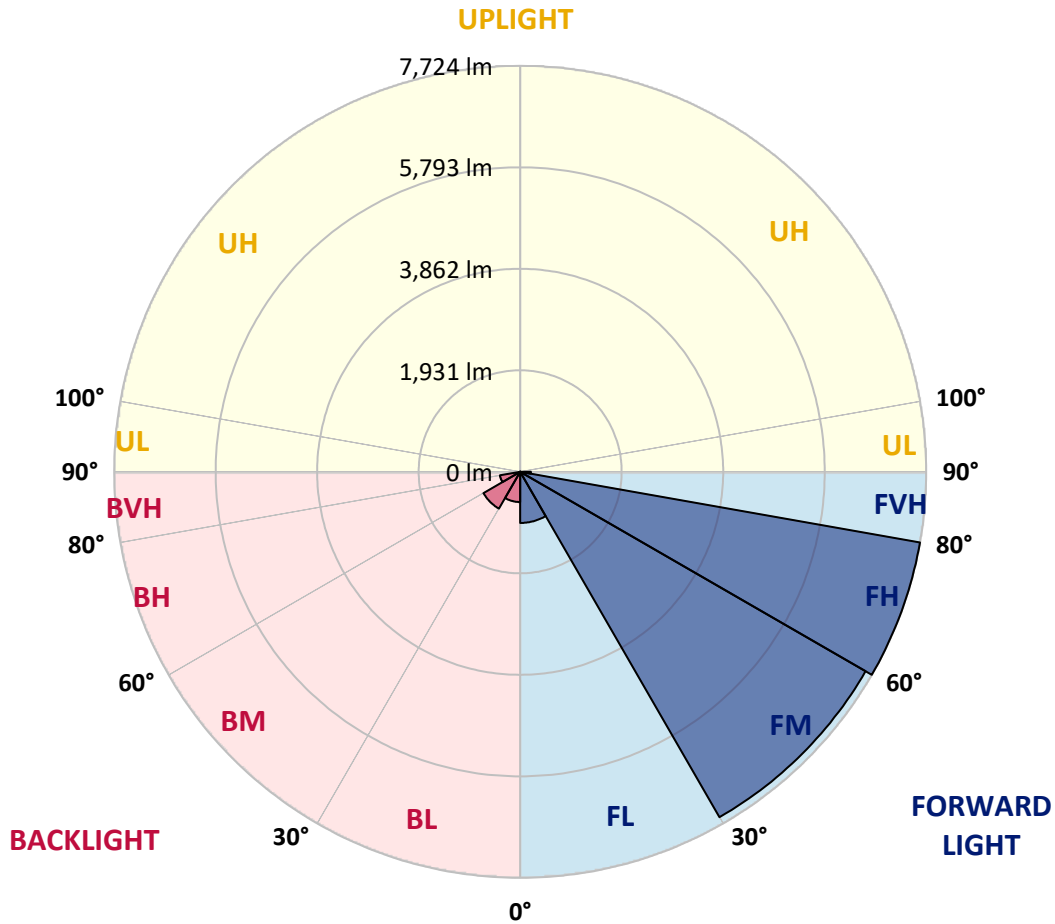


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.7	5.3			
FM (30°-60°)	7586.8	41.5			
FH (60°-80°)	7723.5	42.3			G4/12000
FVH (80°-90°)	203.1	1.1			G2/225
BL (0°-30°)	575.1	3.1	B2/1000		
BM (30°-60°)	808.0	4.4	B1/1000		
BH (60°-80°)	390.8	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3
2.5°	2181.5	2171.7	2168.5	2165.2	2168.5	2171.7	2161.9	2171.7	2165.2	2168.5	2175.0
5°	2103.2	2093.4	2090.1	2093.4	2103.2	2119.5	2126.0	2135.8	2135.8	2145.6	2148.9
7.5°	2015.0	2008.4	2005.2	2011.7	2031.3	2067.2	2086.8	2099.9	2113.0	2132.5	2152.1
10°	1966.0	1962.7	1959.5	1969.3	1988.9	2021.5	2047.6	2067.2	2116.2	2171.7	2207.7
12.5°	1933.3	1933.3	1939.9	1959.5	1985.6	2011.7	2073.8	2099.9	2175.0	2259.9	2308.9
15°	1907.2	1907.2	1917.0	1952.9	1988.9	2050.9	2142.3	2171.7	2259.9	2364.4	2429.7
17.5°	1887.6	1894.1	1900.7	1936.6	2005.2	2109.7	2217.5	2259.9	2367.7	2482.0	2553.8
20°	1890.9	1897.4	1900.7	1936.6	2034.6	2178.3	2315.4	2364.4	2488.5	2609.3	2681.2
22.5°	1910.5	1920.3	1923.5	1972.5	2086.8	2250.1	2426.5	2482.0	2615.9	2743.2	2798.8
25°	1992.1	1998.6	1979.1	2021.5	2161.9	2361.1	2570.2	2628.9	2762.8	2880.4	2926.1
27.5°	2269.7	2276.2	2168.5	2119.5	2220.7	2452.6	2746.5	2828.2	2994.7	3073.1	3079.6
30°	2870.6	2877.1	2664.9	2433.0	2361.1	2531.0	2844.5	2958.8	3174.3	3262.5	3223.3
32.5°	3644.6	3638.1	3347.4	3004.5	2694.3	2668.1	2984.9	3105.7	3340.9	3425.8	3396.4
35°	4421.8	4431.6	4183.4	3667.5	3223.3	2926.1	3164.5	3305.0	3589.1	3709.9	3657.7
37.5°	4954.2	5019.5	4911.7	4353.3	3873.2	3402.9	3455.2	3605.4	3961.4	4124.7	4013.6
40°	5705.3	5689.0	5427.7	5016.2	4591.7	4108.3	3925.5	3997.3	4405.5	4624.3	4451.2
42.5°	6714.4	6681.8	6237.6	5835.9	5362.4	4967.2	4594.9	4581.9	4915.0	5169.7	4918.2
45°	7628.8	7579.8	7276.1	6887.5	6368.2	5914.3	5411.4	5297.1	5528.9	5744.5	5450.6
47.5°	8357.1	8275.4	8059.9	7854.2	7726.8	7021.4	6267.0	6093.9	6211.5	6371.5	5956.8
50°	9219.3	8993.9	8680.4	8556.3	8820.8	8275.4	7090.0	6923.4	6916.9	7008.3	6479.3
52.5°	9611.1	9202.9	9026.6	9131.1	9598.1	9441.3	7978.3	7739.9	7645.2	7655.0	6965.9
55°	9137.6	9091.9	9186.6	9513.2	10123.9	10032.4	8830.6	8536.7	8396.3	8219.9	7432.9
57.5°	8598.8	8739.2	9114.8	9738.5	10790.1	10649.7	9669.9	9336.8	9078.8	8673.9	7952.1
60°	8102.4	8246.1	8866.6	9790.8	11155.9	11244.0	10368.8	10052.0	9669.9	9137.6	8523.6
62.5°	7348.0	7459.0	8331.0	9715.7	10995.8	11590.2	10855.4	10617.0	10261.0	9578.5	9180.1
65°	6498.9	6570.7	7432.9	9114.8	10682.3	11551.0	11257.1	11123.2	10777.0	10039.0	9830.0
67.5°	5568.1	5653.0	6371.5	8033.8	10068.4	11368.1	11635.9	11622.9	11227.7	10548.4	10300.2
70°	4497.0	4503.5	5097.9	6662.2	8997.2	11002.4	12106.2	12135.6	11658.8	10930.5	10319.8
72.5°	2152.1	2328.5	3305.0	4650.5	7312.0	10283.9	12413.2	12560.1	11929.8	10917.5	9206.2
75°	493.1	509.5	963.4	2210.9	4288.0	7893.4	11645.7	11920.0	11270.2	9441.3	6485.8
77.5°	179.6	189.4	271.1	646.6	1649.2	4078.9	8334.2	8735.9	8331.0	6103.7	3066.6
80°	120.8	117.6	140.4	287.4	757.7	1156.1	4261.8	4500.2	4108.3	2083.6	734.8
82.5°	62.0	65.3	98.0	160.0	509.5	401.7	1423.9	1548.0	1273.6	418.0	137.2
85°	29.4	29.4	55.5	101.2	215.5	140.4	316.8	382.1	342.9	182.9	45.7
87.5°	29.4	29.4	52.3	65.3	111.0	58.8	78.4	98.0	91.4	98.0	16.3
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°	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3
2.5°	2175.0	2171.7	2168.5	2175.0	2171.7	2178.3	2178.3	2184.8	2184.8	2178.3	2175.0
5°	2145.6	2139.1	2132.5	2132.5	2129.3	2135.8	2155.4	2171.7	2175.0	2165.2	2161.9
7.5°	2148.9	2148.9	2142.3	2129.3	2106.4	2106.4	2106.4	2126.0	2135.8	2129.3	2126.0
10°	2207.7	2210.9	2194.6	2165.2	2126.0	2090.1	2021.5	1920.3	1825.6	1799.4	1789.6
12.5°	2308.9	2312.2	2279.5	2227.3	2145.6	1933.3	1672.1	1430.4	1244.3	1192.0	1182.2
15°	2429.7	2433.0	2374.2	2289.3	2041.1	1548.0	1159.3	885.0	721.7	682.5	679.3
17.5°	2553.8	2547.3	2459.1	2295.8	1730.9	1097.3	705.4	565.0	522.5	512.7	516.0
20°	2674.7	2655.1	2534.2	2175.0	1332.4	718.5	516.0	483.3	473.5	467.0	467.0
22.5°	2785.7	2746.5	2596.3	1936.6	934.0	516.0	460.5	453.9	440.9	431.1	427.8
25°	2896.7	2841.2	2635.5	1626.4	627.0	450.7	434.3	421.3	405.0	391.9	388.6
27.5°	3030.6	2952.3	2615.9	1234.5	470.3	418.0	405.0	385.4	362.5	342.9	336.4
30°	3158.0	3069.8	2504.8	852.4	401.7	385.4	365.8	336.4	307.0	284.1	277.6
32.5°	3318.0	3216.8	2305.6	558.4	349.4	336.4	316.8	280.9	241.7	215.5	209.0
35°	3546.6	3432.3	2050.9	391.9	307.0	284.1	258.0	218.8	176.4	156.8	153.5
37.5°	3866.7	3713.2	1730.9	316.8	271.1	238.4	199.2	160.0	130.6	114.3	111.0
40°	4258.6	4023.4	1374.9	280.9	241.7	199.2	150.2	114.3	94.7	81.6	81.6
42.5°	4683.1	4314.1	1012.4	258.0	212.3	163.3	111.0	81.6	68.6	62.0	58.8
45°	5120.7	4572.1	682.5	238.4	186.1	124.1	78.4	55.5	45.7	45.7	42.5
47.5°	5574.7	4745.2	440.9	215.5	156.8	91.4	52.3	39.2	32.7	32.7	32.7
50°	6025.3	4836.6	313.5	195.9	127.4	62.0	39.2	29.4	26.1	26.1	26.1
52.5°	6351.9	4777.8	251.5	169.8	98.0	45.7	29.4	22.9	19.6	19.6	19.6
55°	6636.0	4676.6	218.8	147.0	71.8	32.7	22.9	19.6	16.3	16.3	16.3
57.5°	6926.7	4545.9	195.9	124.1	52.3	22.9	16.3	13.1	13.1	13.1	13.1
60°	7191.2	4323.9	169.8	98.0	35.9	16.3	13.1	9.8	9.8	9.8	9.8
62.5°	7449.2	4134.5	147.0	75.1	26.1	13.1	6.5	6.5	3.3	3.3	3.3
65°	7596.2	3879.7	117.6	49.0	16.3	9.8	3.3	3.3	0.0	0.0	0.0
67.5°	7550.4	3576.0	81.6	29.4	9.8	6.5	3.3	0.0	0.0	0.0	0.0
70°	7233.7	3167.8	49.0	16.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	6058.0	2344.8	29.4	13.1	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	4046.3	1077.7	16.3	9.8	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1851.7	323.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	372.3	84.9	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.4	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	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)