

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: P399166

Luminaire Tested: **ARCH-L-PA3-100-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12384 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

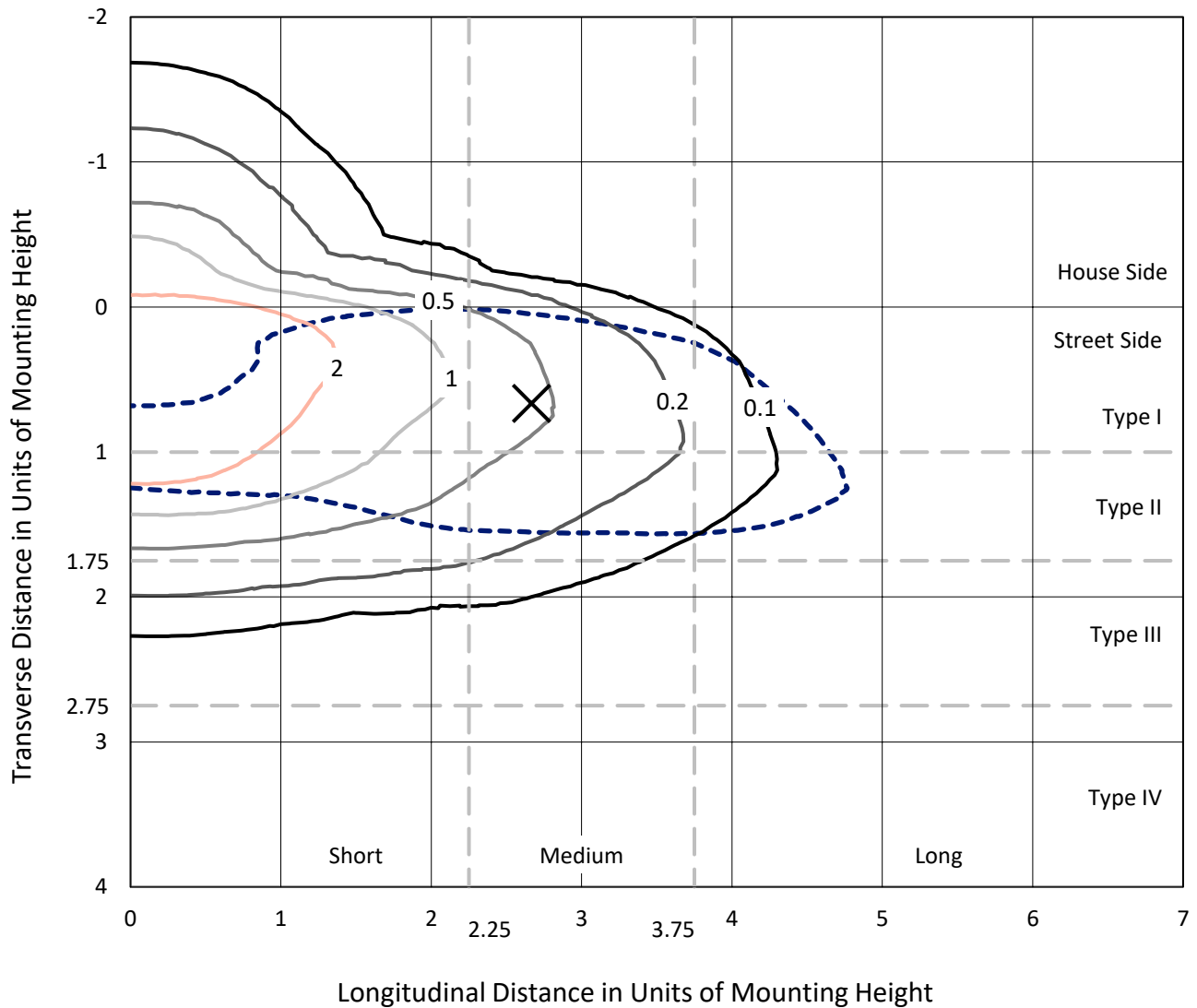
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

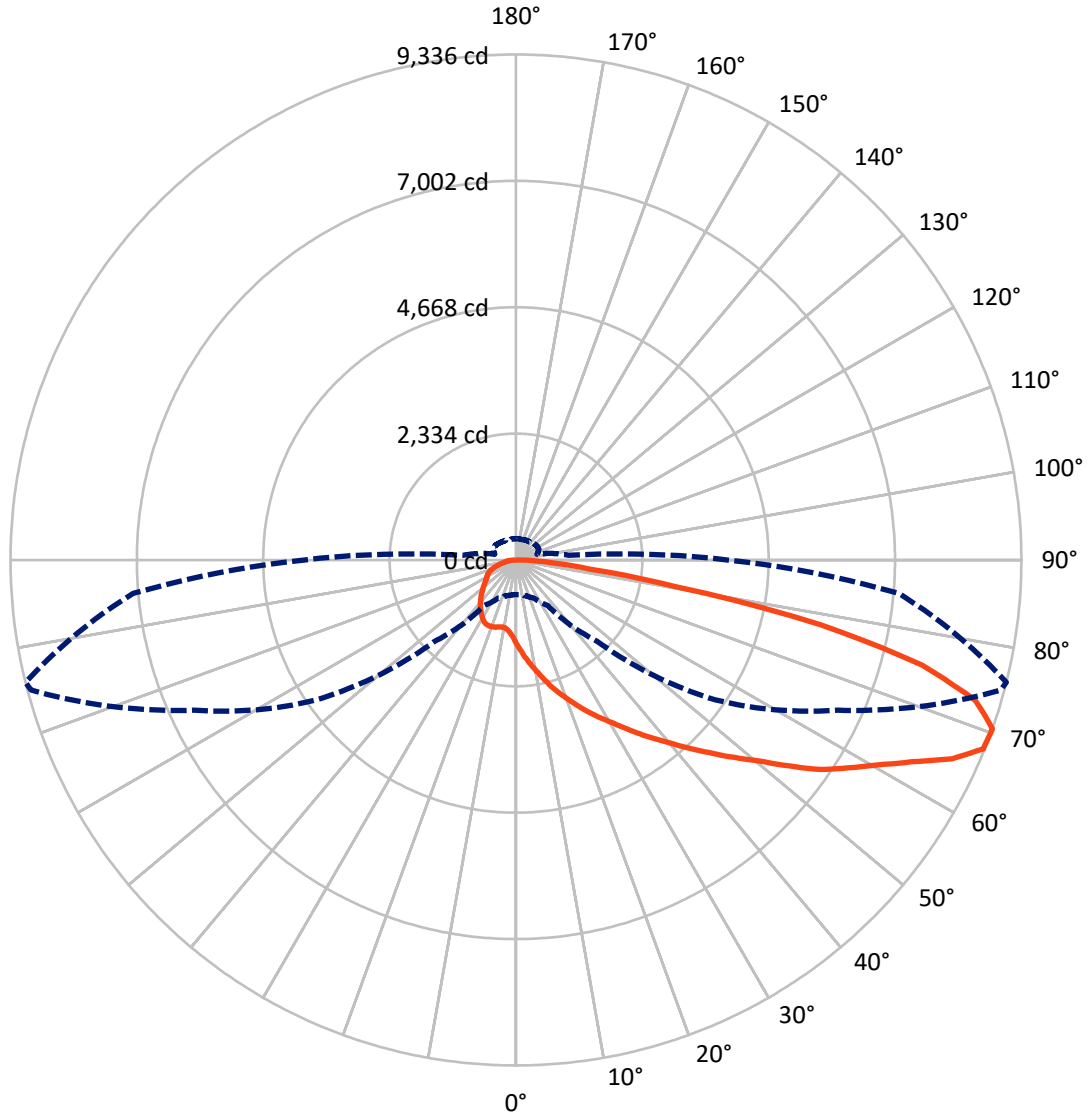
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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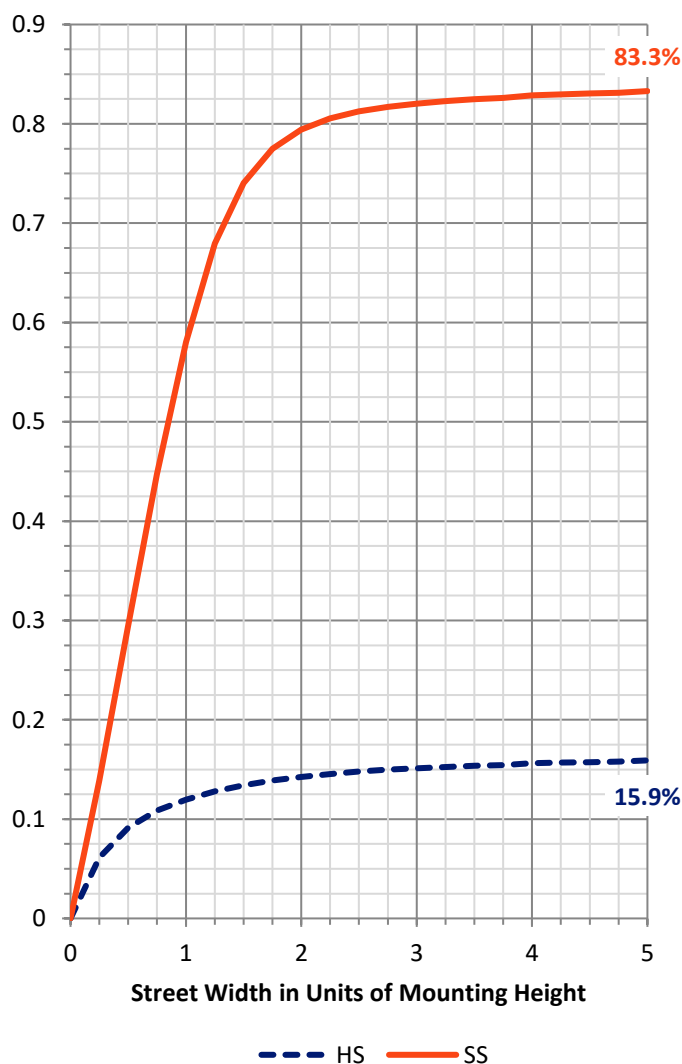
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.8	0.0	2021.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10362.2	0.0	10362.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	12384.0	0.0	12384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.3
10°-20°	546.9	4.4
20°-30°	978.5	7.9
30°-40°	1582.8	12.8
40°-50°	2289.8	18.5
50°-60°	2620.8	21.2
60°-70°	2410.8	19.5
70°-80°	1490.8	12.0
80°-90°	302.7	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°	12384.0	100.0
0°-180°	12384.0	100.0

Coefficient of Utilization

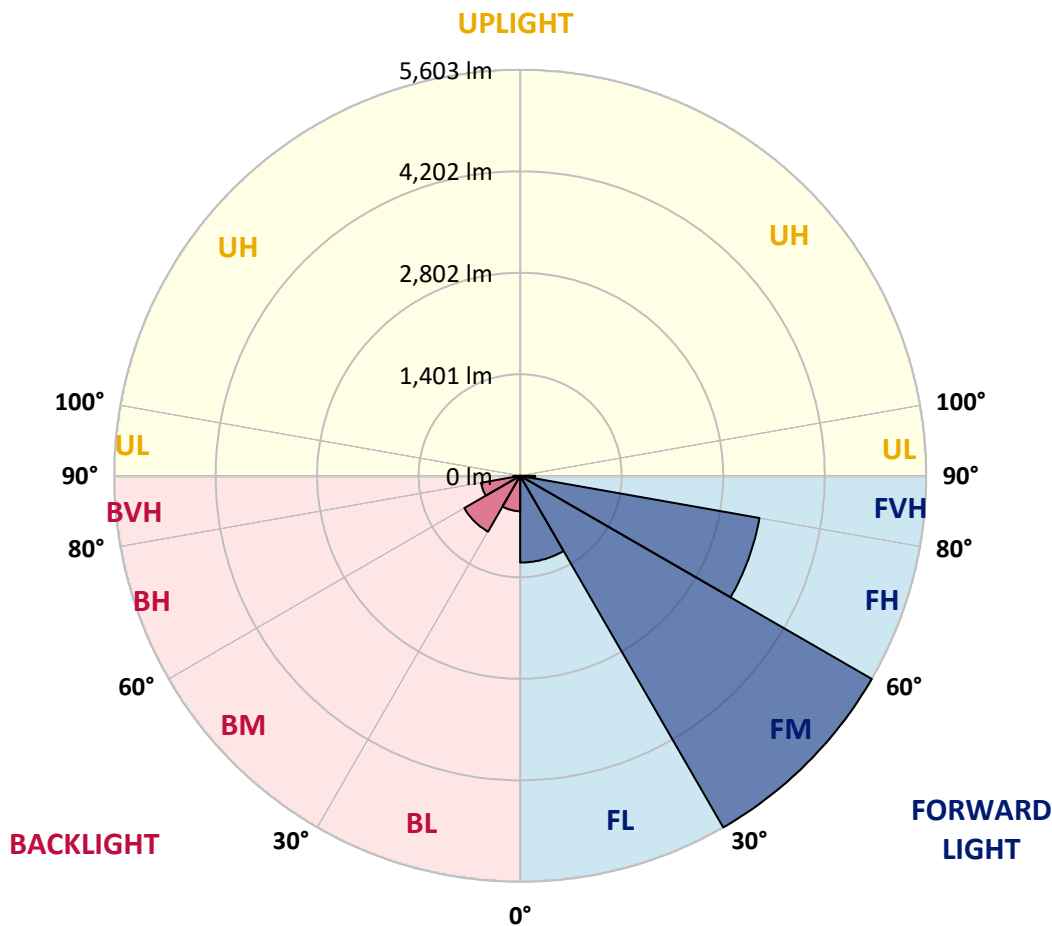


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.9	9.7			
FM (30°-60°)	5603.2	45.2			
FH (60°-80°)	3353.2	27.1			G2/5000
FVH (80°-90°)	207.8	1.7			G2/225
BL (0°-30°)	488.3	3.9	B1/500		
BM (30°-60°)	890.2	7.2	B1/1000		
BH (60°-80°)	548.4	4.4	B2/1000		G2/1000
BVH (80°-90°)	94.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1973.7	1959.0	1957.4	1934.6	1913.4	1856.5	1815.7	1744.1	1672.4	1670.8	1599.2
5°	2281.5	2266.8	2258.7	2231.0	2195.2	2120.3	2047.0	1936.2	1814.1	1806.0	1670.8
7.5°	2489.9	2476.9	2460.6	2449.2	2415.0	2348.2	2258.7	2126.8	1959.0	1942.8	1753.9
10°	2630.0	2621.8	2618.6	2610.4	2589.3	2535.5	2449.2	2309.2	2104.0	2086.1	1841.8
12.5°	2690.2	2687.0	2701.6	2724.4	2732.6	2711.4	2628.3	2496.4	2263.6	2244.0	1947.6
15°	2620.2	2623.5	2660.9	2739.1	2822.1	2867.7	2818.9	2690.2	2444.3	2416.6	2071.4
17.5°	2587.6	2592.5	2618.6	2693.5	2810.7	2952.4	2975.2	2874.2	2618.6	2579.5	2201.7
20°	2644.6	2651.1	2670.7	2729.3	2810.7	2962.2	3081.1	3050.1	2789.6	2748.9	2327.1
22.5°	2789.6	2797.7	2796.1	2833.5	2888.9	2993.1	3139.7	3216.2	2968.7	2923.1	2457.4
25°	3099.0	3092.5	3037.1	3019.2	3033.8	3100.6	3217.9	3375.8	3156.0	3110.4	2594.1
27.5°	3519.1	3511.0	3410.0	3318.8	3237.4	3266.7	3328.6	3504.5	3346.5	3294.4	2724.4
30°	3968.6	3958.8	3841.6	3693.4	3512.6	3470.3	3462.1	3616.8	3538.7	3483.3	2862.8
32.5°	4406.6	4398.5	4273.1	4100.5	3851.3	3724.3	3646.1	3742.2	3756.9	3703.1	3014.3
35°	4805.6	4805.6	4698.1	4492.9	4211.2	4019.1	3890.4	3896.9	4007.7	3945.8	3186.9
37.5°	5160.6	5159.0	5041.7	4839.8	4569.5	4349.6	4190.0	4084.2	4247.0	4193.3	3367.7
40°	5442.3	5430.9	5344.6	5168.8	4896.8	4678.6	4517.4	4304.0	4514.1	4465.3	3559.8
42.5°	5647.5	5641.0	5582.4	5429.3	5170.4	4965.2	4854.5	4580.9	4817.0	4768.2	3784.6
45°	5727.3	5740.3	5740.3	5595.4	5390.2	5203.0	5154.1	4885.4	5144.3	5095.5	4025.6
47.5°	5598.7	5632.9	5702.9	5712.7	5531.9	5404.9	5421.2	5191.6	5481.4	5455.4	4289.4
50°	5196.4	5259.9	5413.0	5689.9	5588.9	5559.6	5649.2	5504.2	5842.9	5834.8	4610.2
52.5°	4159.1	4313.8	4791.0	5287.6	5549.8	5631.2	5875.5	5856.0	6308.7	6321.7	5028.7
55°	3190.2	3248.8	3800.8	4646.0	5310.4	5608.4	6027.0	6199.6	6813.5	6829.8	5413.0
57.5°	2579.5	2618.6	2919.8	3800.8	4764.9	5484.7	6145.8	6399.9	7201.1	7243.4	5755.0
60°	2043.7	2100.7	2302.7	2908.4	4001.1	5186.7	6228.9	6623.0	7618.0	7681.5	6163.7
62.5°	1519.4	1547.0	1737.6	2154.5	3167.4	4650.9	6184.9	6865.6	8129.3	8205.8	6655.5
65°	1081.3	1105.7	1240.9	1532.4	2341.7	3926.2	5929.2	7046.4	8770.9	8849.1	7150.6
67.5°	809.3	819.1	895.7	1071.5	1578.0	3050.1	5411.4	7015.4	9239.9	9309.9	7349.3
70°	640.0	643.2	680.7	775.2	1025.9	2123.5	4504.3	6561.1	9274.1	9336.0	7098.5
72.5°	530.9	529.3	550.4	596.0	714.9	1343.5	3336.7	5717.5	8834.4	8876.8	6398.2
75°	438.1	441.3	456.0	482.0	545.5	885.9	2162.6	4561.3	7793.8	7748.2	5369.1
77.5°	368.0	366.4	372.9	395.7	441.3	636.7	1266.9	3296.0	5776.2	5753.4	3524.0
80°	296.4	299.6	309.4	329.0	371.3	485.3	749.1	2056.8	3099.0	3015.9	1683.8
82.5°	198.7	229.6	249.2	272.0	320.8	358.3	475.5	1045.5	1385.8	1364.7	763.8
85°	94.5	125.4	185.6	211.7	260.6	224.7	322.4	498.3	693.7	685.6	275.2
87.5°	19.5	19.5	99.3	118.9	161.2	96.1	179.1	216.6	335.5	314.3	112.4
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°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1556.8	1512.8	1424.9	1354.9	1283.2	1242.5	1192.0	1167.6	1162.7	1149.7	1159.5
5°	1584.5	1498.2	1332.1	1223.0	1149.7	1113.9	1096.0	1089.4	1087.8	1084.6	1084.6
7.5°	1622.0	1490.0	1273.5	1162.7	1115.5	1104.1	1109.0	1118.8	1120.4	1123.6	1122.0
10°	1667.6	1491.7	1240.9	1148.1	1125.3	1126.9	1143.2	1156.2	1162.7	1167.6	1166.0
12.5°	1731.1	1511.2	1236.0	1157.8	1148.1	1154.6	1170.9	1183.9	1190.4	1192.0	1192.0
15°	1814.1	1551.9	1247.4	1179.0	1170.9	1175.8	1185.5	1190.4	1192.0	1190.4	1190.4
17.5°	1905.3	1600.8	1263.7	1192.0	1179.0	1174.1	1170.9	1166.0	1156.2	1149.7	1149.7
20°	1993.2	1644.8	1271.8	1190.4	1167.6	1148.1	1128.5	1104.1	1087.8	1074.8	1074.8
22.5°	2081.2	1685.5	1271.8	1172.5	1136.7	1099.2	1058.5	1019.4	995.0	978.7	978.7
25°	2174.0	1724.5	1262.1	1141.6	1087.8	1034.1	978.7	929.9	905.4	889.1	885.9
27.5°	2252.2	1747.3	1236.0	1097.6	1027.6	959.2	895.7	845.2	827.3	812.6	812.6
30°	2335.2	1762.0	1187.2	1040.6	959.2	881.0	815.9	775.2	755.6	734.4	732.8
32.5°	2428.0	1771.8	1131.8	980.3	889.1	806.1	750.7	718.2	675.8	653.0	649.8
35°	2535.5	1784.8	1073.2	911.9	819.1	744.2	711.6	657.9	617.2	597.6	596.0
37.5°	2649.5	1794.6	1009.6	851.7	755.6	703.5	670.9	607.4	571.6	542.3	539.0
40°	2770.0	1794.6	944.5	793.1	705.1	685.6	623.7	566.7	506.5	491.8	488.5
42.5°	2903.6	1791.3	879.4	736.1	657.9	644.9	596.0	535.8	504.8	491.8	488.5
45°	3045.2	1779.9	817.5	670.9	609.0	583.0	545.5	529.3	516.2	516.2	516.2
47.5°	3206.5	1770.1	747.5	612.3	573.2	543.9	516.2	506.5	504.8	509.7	514.6
50°	3413.3	1766.9	688.8	570.0	545.5	511.3	508.1	499.9	501.6	501.6	501.6
52.5°	3664.1	1737.6	633.5	539.0	517.9	477.1	486.9	495.1	498.3	496.7	495.1
55°	3848.1	1685.5	586.2	517.9	498.3	464.1	477.1	490.2	493.4	488.5	488.5
57.5°	4014.2	1612.2	548.8	501.6	485.3	456.0	470.6	483.7	480.4	478.8	477.1
60°	4204.7	1542.2	519.5	493.4	472.3	452.7	465.7	473.9	469.0	465.7	464.1
62.5°	4411.5	1473.8	498.3	493.4	462.5	451.1	460.9	464.1	454.3	451.1	451.1
65°	4507.6	1366.3	475.5	493.4	457.6	447.8	451.1	447.8	438.1	438.1	436.4
67.5°	4349.6	1188.8	446.2	486.9	464.1	442.9	436.4	431.5	420.1	420.1	416.9
70°	3913.2	977.1	403.9	465.7	465.7	441.3	416.9	405.5	392.5	397.3	390.8
72.5°	3343.2	775.2	351.7	429.9	456.0	439.7	395.7	377.8	366.4	371.3	361.5
75°	2708.1	600.9	289.9	372.9	431.5	431.5	374.5	350.1	337.1	337.1	325.7
77.5°	1726.2	444.6	236.1	309.4	387.6	420.1	356.6	319.2	299.6	294.8	286.6
80°	854.9	312.7	193.8	245.9	330.6	394.1	343.6	283.4	255.7	245.9	231.2
82.5°	454.3	216.6	154.7	192.2	263.8	355.0	327.3	244.3	210.1	195.4	179.1
85°	203.6	133.5	123.8	146.6	200.3	291.5	294.8	200.3	161.2	192.2	141.7
87.5°	74.9	60.3	60.3	74.9	115.6	122.1	208.4	128.6	102.6	70.0	55.4
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)