

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: P399846

Luminaire Tested: **ARCH-L-PA3-200-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17494 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

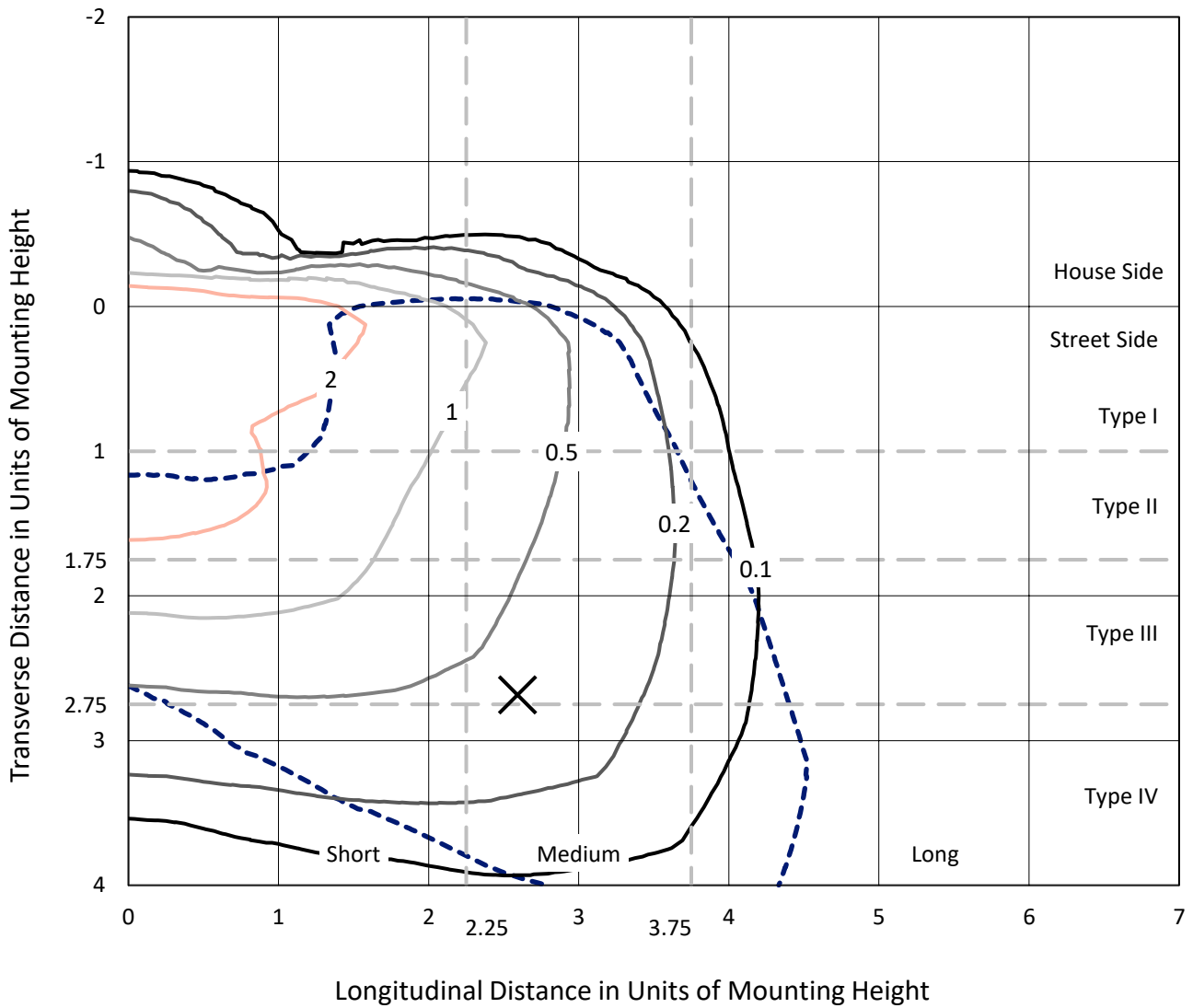
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

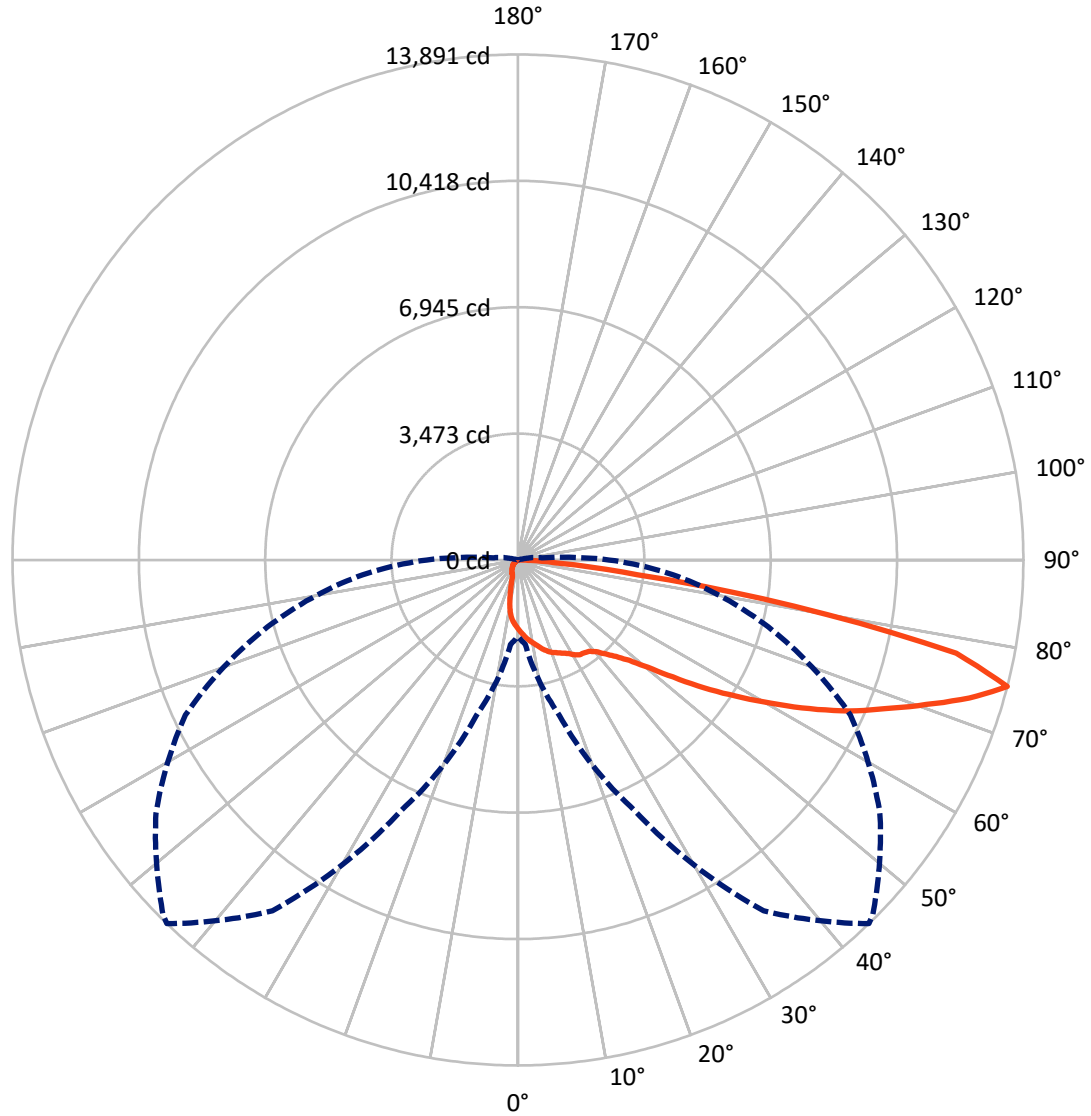
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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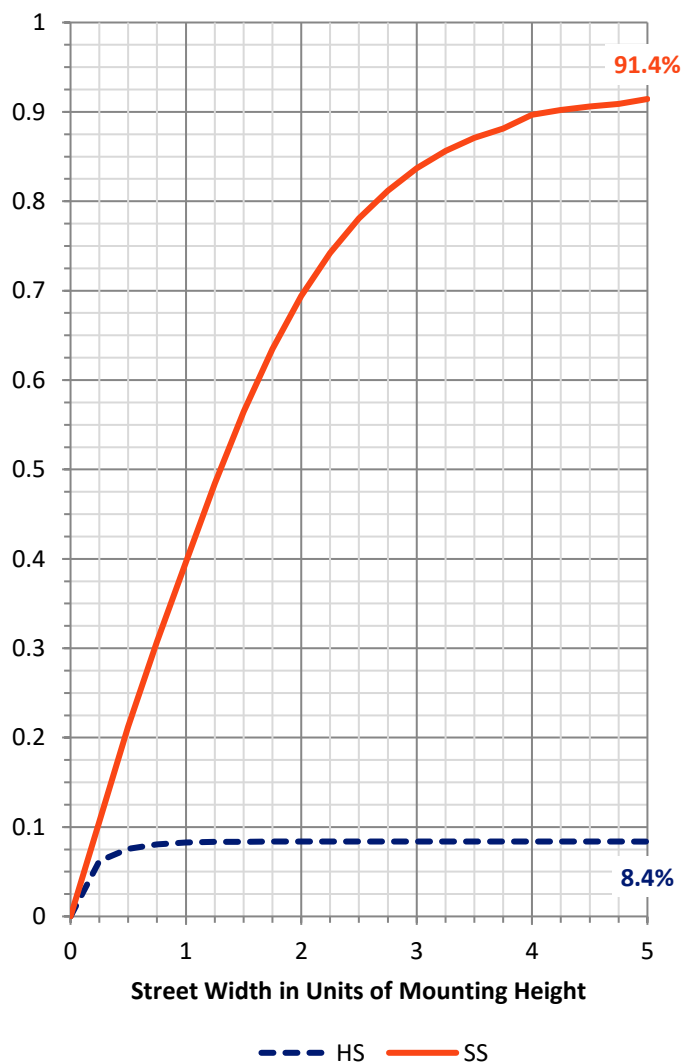
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1475.3	0.0	1475.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16018.7	0.0	16018.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	17494.0	0.0	17494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.0
10°-20°	503.2	2.9
20°-30°	830.4	4.7
30°-40°	1205.3	6.9
40°-50°	1959.2	11.2
50°-60°	3453.9	19.7
60°-70°	4963.9	28.4
70°-80°	3975.0	22.7
80°-90°	423.5	2.4
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°	17494.0	100.0
0°-180°	17494.0	100.0

Coefficient of Utilization



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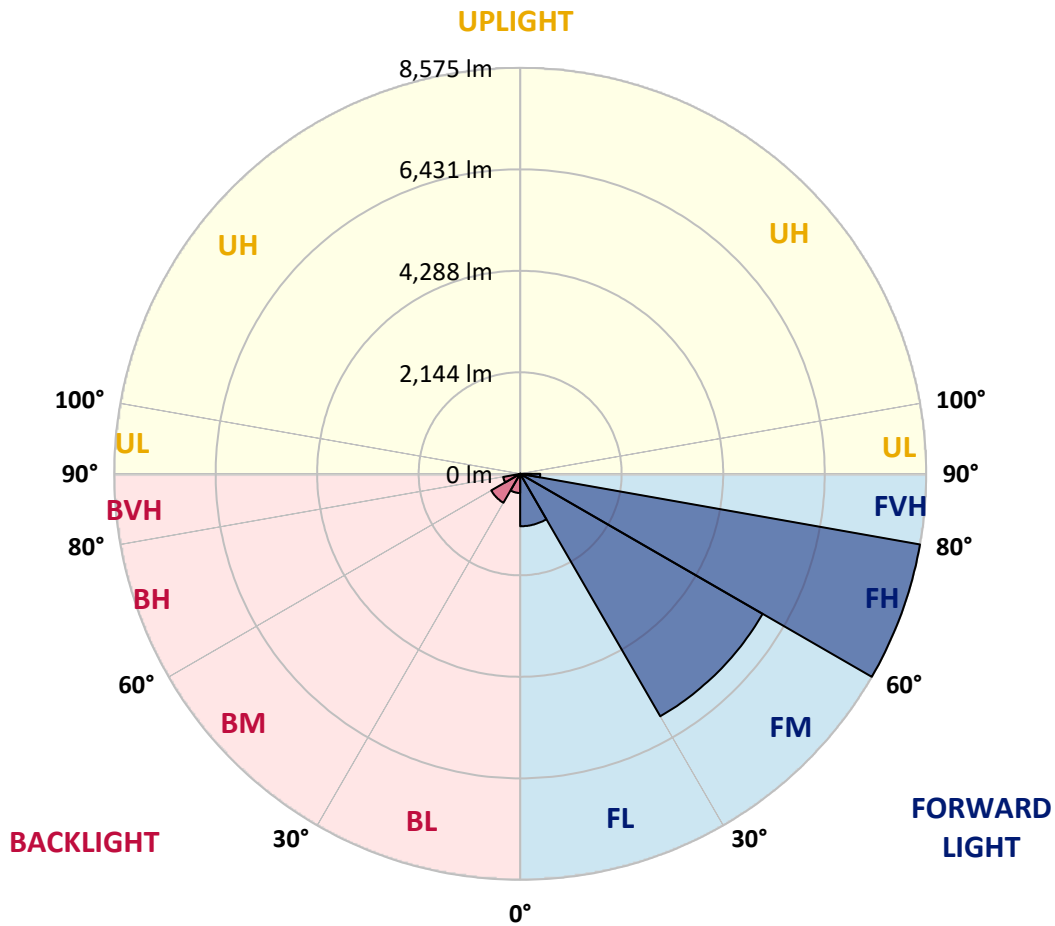
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.9	6.3			
FM (30°-60°)	5913.1	33.8			
FH (60°-80°)	8575.3	49.0			G4/12000
FVH (80°-90°)	422.4	2.4			G3/500
BL (0°-30°)	405.3	2.3	B1/500		
BM (30°-60°)	705.2	4.0	B1/1000		
BH (60°-80°)	363.7	2.1	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2
2.5°	2075.2	2072.0	2062.3	2046.2	2030.0	2013.9	2010.7	1984.8	1955.8	1933.2	1913.8
5°	2259.2	2255.9	2239.8	2204.3	2168.8	2126.8	2123.6	2062.3	2007.4	1946.1	1894.5
7.5°	2449.6	2443.1	2414.1	2359.2	2297.9	2233.3	2226.9	2136.5	2055.8	1975.2	1900.9
10°	2598.0	2591.6	2549.6	2485.1	2401.2	2320.5	2310.8	2217.2	2136.5	2033.3	1933.2
12.5°	2743.3	2730.4	2675.5	2604.5	2501.2	2423.8	2414.1	2317.3	2220.4	2113.9	1991.3
15°	2878.8	2862.7	2811.1	2720.7	2611.0	2536.7	2530.3	2427.0	2326.9	2204.3	2068.8
17.5°	2972.4	2966.0	2904.6	2804.6	2698.1	2636.8	2630.3	2523.8	2423.8	2294.7	2149.4
20°	3020.8	3020.8	2962.7	2853.0	2756.2	2714.2	2704.5	2604.5	2507.7	2385.0	2233.3
22.5°	3030.5	3040.2	2995.0	2875.6	2804.6	2769.1	2762.6	2675.5	2581.9	2468.9	2326.9
25°	3049.9	3049.9	3027.3	2898.2	2846.6	2836.9	2833.6	2756.2	2672.3	2559.3	2420.5
27.5°	3072.5	3072.5	3056.3	2930.5	2911.1	2907.9	2904.6	2869.1	2801.4	2669.0	2530.3
30°	3130.6	3133.8	3120.9	2995.0	2982.1	3017.6	3024.1	3004.7	2920.8	2756.2	2643.2
32.5°	3275.8	3246.7	3211.2	3040.2	3062.8	3108.0	3111.2	3072.5	2982.1	2849.8	2778.8
35°	3640.5	3469.4	3308.1	3078.9	3088.6	3133.8	3140.2	3137.0	3082.2	2969.2	2933.7
37.5°	3979.4	3737.3	3508.2	3169.3	3137.0	3185.4	3198.3	3253.2	3211.2	3133.8	3143.5
40°	4176.2	4082.6	3921.3	3417.8	3233.8	3308.1	3321.0	3404.9	3388.8	3356.5	3417.8
42.5°	4783.0	4789.4	4615.2	3788.9	3411.3	3530.8	3546.9	3614.7	3637.3	3653.4	3801.9
45°	5486.5	5509.1	5467.2	4457.0	3747.0	3785.7	3808.3	3898.7	3982.6	4085.9	4357.0
47.5°	6332.1	6312.8	6157.8	5273.5	4331.1	4114.9	4131.0	4305.3	4450.6	4676.5	5063.8
50°	7080.9	7129.3	6835.6	6035.2	5154.1	4634.5	4618.4	4789.4	5050.9	5367.1	5854.5
52.5°	7836.1	7765.1	7368.1	6790.4	6128.8	5341.3	5292.9	5386.5	5754.4	6128.8	6629.0
55°	8036.2	8042.6	7907.1	7616.6	6942.1	6199.8	6119.1	6112.7	6571.0	6825.9	7442.3
57.5°	8429.9	8446.1	8478.3	8536.4	8216.9	7058.3	6974.4	6884.0	7329.4	7477.8	8258.9
60°	8830.1	8849.5	9046.4	9359.4	9146.4	7984.5	7894.2	7681.2	7929.7	8129.8	9117.4
62.5°	8778.5	8914.0	9485.3	10108.2	10082.3	9001.2	8888.2	8375.1	8533.2	8707.5	9904.8
65°	7926.5	8071.7	9356.2	10314.7	11021.5	10004.9	9820.9	9091.5	9101.2	9311.0	10663.3
67.5°	7164.8	7322.9	8549.3	10227.6	11641.2	10905.3	10714.9	9811.2	9659.6	10008.1	11069.9
70°	6725.9	6884.0	7907.1	9956.5	11815.4	11902.6	11738.0	10634.2	10324.4	10643.9	10614.9
72.5°	5263.9	5512.4	7087.3	9440.1	12002.6	12970.8	12841.8	11676.7	10889.2	9979.1	8081.4
75°	2097.8	2326.9	4424.7	7597.3	11767.0	13890.7	13790.6	12144.6	10079.1	7126.1	4137.5
77.5°	632.6	677.8	1229.6	3756.7	8626.8	12315.7	12283.4	10211.4	7132.5	3308.1	1129.6
80°	209.8	232.4	377.6	1036.0	3937.4	7694.1	7839.3	6506.4	3240.3	758.4	229.1
82.5°	87.1	96.8	190.4	416.3	1394.2	3314.5	3266.1	2914.3	1129.6	471.2	83.9
85°	22.6	29.0	87.1	238.8	509.9	1142.5	1200.6	977.9	639.0	390.5	25.8
87.5°	0.0	0.0	42.0	96.8	229.1	345.3	361.5	296.9	361.5	293.7	12.9
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°	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2	1904.2
2.5°	1897.7	1881.6	1852.5	1833.2	1807.3	1800.9	1788.0	1771.8	1768.6	1752.5	1755.7
5°	1865.4	1839.6	1788.0	1752.5	1710.5	1697.6	1675.0	1658.9	1646.0	1623.4	1626.6
7.5°	1859.0	1820.2	1749.2	1681.5	1613.7	1565.3	1497.5	1442.6	1397.5	1349.0	1358.7
10°	1881.6	1833.2	1733.1	1639.5	1516.9	1362.0	1184.4	1068.3	1010.2	952.1	958.5
12.5°	1926.7	1868.7	1739.6	1597.6	1349.0	1084.4	839.1	681.0	639.0	613.2	616.4
15°	1994.5	1923.5	1758.9	1516.9	1123.1	784.3	558.3	490.6	506.7	516.4	516.4
17.5°	2065.5	1984.8	1775.1	1371.6	868.2	548.7	455.1	448.6	471.2	493.8	493.8
20°	2152.7	2049.4	1778.3	1187.7	626.1	445.4	429.2	429.2	445.4	471.2	471.2
22.5°	2236.6	2120.4	1749.2	977.9	477.7	413.1	413.1	413.1	422.8	448.6	451.8
25°	2336.6	2207.5	1687.9	755.2	409.9	393.7	393.7	397.0	403.4	426.0	429.2
27.5°	2443.1	2297.9	1584.6	551.9	374.4	371.1	374.4	377.6	380.8	403.4	409.9
30°	2565.8	2397.9	1452.3	413.1	342.1	342.1	351.8	358.2	358.2	377.6	384.1
32.5°	2707.8	2530.3	1294.2	342.1	309.8	306.6	322.7	332.4	332.4	348.6	355.0
35°	2885.3	2665.8	1103.8	303.4	284.0	277.6	284.0	300.1	306.6	319.5	322.7
37.5°	3120.9	2827.2	900.4	280.8	264.6	251.7	251.7	255.0	267.9	280.8	284.0
40°	3421.0	3004.7	700.3	264.6	245.3	232.4	222.7	219.5	216.2	225.9	232.4
42.5°	3798.6	3204.8	522.8	248.5	229.1	209.8	196.9	184.0	167.8	164.6	167.8
45°	4282.7	3450.1	387.3	235.6	219.5	190.4	167.8	145.2	116.2	106.5	109.7
47.5°	4854.0	3705.0	303.4	222.7	213.0	167.8	138.8	100.0	71.0	64.5	67.8
50°	5460.7	3950.3	258.2	206.6	200.1	145.2	100.0	61.3	42.0	42.0	45.2
52.5°	5977.1	4089.1	235.6	193.6	180.7	119.4	64.5	35.5	25.8	25.8	29.0
55°	6477.4	4163.3	219.5	180.7	154.9	83.9	35.5	22.6	16.1	16.1	16.1
57.5°	6993.7	4195.6	200.1	164.6	122.6	51.6	19.4	12.9	9.7	9.7	9.7
60°	7452.0	4134.3	171.1	135.6	80.7	25.8	9.7	9.7	6.5	3.2	3.2
62.5°	7836.1	4018.1	119.4	96.8	48.4	12.9	6.5	3.2	0.0	0.0	0.0
65°	8071.7	3830.9	77.5	64.5	29.0	9.7	3.2	0.0	0.0	0.0	0.0
67.5°	8003.9	3479.1	48.4	42.0	12.9	6.5	3.2	0.0	0.0	0.0	0.0
70°	7222.9	2853.0	35.5	25.8	9.7	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	5205.8	1930.0	25.8	16.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2504.4	687.4	16.1	12.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	613.2	151.7	9.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	135.6	29.0	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.2	12.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.2	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)