

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: P399900

Luminaire Tested: **ARCH-L-PA3-200-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399900
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-PA3-200-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 16622 lumens
Efficiency: N/A
Efficacy: 82.7 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

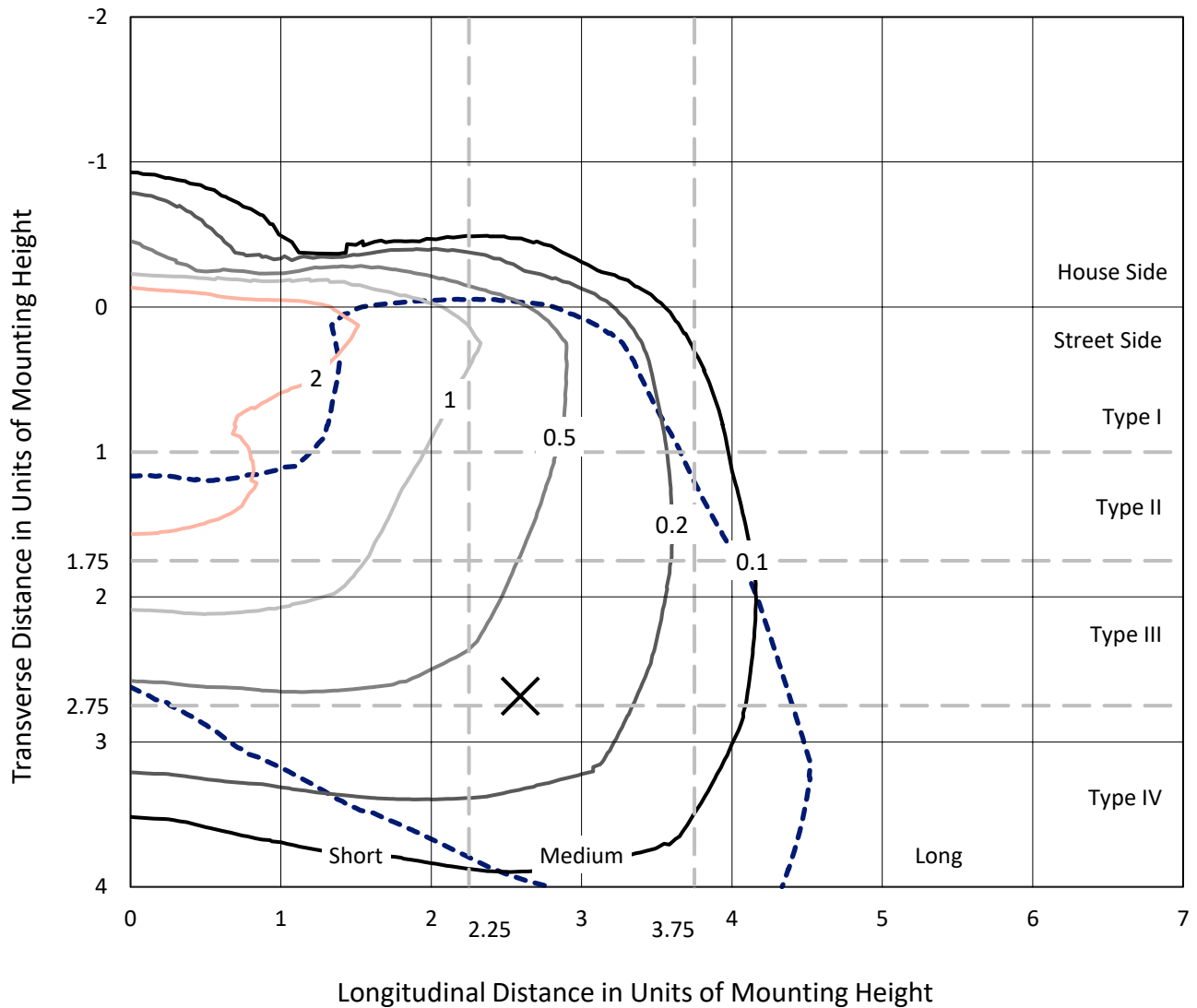
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

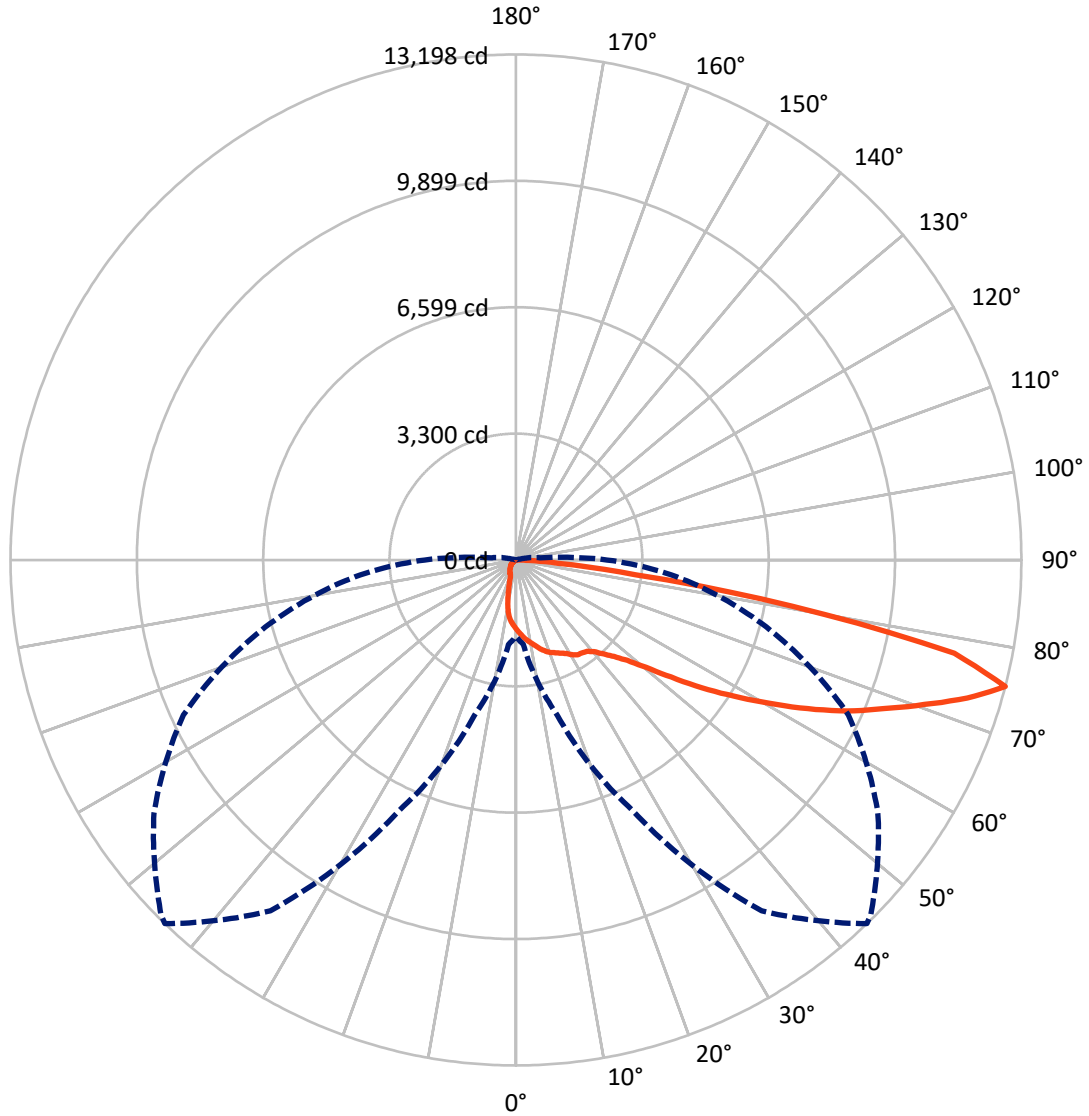
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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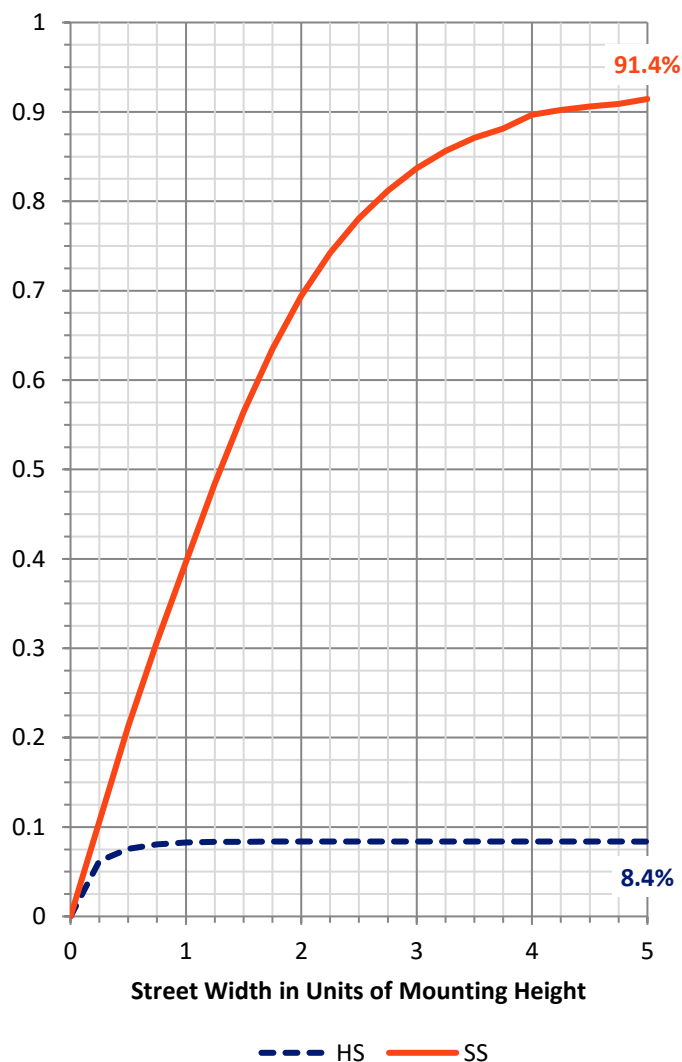
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.8	0.0	1401.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15220.2	0.0	15220.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	16622.0	0.0	16622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.0
10°-20°	478.1	2.9
20°-30°	789.0	4.7
30°-40°	1145.2	6.9
40°-50°	1861.6	11.2
50°-60°	3281.7	19.7
60°-70°	4716.5	28.4
70°-80°	3776.9	22.7
80°-90°	402.4	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°	16622.0	100.0
0°-180°	16622.0	100.0

Coefficient of Utilization



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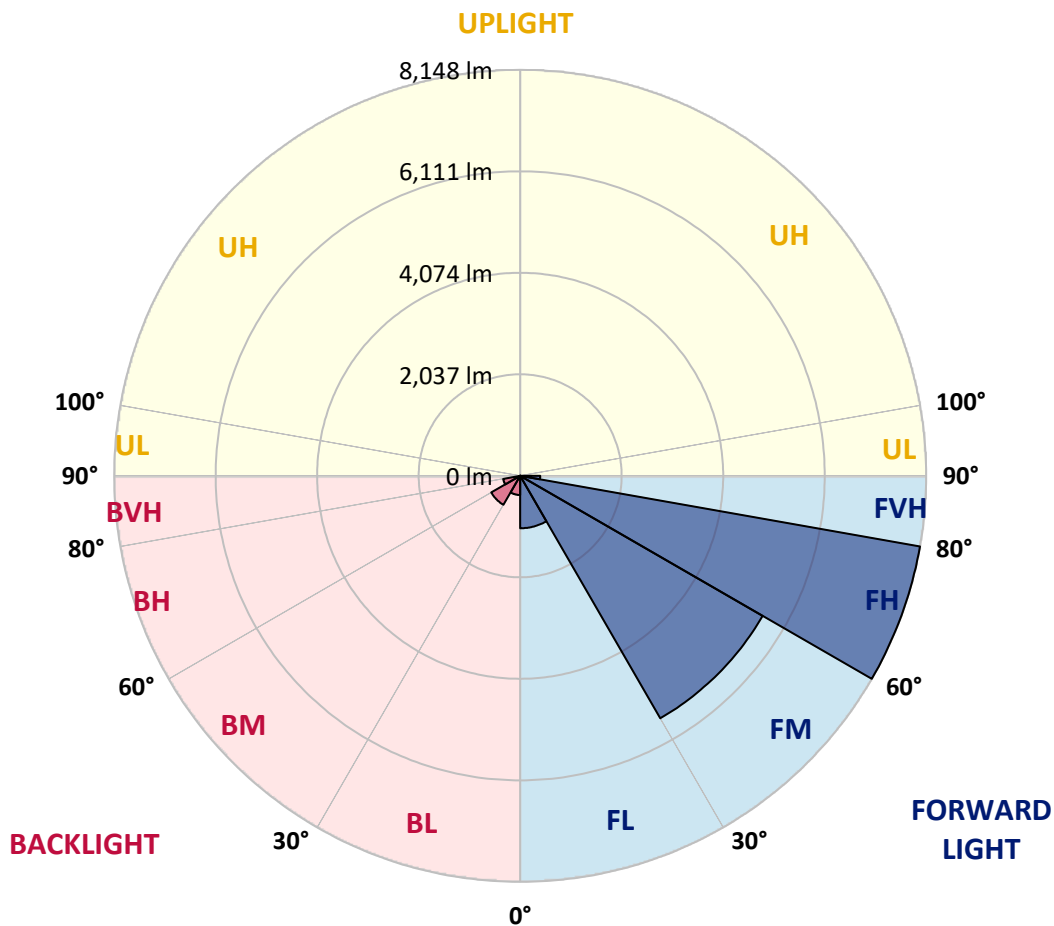
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.6	6.3			
FM (30°-60°)	5618.4	33.8			
FH (60°-80°)	8147.8	49.0			G4/12000
FVH (80°-90°)	401.4	2.4			G3/500
BL (0°-30°)	385.1	2.3	B1/500		
BM (30°-60°)	670.1	4.0	B1/1000		
BH (60°-80°)	345.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1971.8	1968.7	1959.5	1944.2	1928.8	1913.5	1910.4	1885.9	1858.3	1836.8	1818.4
5°	2146.6	2143.5	2128.2	2094.4	2060.7	2020.8	2017.8	1959.5	1907.4	1849.1	1800.0
7.5°	2327.5	2321.3	2293.8	2241.6	2183.4	2122.0	2115.9	2030.0	1953.4	1876.7	1806.2
10°	2468.5	2462.4	2422.5	2361.2	2281.5	2204.8	2195.6	2106.7	2030.0	1931.9	1836.8
12.5°	2606.5	2594.3	2542.1	2474.7	2376.5	2303.0	2293.8	2201.8	2109.8	2008.6	1892.0
15°	2735.3	2720.0	2670.9	2585.1	2480.8	2410.3	2404.1	2306.0	2211.0	2094.4	1965.6
17.5°	2824.3	2818.1	2759.9	2664.8	2563.6	2505.3	2499.2	2398.0	2303.0	2180.3	2042.3
20°	2870.3	2870.3	2815.1	2710.8	2618.8	2578.9	2569.7	2474.7	2382.7	2266.2	2122.0
22.5°	2879.5	2888.7	2845.7	2732.3	2664.8	2631.1	2624.9	2542.1	2453.2	2345.9	2211.0
25°	2897.9	2897.9	2876.4	2753.7	2704.7	2695.5	2692.4	2618.8	2539.1	2431.7	2299.9
27.5°	2919.3	2919.3	2904.0	2784.4	2766.0	2762.9	2759.9	2726.1	2661.7	2536.0	2404.1
30°	2974.5	2977.6	2965.3	2845.7	2833.5	2867.2	2873.3	2854.9	2775.2	2618.8	2511.5
32.5°	3112.5	3084.9	3051.2	2888.7	2910.1	2953.1	2956.1	2919.3	2833.5	2707.7	2640.3
35°	3459.0	3296.5	3143.2	2925.5	2934.7	2977.6	2983.7	2980.6	2928.5	2821.2	2787.5
37.5°	3781.0	3551.0	3333.3	3011.3	2980.6	3026.6	3038.9	3091.0	3051.2	2977.6	2986.8
40°	3968.1	3879.1	3725.8	3247.4	3072.6	3143.2	3155.4	3235.2	3219.8	3189.2	3247.4
42.5°	4544.6	4550.7	4385.1	3600.1	3241.3	3354.8	3370.1	3434.5	3456.0	3471.3	3612.4
45°	5213.1	5234.5	5194.7	4234.9	3560.2	3597.0	3618.5	3704.3	3784.1	3882.2	4139.8
47.5°	6016.5	5998.1	5850.9	5010.7	4115.3	3909.8	3925.1	4090.7	4228.7	4443.4	4811.4
50°	6727.9	6773.9	6494.9	5734.4	4897.2	4403.5	4388.2	4550.7	4799.1	5099.6	5562.7
52.5°	7445.5	7378.0	7000.8	6451.9	5823.3	5075.1	5029.1	5118.0	5467.6	5823.3	6298.6
55°	7635.6	7641.7	7513.0	7237.0	6596.1	5890.8	5814.1	5808.0	6243.4	6485.7	7071.4
57.5°	8009.7	8025.1	8055.7	8110.9	7807.3	6706.5	6626.7	6540.9	6964.0	7105.1	7847.2
60°	8390.0	8408.4	8595.4	8892.9	8690.5	7586.5	7500.7	7298.3	7534.4	7724.5	8662.9
62.5°	8340.9	8469.7	9012.5	9604.3	9579.8	8552.5	8445.2	7957.6	8107.9	8273.4	9411.1
65°	7531.4	7669.3	8889.8	9800.6	10472.1	9506.2	9331.4	8638.4	8647.6	8846.9	10131.8
67.5°	6807.7	6957.9	8123.2	9717.8	11060.9	10361.7	10180.8	9322.2	9178.1	9509.3	10518.1
70°	6390.6	6540.9	7513.0	9460.2	11226.5	11309.3	11152.9	10104.2	9809.8	10113.4	10085.8
72.5°	5001.5	5237.6	6734.1	8969.5	11404.4	12324.3	12201.6	11094.6	10346.4	9481.7	7678.5
75°	1993.2	2211.0	4204.2	7218.6	11180.5	13198.3	13103.2	11539.3	9576.7	6770.9	3931.3
77.5°	601.0	644.0	1168.3	3569.4	8196.8	11701.8	11671.1	9702.4	6777.0	3143.2	1073.3
80°	199.3	220.8	358.8	984.4	3741.1	7310.6	7448.6	6182.1	3078.8	720.6	217.7
82.5°	82.8	92.0	180.9	395.6	1324.7	3149.3	3103.3	2769.1	1073.3	447.7	79.7
85°	21.5	27.6	82.8	226.9	484.5	1085.5	1140.7	929.2	607.2	371.0	24.5
87.5°	0.0	0.0	39.9	92.0	217.7	328.1	343.4	282.1	343.4	279.1	12.3
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1803.1	1787.8	1760.2	1741.8	1717.2	1711.1	1698.8	1683.5	1680.4	1665.1	1668.2
5°	1772.4	1747.9	1698.8	1665.1	1625.3	1613.0	1591.5	1576.2	1563.9	1542.5	1545.5
7.5°	1766.3	1729.5	1662.0	1597.7	1533.3	1487.3	1422.9	1370.7	1327.8	1281.8	1291.0
10°	1787.8	1741.8	1646.7	1557.8	1441.3	1294.1	1125.4	1015.0	959.8	904.6	910.8
12.5°	1830.7	1775.5	1652.8	1517.9	1281.8	1030.3	797.3	647.0	607.2	582.6	585.7
15°	1895.1	1827.6	1671.2	1441.3	1067.1	745.2	530.5	466.1	481.4	490.6	490.6
17.5°	1962.6	1885.9	1686.6	1303.3	824.9	521.3	432.4	426.2	447.7	469.2	469.2
20°	2045.4	1947.2	1689.6	1128.5	594.9	423.2	407.8	407.8	423.2	447.7	447.7
22.5°	2125.1	2014.7	1662.0	929.2	453.8	392.5	392.5	392.5	401.7	426.2	429.3
25°	2220.2	2097.5	1603.8	717.6	389.4	374.1	374.1	377.2	383.3	404.8	407.8
27.5°	2321.3	2183.4	1505.7	524.4	355.7	352.6	355.7	358.8	361.8	383.3	389.4
30°	2437.9	2278.4	1379.9	392.5	325.1	325.1	334.2	340.4	340.4	358.8	364.9
32.5°	2572.8	2404.1	1229.7	325.1	294.4	291.3	306.7	315.9	315.9	331.2	337.3
35°	2741.5	2532.9	1048.7	288.3	269.9	263.7	269.9	285.2	291.3	303.6	306.7
37.5°	2965.3	2686.3	855.6	266.8	251.5	239.2	239.2	242.3	254.5	266.8	269.9
40°	3250.5	2854.9	665.4	251.5	233.1	220.8	211.6	208.5	205.5	214.7	220.8
42.5°	3609.3	3045.0	496.8	236.1	217.7	199.3	187.1	174.8	159.5	156.4	159.5
45°	4069.3	3278.1	368.0	223.9	208.5	180.9	159.5	138.0	110.4	101.2	104.3
47.5°	4612.0	3520.4	288.3	211.6	202.4	159.5	131.9	95.1	67.5	61.3	64.4
50°	5188.5	3753.4	245.3	196.3	190.1	138.0	95.1	58.3	39.9	39.9	42.9
52.5°	5679.2	3885.3	223.9	184.0	171.7	113.5	61.3	33.7	24.5	24.5	27.6
55°	6154.5	3955.8	208.5	171.7	147.2	79.7	33.7	21.5	15.3	15.3	15.3
57.5°	6645.1	3986.5	190.1	156.4	116.5	49.1	18.4	12.3	9.2	9.2	9.2
60°	7080.6	3928.2	162.5	128.8	76.7	24.5	9.2	9.2	6.1	3.1	3.1
62.5°	7445.5	3817.8	113.5	92.0	46.0	12.3	6.1	3.1	0.0	0.0	0.0
65°	7669.3	3639.9	73.6	61.3	27.6	9.2	3.1	0.0	0.0	0.0	0.0
67.5°	7604.9	3305.7	46.0	39.9	12.3	6.1	3.1	0.0	0.0	0.0	0.0
70°	6862.9	2710.8	33.7	24.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	4946.3	1833.8	24.5	15.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2379.6	653.2	15.3	12.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	582.6	144.1	9.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	128.8	27.6	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.9	12.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.1	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)