

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: P236838

Luminaire Tested: **ARCH-L-AF72-250-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-250-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27501.6 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

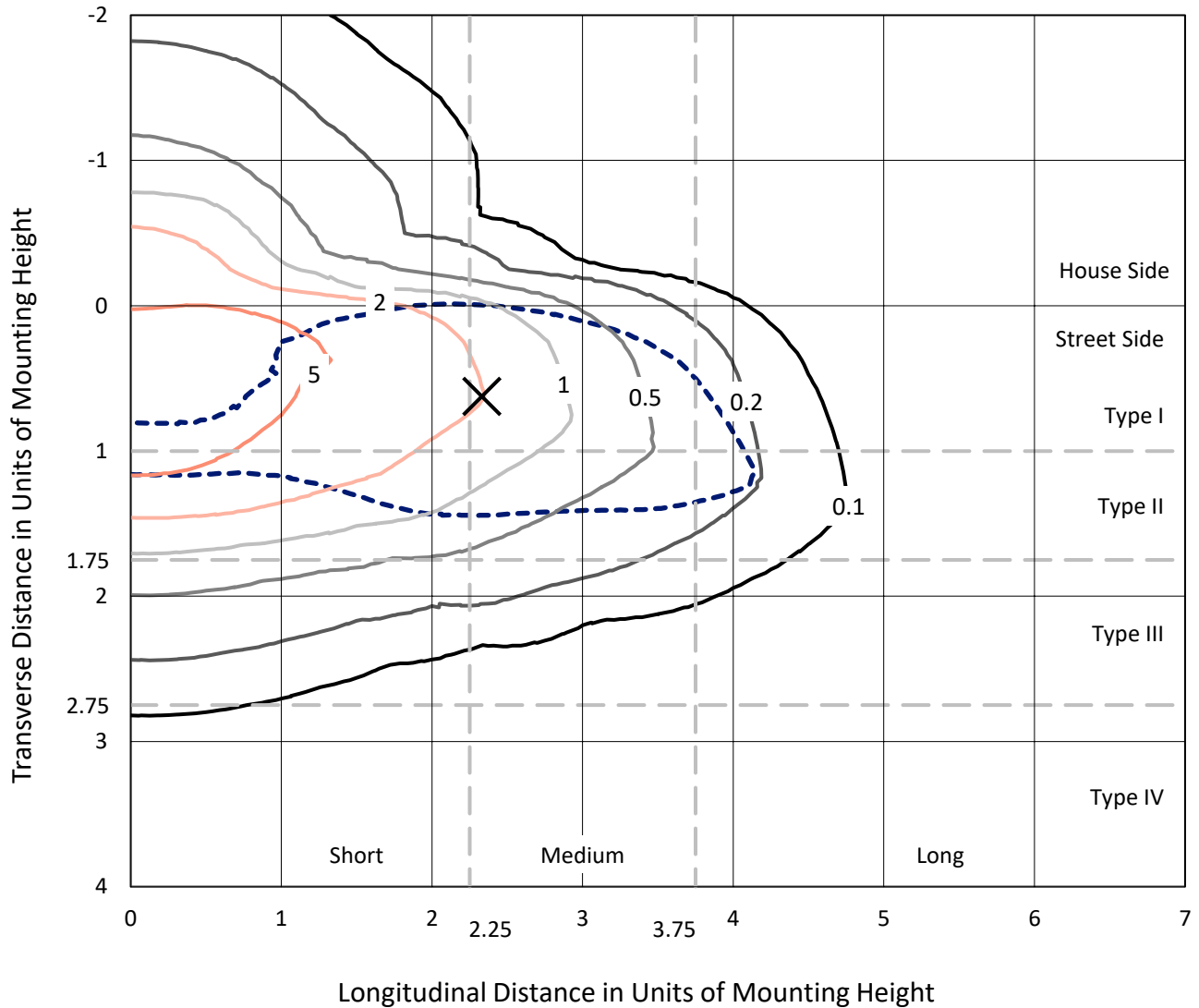
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

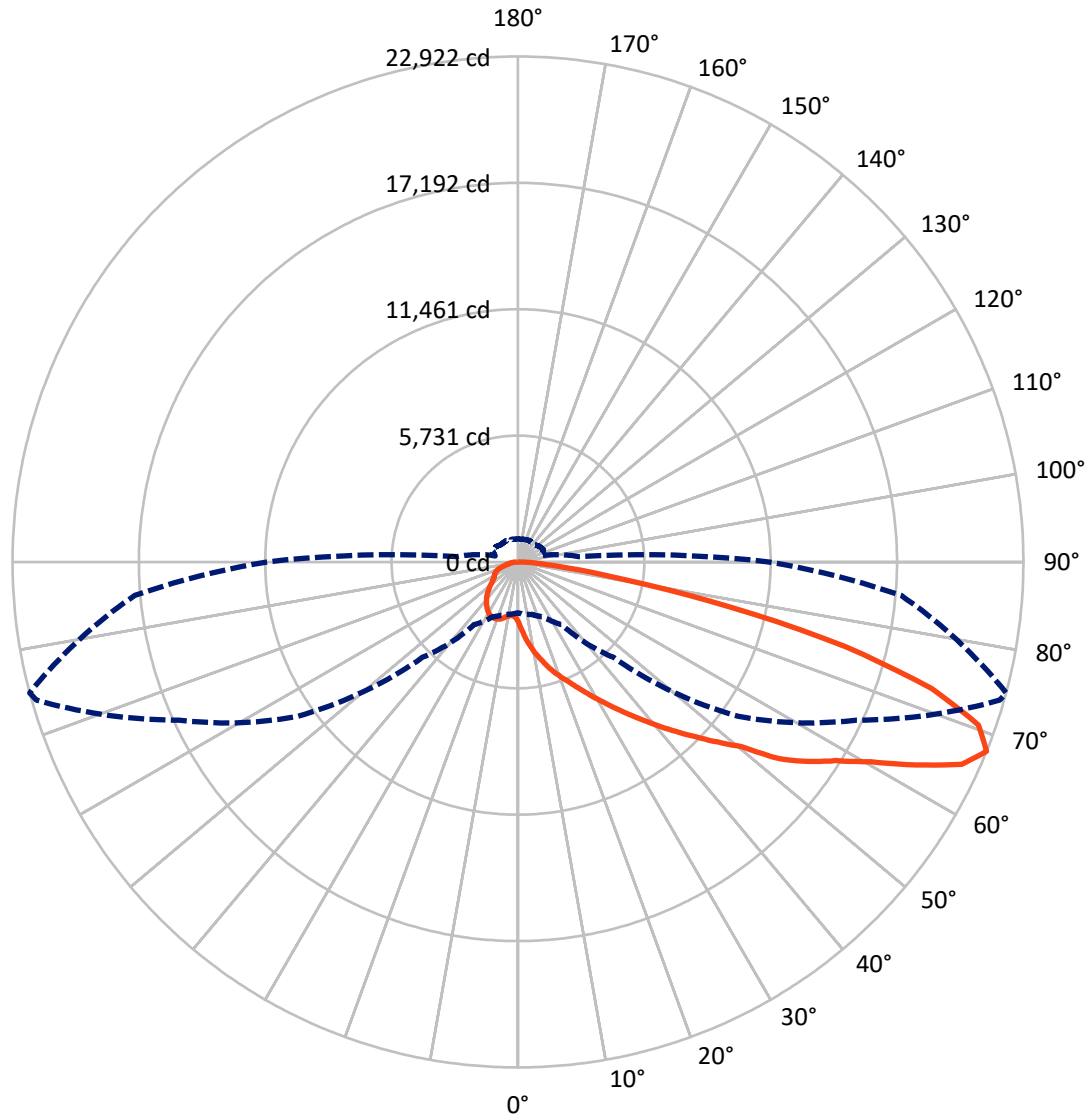
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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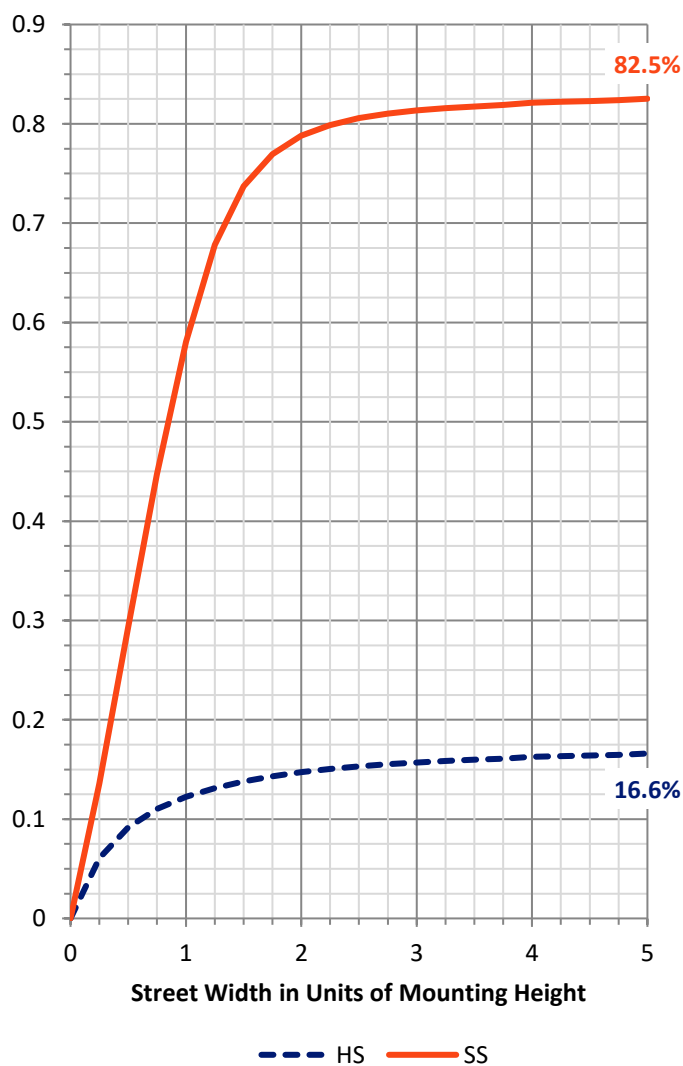
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4696.3	0.0	4696.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22805.4	0.0	22805.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	27501.6	0.0	27501.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	1.2
10°-20°	1157.0	4.2
20°-30°	2110.2	7.7
30°-40°	3463.8	12.6
40°-50°	5009.1	18.2
50°-60°	5903.2	21.5
60°-70°	5736.5	20.9
70°-80°	3188.7	11.6
80°-90°	613.1	2.2
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°	27501.6	100.0
0°-180°	27501.6	100.0

Coefficient of Utilization



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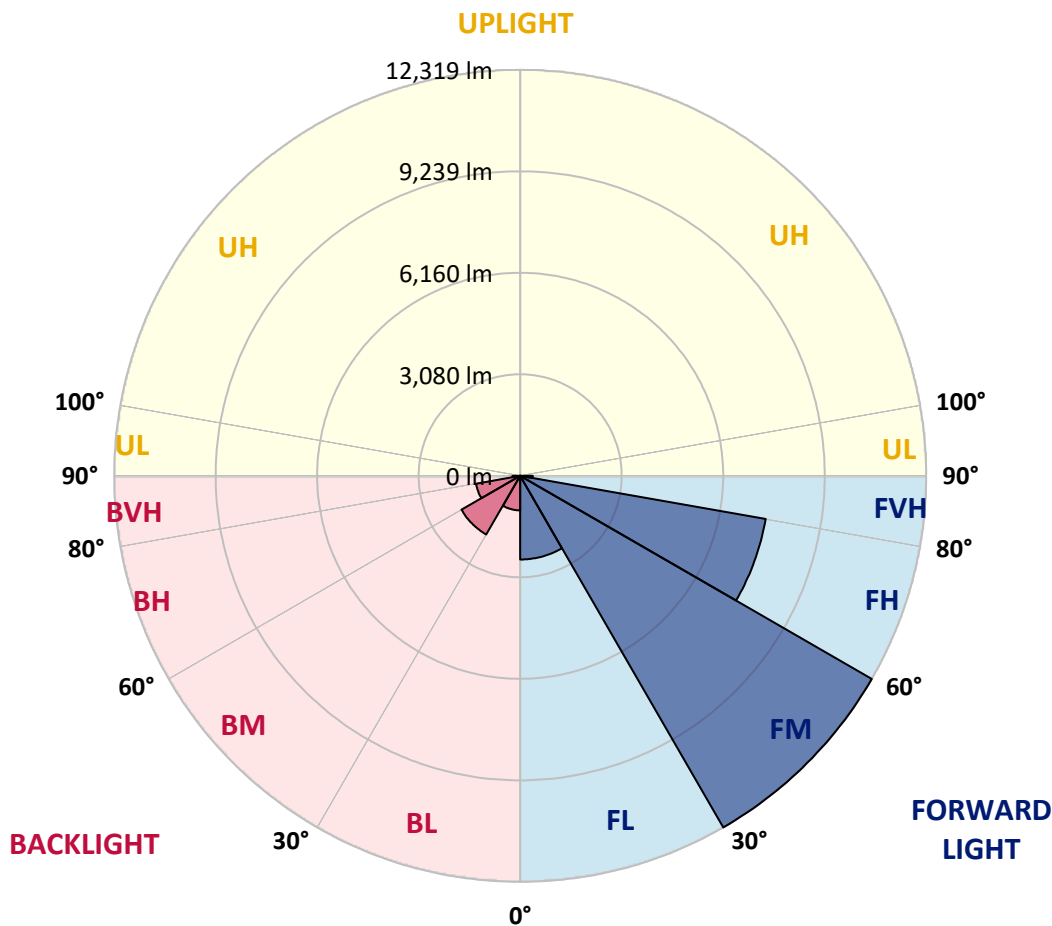
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2539.1	9.2			
FM (30°-60°)	12319.3	44.8			
FH (60°-80°)	7565.4	27.5			G4/12000
FVH (80°-90°)	381.6	1.4			G3/500
BL (0°-30°)	1048.2	3.8	B3/2500		
BM (30°-60°)	2056.7	7.5	B2/2500		
BH (60°-80°)	1359.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	231.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	3863.5	3875.0	3852.1	3800.2	3725.5	3587.5	3466.8	3254.1	3064.4	3041.3	2840.0
5°	4541.9	4553.4	4524.7	4461.4	4381.0	4231.4	4064.8	3788.8	3484.1	3426.6	3001.2
7.5°	5007.6	5013.4	4978.8	4915.6	4852.3	4702.8	4536.1	4225.7	3852.1	3806.0	3208.1
10°	5404.3	5415.8	5369.8	5329.5	5260.7	5111.0	4938.6	4610.8	4225.7	4162.4	3420.8
12.5°	5772.2	5783.7	5755.0	5720.5	5697.6	5559.5	5369.8	4978.8	4564.9	4495.9	3673.8
15°	6019.4	6031.0	6036.7	6082.7	6111.4	6013.7	5823.9	5398.5	4932.8	4869.5	3972.7
17.5°	5950.5	5979.2	6065.4	6232.1	6410.5	6416.1	6260.9	5812.5	5295.0	5226.1	4277.4
20°	5749.2	5772.2	5875.8	6128.7	6479.4	6680.6	6669.0	6232.1	5634.3	5559.5	4559.2
22.5°	5916.0	5944.7	5944.7	6100.0	6444.8	6818.7	6968.1	6646.1	5973.4	5904.5	4840.8
25°	6628.9	6646.1	6525.4	6462.1	6588.7	6933.6	7215.3	7094.5	6387.4	6306.9	5145.6
27.5°	7623.4	7594.7	7445.3	7192.3	7054.4	7146.3	7433.8	7520.0	6864.6	6766.9	5461.8
30°	8612.4	8595.1	8422.7	8083.4	7773.0	7577.4	7675.3	7899.5	7382.0	7267.1	5766.4
32.5°	9538.0	9509.3	9319.5	8922.8	8572.2	8210.0	8020.1	8244.3	7934.0	7801.7	6105.7
35°	10388.9	10314.2	10124.4	9710.5	9348.3	9003.3	8537.6	8572.2	8531.8	8394.0	6479.4
37.5°	11078.8	11021.3	10814.4	10429.2	10043.9	9716.2	9227.5	8945.8	9175.8	9043.6	6910.6
40°	11688.2	11624.9	11412.2	11027.1	10670.6	10360.2	9975.0	9400.0	9900.2	9750.8	7393.6
42.5°	12148.2	12102.2	11929.7	11550.3	11205.3	10923.5	10733.8	9975.0	10653.4	10509.6	7922.5
45°	12395.4	12349.3	12257.4	11952.6	11636.4	11418.0	11435.3	10659.2	11441.0	11320.3	8549.1
47.5°	12090.6	12125.1	12205.7	12148.2	11952.6	11849.1	12061.9	11366.2	12320.6	12205.7	9227.5
50°	11274.3	11308.8	11630.7	12027.5	12096.4	12223.0	12625.4	12182.6	13252.0	13160.1	10066.9
52.5°	9267.8	9457.5	10348.6	11297.3	11947.0	12470.1	13252.0	13395.7	14821.6	14821.6	11550.3
55°	7002.5	7169.3	8186.9	9842.7	11366.2	12493.1	13711.9	14217.9	15954.1	15977.2	12326.4
57.5°	5674.5	5777.9	6278.1	7974.2	10147.5	12205.7	14258.2	14925.1	16897.1	17000.5	13326.8
60°	4605.2	4662.6	4990.3	6169.0	8462.9	11429.5	14649.1	15936.9	18242.4	18386.1	14603.0
62.5°	3702.5	3760.0	3978.4	4685.6	6640.3	9975.0	14580.1	16989.0	20036.2	20271.9	16276.2
65°	2955.1	3018.4	3162.1	3599.0	4921.4	8169.7	13872.9	17529.4	21893.2	22123.2	17385.8
67.5°	2305.5	2363.0	2460.6	2748.1	3466.8	6111.4	12199.9	16960.4	22726.8	22922.3	17443.2
70°	1742.0	1770.8	1851.3	2035.3	2477.9	4059.0	9549.5	15051.5	21979.3	22157.6	16293.4
72.5°	1351.1	1345.3	1391.3	1483.3	1730.5	2794.1	6329.9	12240.1	19432.5	19616.4	13901.7
75°	1103.8	1098.0	1126.9	1155.6	1253.3	1874.3	3737.0	9216.0	15683.9	15333.2	10429.2
77.5°	931.3	925.7	954.4	960.2	1000.4	1293.6	2127.2	6065.4	10463.6	9860.0	5875.8
80°	787.6	781.9	816.3	827.8	856.6	948.6	1224.6	3282.8	5254.9	4978.8	2805.7
82.5°	592.1	615.1	678.4	707.1	741.7	701.5	759.0	1448.8	2437.7	2328.5	1218.8
85°	287.5	339.2	511.7	569.1	609.4	442.7	517.5	684.2	1098.0	1046.3	494.4
87.5°	97.8	86.2	304.8	362.2	396.7	201.2	287.5	379.4	454.2	414.0	155.2
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°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2753.9	2667.7	2541.2	2443.5	2380.2	2328.5	2305.5	2299.7	2288.2	2282.4	2282.4
5°	2811.3	2656.2	2460.6	2357.2	2328.5	2305.5	2317.0	2322.8	2322.8	2322.8	2322.8
7.5°	2897.7	2679.1	2443.5	2374.4	2368.7	2368.7	2403.1	2420.4	2431.9	2431.9	2431.9
10°	3012.6	2719.4	2472.2	2414.7	2431.9	2443.5	2483.7	2506.6	2518.2	2523.9	2529.7
12.5°	3167.9	2805.7	2529.7	2483.7	2506.6	2512.4	2541.2	2552.7	2564.2	2569.9	2569.9
15°	3374.8	2932.1	2621.6	2564.2	2569.9	2564.2	2564.2	2552.7	2547.0	2547.0	2558.5
17.5°	3587.5	3052.8	2702.2	2621.6	2598.6	2552.7	2518.2	2489.5	2472.2	2460.6	2466.4
20°	3800.2	3162.1	2748.1	2633.1	2569.9	2495.2	2431.9	2391.6	2368.7	2345.7	2357.2
22.5°	4013.0	3265.5	2765.4	2598.6	2506.6	2397.4	2328.5	2265.2	2213.5	2178.9	2184.7
25°	4248.6	3380.6	2765.4	2558.5	2420.4	2305.5	2219.2	2115.7	2041.0	2012.2	2023.7
27.5°	4484.4	3478.3	2736.6	2483.7	2322.8	2207.7	2081.3	1960.5	1914.5	1897.3	1903.0
30°	4720.1	3553.0	2673.3	2391.6	2219.2	2092.8	1926.0	1845.5	1788.0	1742.0	1747.8
32.5°	4955.9	3604.8	2587.2	2276.8	2110.1	1948.9	1811.0	1718.9	1615.5	1558.0	1563.8
35°	5226.1	3645.0	2483.7	2161.7	1989.3	1822.6	1718.9	1569.5	1460.4	1414.4	1402.8
37.5°	5507.8	3673.8	2374.4	2035.3	1868.6	1730.5	1627.1	1443.1	1339.6	1276.3	1270.5
40°	5812.5	3685.4	2242.2	1903.0	1753.5	1673.0	1506.3	1368.4	1190.1	1149.9	1149.9
42.5°	6174.7	3679.6	2110.1	1770.8	1627.1	1540.8	1420.1	1356.8	1201.7	1161.3	1138.4
45°	6588.7	3679.6	1966.2	1615.5	1500.5	1374.1	1322.4	1282.0	1178.6	1195.9	1207.4
47.5°	7060.2	3668.1	1793.8	1489.1	1397.1	1287.8	1259.1	1172.9	1132.6	1144.1	1155.6
50°	7709.8	3685.4	1638.6	1385.5	1322.4	1230.4	1195.9	1149.9	1132.6	1138.4	1132.6
52.5°	8612.4	3627.7	1489.1	1322.4	1264.7	1144.1	1144.1	1138.4	1144.1	1138.4	1138.4
55°	9106.8	3501.3	1379.8	1287.8	1224.6	1103.8	1126.9	1138.4	1149.9	1144.1	1144.1
57.5°	9808.2	3415.0	1293.6	1264.7	1201.7	1092.4	1115.3	1138.4	1144.1	1138.4	1138.4
60°	10636.1	3357.5	1236.0	1270.5	1184.4	1092.4	1121.1	1138.4	1132.6	1126.9	1126.9
62.5°	11596.2	3334.6	1195.9	1287.8	1167.1	1098.0	1121.1	1138.4	1115.3	1109.6	1109.6
65°	11958.4	3127.5	1144.1	1299.3	1178.6	1098.0	1115.3	1121.1	1092.4	1086.6	1080.9
67.5°	11400.7	2771.2	1069.3	1276.3	1213.1	1098.0	1098.0	1092.4	1057.8	1052.1	1040.5
70°	10153.1	2299.7	954.4	1201.7	1236.0	1103.8	1075.1	1046.3	1011.8	1011.8	988.9
72.5°	8313.4	1811.0	804.9	1069.3	1218.8	1121.1	1029.1	988.9	948.6	948.6	925.7
75°	5990.6	1351.1	643.9	891.1	1144.1	1115.3	971.7	919.9	873.8	868.2	839.4
77.5°	3415.0	948.6	523.2	695.7	1017.6	1086.6	919.9	839.4	787.6	770.4	753.2
80°	1753.5	638.2	425.4	546.2	845.1	1006.2	879.6	747.5	689.9	661.1	632.4
82.5°	833.6	425.4	327.7	402.4	638.2	879.6	827.8	643.9	580.7	546.2	511.7
85°	373.6	252.9	218.5	258.7	454.2	684.2	730.2	529.0	454.2	569.1	419.7
87.5°	120.7	114.9	114.9	120.7	218.5	299.0	534.8	390.9	362.2	299.0	252.9
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)