

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: P400345

Luminaire Tested: **ARCH-L-PA3-270-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400345
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-PA3-270-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29719 lumens
Efficiency: N/A
Efficacy: 108.9 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

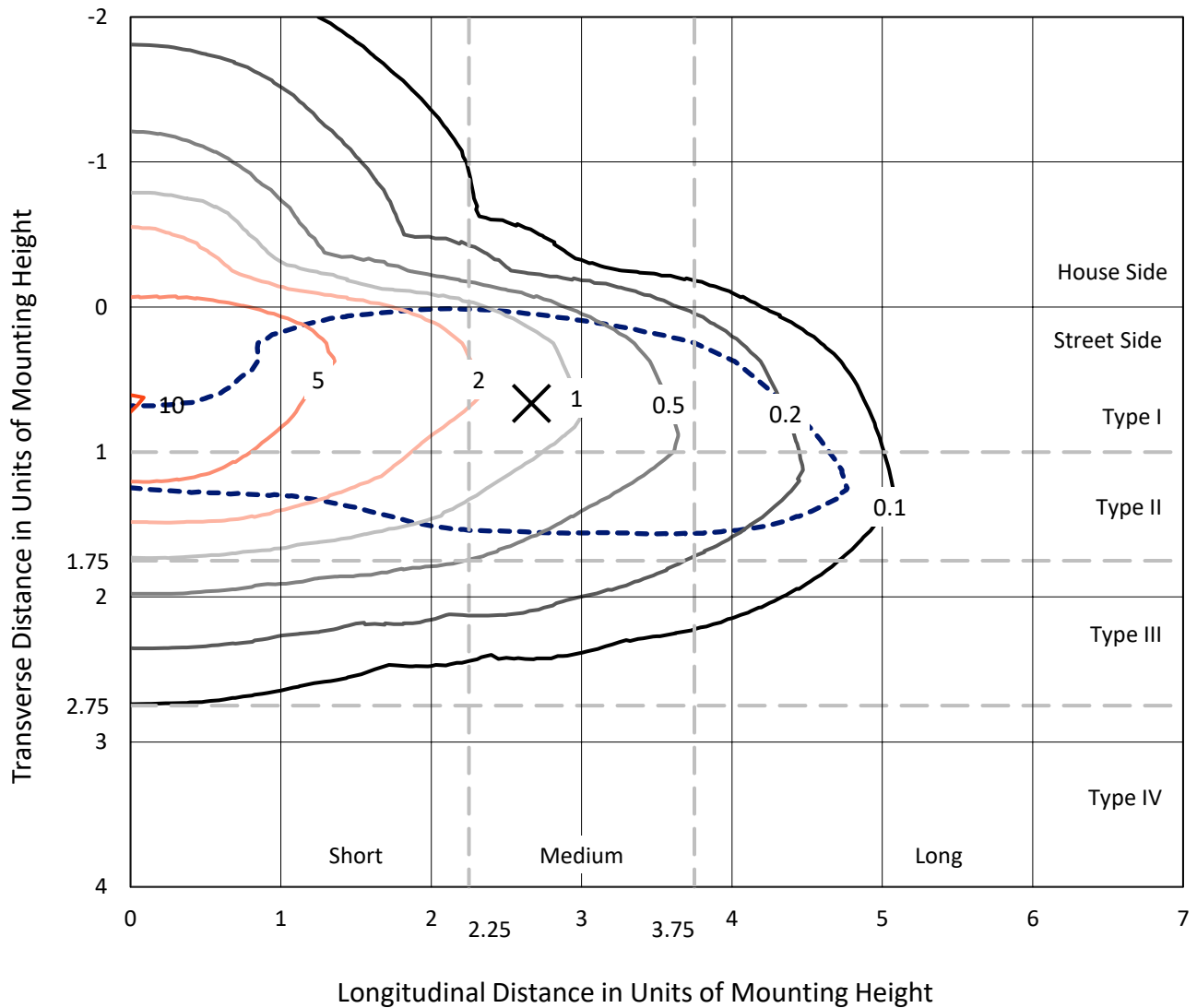
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

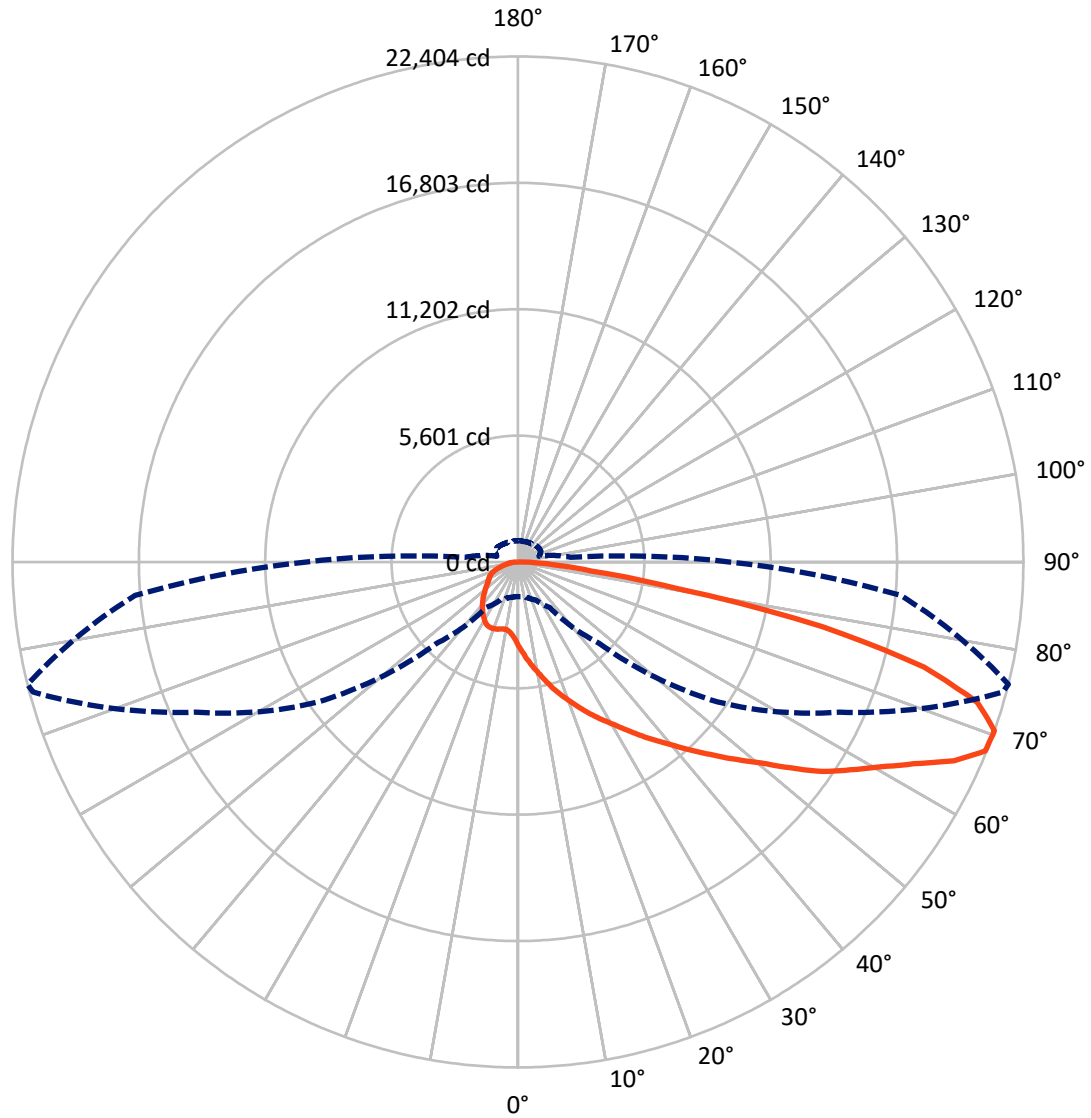
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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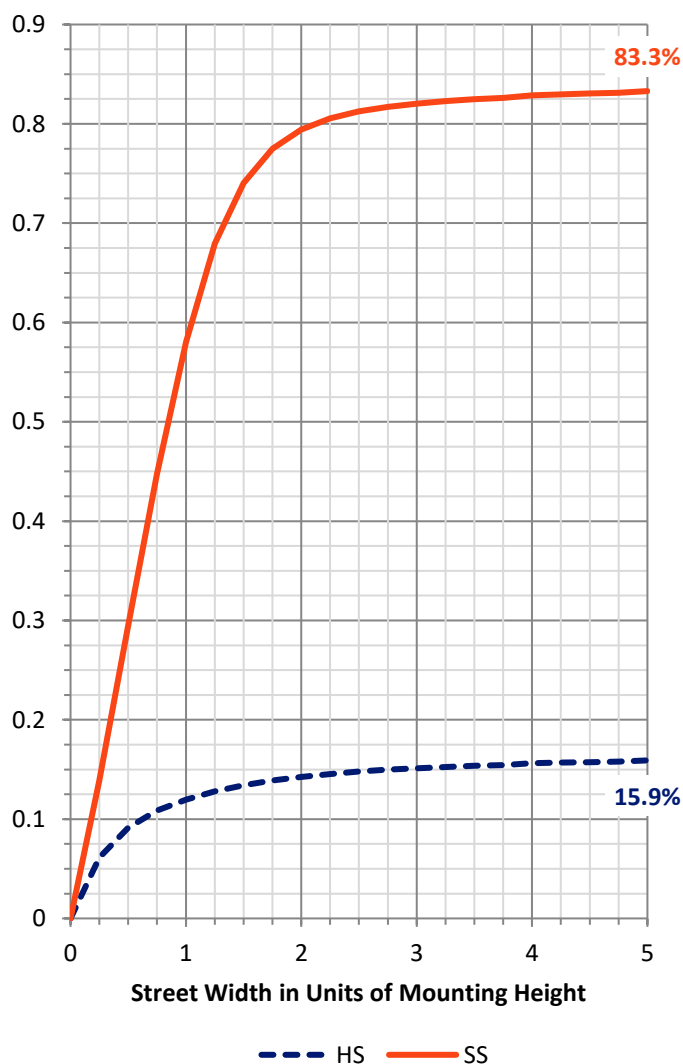
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4851.9	0.0	4851.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	24867.1	0.0	24867.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	29719.0	0.0	29719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.3
10°-20°	1312.4	4.4
20°-30°	2348.1	7.9
30°-40°	3798.4	12.8
40°-50°	5495.0	18.5
50°-60°	6289.3	21.2
60°-70°	5785.5	19.5
70°-80°	3577.6	12.0
80°-90°	726.5	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°	29719.0	100.0
0°-180°	29719.0	100.0

Coefficient of Utilization



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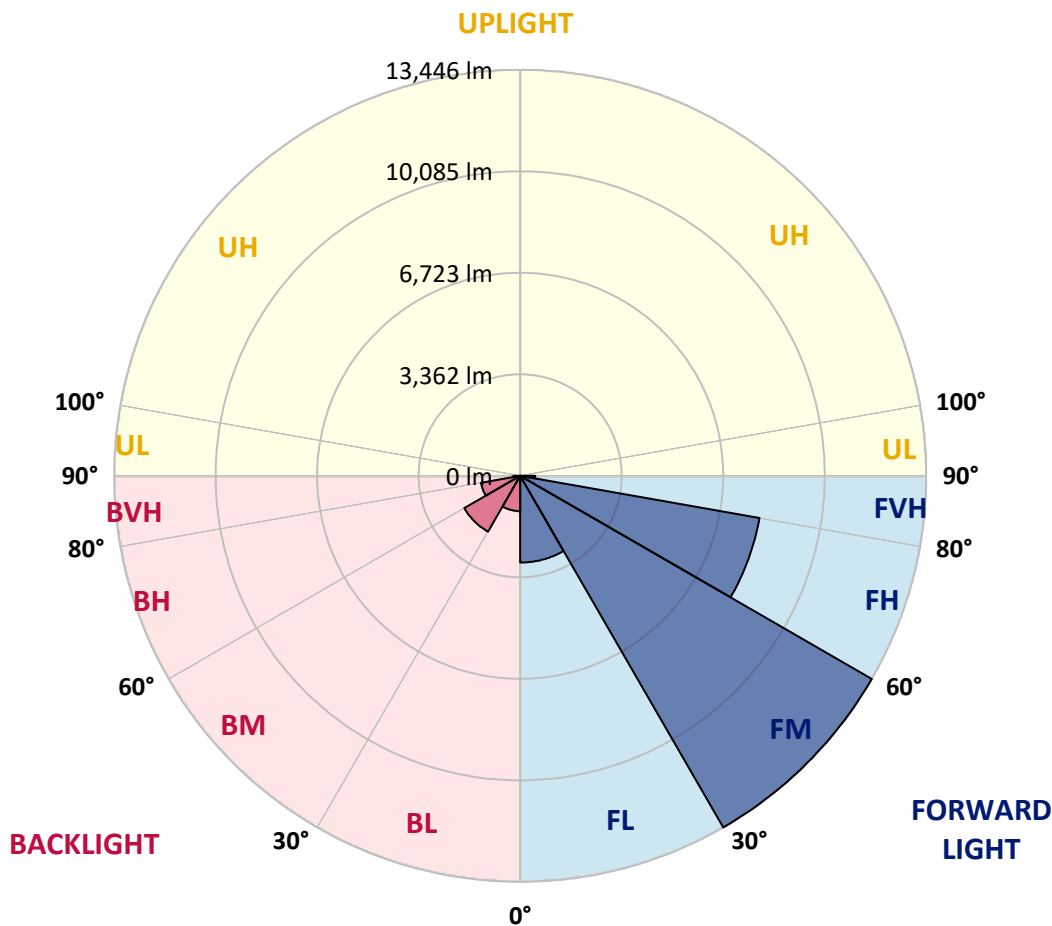
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.8	9.7			
FM (30°-60°)	13446.4	45.2			
FH (60°-80°)	8047.1	27.1			G4/12000
FVH (80°-90°)	498.7	1.7			G3/500
BL (0°-30°)	1171.9	3.9	B3/2500		
BM (30°-60°)	2136.3	7.2	B2/2500		
BH (60°-80°)	1316.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	227.8	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°	75°	76°	85°
0°	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5
2.5°	4736.5	4701.3	4697.4	4642.7	4591.9	4455.1	4357.4	4185.4	4013.5	4009.6	3837.6
5°	5475.1	5439.9	5420.4	5353.9	5268.0	5088.2	4912.3	4646.6	4353.5	4333.9	4009.6
7.5°	5975.3	5944.0	5905.0	5877.6	5795.5	5635.3	5420.4	5103.8	4701.3	4662.2	4208.9
10°	6311.4	6291.8	6284.0	6264.5	6213.7	6084.7	5877.6	5541.5	5049.1	5006.1	4419.9
12.5°	6456.0	6448.2	6483.3	6538.0	6557.6	6506.8	6307.5	5990.9	5432.1	5385.2	4673.9
15°	6287.9	6295.8	6385.6	6573.2	6772.5	6882.0	6764.7	6456.0	5865.9	5799.4	4970.9
17.5°	6209.8	6221.5	6284.0	6463.8	6745.2	7085.2	7139.9	6897.6	6284.0	6190.2	5283.6
20°	6346.6	6362.2	6409.1	6549.8	6745.2	7108.6	7393.9	7319.6	6694.4	6596.7	5584.5
22.5°	6694.4	6713.9	6710.0	6799.9	6932.8	7182.9	7534.6	7718.3	7124.2	7014.8	5897.1
25°	7436.9	7421.3	7288.4	7245.4	7280.6	7440.8	7722.2	8101.2	7573.7	7464.2	6225.4
27.5°	8445.1	8425.6	8183.3	7964.5	7769.1	7839.4	7987.9	8410.0	8030.9	7905.8	6538.0
30°	9523.7	9500.3	9218.9	8863.3	8429.5	8327.9	8308.4	8679.6	8492.0	8359.2	6870.2
32.5°	10575.0	10555.5	10254.5	9840.3	9242.4	8937.5	8750.0	8980.5	9015.7	8886.7	7233.7
35°	11532.4	11532.4	11274.5	10782.1	10106.0	9644.9	9336.2	9351.8	9617.5	9469.0	7647.9
37.5°	12384.4	12380.5	12099.1	11614.5	10965.8	10438.2	10055.2	9801.2	10192.0	10063.0	8081.7
40°	13060.5	13033.1	12826.0	12403.9	11751.3	11227.6	10840.7	10328.8	10832.9	10715.7	8542.8
42.5°	13552.9	13537.2	13396.6	13029.2	12407.8	11915.4	11649.7	10993.1	11559.8	11442.6	9082.1
45°	13744.4	13775.6	13775.6	13427.8	12935.4	12486.0	12368.8	11723.9	12345.3	12228.1	9660.5
47.5°	13435.6	13517.7	13685.7	13709.2	13275.4	12970.6	13009.7	12458.6	13154.3	13091.7	10293.6
50°	12470.4	12622.8	12990.1	13654.5	13412.2	13341.8	13556.8	13209.0	14021.8	14002.3	11063.5
52.5°	9981.0	10352.2	11497.3	12689.2	13318.4	13513.8	14100.0	14053.1	15139.5	15170.8	12067.8
55°	7655.7	7796.4	9121.2	11149.5	12743.9	13459.1	14463.4	14877.7	16351.0	16390.1	12990.1
57.5°	6190.2	6284.0	7007.0	9121.2	11434.7	13162.1	14748.7	15358.4	17281.1	17382.7	13810.8
60°	4904.5	5041.3	5525.9	6979.7	9601.9	12446.9	14948.0	15893.8	18281.5	18433.9	14791.7
62.5°	3646.1	3712.6	4169.8	5170.3	7601.0	11161.2	14842.5	16476.0	19508.6	19692.3	15971.9
65°	2594.9	2653.5	2977.9	3677.4	5619.7	9422.1	14229.0	16909.8	21048.4	21236.0	17159.9
67.5°	1942.3	1965.7	2149.4	2571.5	3786.8	7319.6	12986.2	16835.6	22173.9	22341.9	17636.7
70°	1535.8	1543.7	1633.5	1860.2	2462.0	5096.0	10809.5	15745.2	22255.9	22404.4	17034.9
72.5°	1274.0	1270.1	1320.9	1430.3	1715.6	3224.1	8007.4	13720.9	21200.8	21302.4	15354.4
75°	1051.2	1059.1	1094.2	1156.8	1309.2	2125.9	5189.8	10946.2	18703.6	18594.2	12884.6
77.5°	883.2	879.3	894.9	949.6	1059.1	1528.0	3040.4	7909.7	13861.6	13806.9	8456.9
80°	711.3	719.1	742.5	789.4	891.0	1164.6	1797.7	4935.8	7436.9	7237.6	4040.9
82.5°	476.8	551.0	597.9	652.6	769.9	859.8	1141.1	2508.9	3325.7	3274.9	1832.8
85°	226.7	300.9	445.5	508.0	625.3	539.3	773.8	1195.8	1664.8	1645.3	660.4
87.5°	46.9	46.9	238.4	285.3	386.9	230.6	429.9	519.8	805.0	754.2	269.7
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°	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5	3716.5
2.5°	3736.0	3630.5	3419.5	3251.4	3079.5	2981.8	2860.6	2802.0	2790.3	2759.0	2782.5
5°	3802.5	3595.3	3196.7	2934.9	2759.0	2673.1	2630.1	2614.4	2610.5	2602.7	2602.7
7.5°	3892.3	3575.8	3056.0	2790.3	2677.0	2649.6	2661.3	2684.8	2688.7	2696.5	2692.6
10°	4001.8	3579.7	2977.9	2755.1	2700.4	2704.3	2743.4	2774.7	2790.3	2802.0	2798.1
12.5°	4154.2	3626.6	2966.2	2778.6	2755.1	2770.8	2809.8	2841.1	2856.7	2860.6	2860.6
15°	4353.5	3724.3	2993.5	2829.4	2809.8	2821.6	2845.0	2856.7	2860.6	2856.7	2856.7
17.5°	4572.3	3841.5	3032.6	2860.6	2829.4	2817.7	2809.8	2798.1	2774.7	2759.0	2759.0
20°	4783.4	3947.1	3052.1	2856.7	2802.0	2755.1	2708.2	2649.6	2610.5	2579.3	2579.3
22.5°	4994.4	4044.8	3052.1	2813.7	2727.8	2637.9	2540.2	2446.4	2387.8	2348.7	2348.7
25°	5217.2	4138.5	3028.7	2739.5	2610.5	2481.6	2348.7	2231.5	2172.8	2133.8	2125.9
27.5°	5404.7	4193.3	2966.2	2634.0	2465.9	2301.8	2149.4	2028.2	1985.3	1950.1	1950.1
30°	5604.0	4228.4	2848.9	2497.2	2301.8	2114.2	1957.9	1860.2	1813.3	1762.5	1758.6
32.5°	5826.8	4251.9	2716.0	2352.6	2133.8	1934.4	1801.6	1723.4	1621.8	1567.1	1559.3
35°	6084.7	4283.1	2575.4	2188.5	1965.7	1785.9	1707.8	1578.8	1481.1	1434.2	1430.3
37.5°	6358.3	4306.6	2422.9	2043.9	1813.3	1688.2	1610.1	1457.7	1371.7	1301.4	1293.5
40°	6647.5	4306.6	2266.6	1903.2	1692.2	1645.3	1496.8	1360.0	1215.4	1180.2	1172.4
42.5°	6967.9	4298.8	2110.3	1766.4	1578.8	1547.6	1430.3	1285.7	1211.5	1180.2	1172.4
45°	7307.9	4271.4	1961.8	1610.1	1461.6	1399.1	1309.2	1270.1	1238.8	1238.8	1238.8
47.5°	7694.8	4248.0	1793.8	1469.4	1375.6	1305.3	1238.8	1215.4	1211.5	1223.2	1234.9
50°	8191.1	4240.2	1653.1	1367.8	1309.2	1227.1	1219.3	1199.7	1203.7	1203.7	1203.7
52.5°	8793.0	4169.8	1520.2	1293.5	1242.7	1145.0	1168.5	1188.0	1195.8	1191.9	1188.0
55°	9234.6	4044.8	1406.9	1242.7	1195.8	1113.8	1145.0	1176.3	1184.1	1172.4	1172.4
57.5°	9633.2	3868.9	1317.0	1203.7	1164.6	1094.2	1129.4	1160.7	1152.9	1148.9	1145.0
60°	10090.4	3700.9	1246.6	1184.1	1133.3	1086.4	1117.7	1137.2	1125.5	1117.7	1113.8
62.5°	10586.7	3536.7	1195.8	1184.1	1109.9	1082.5	1106.0	1113.8	1090.3	1082.5	1082.5
65°	10817.3	3278.8	1141.1	1184.1	1098.1	1074.7	1082.5	1074.7	1051.2	1051.2	1047.3
67.5°	10438.2	2852.8	1070.8	1168.5	1113.8	1063.0	1047.3	1035.6	1008.3	1008.3	1000.4
70°	9390.9	2344.8	969.2	1117.7	1117.7	1059.1	1000.4	973.1	941.8	953.5	937.9
72.5°	8023.1	1860.2	844.1	1031.7	1094.2	1055.2	949.6	906.7	879.3	891.0	867.6
75°	6499.0	1442.0	695.6	894.9	1035.6	1035.6	898.8	840.2	809.0	809.0	781.6
77.5°	4142.5	1066.9	566.7	742.5	930.1	1008.3	855.8	766.0	719.1	707.3	687.8
80°	2051.7	750.3	465.0	590.1	793.3	945.7	824.6	680.0	613.6	590.1	554.9
82.5°	1090.3	519.8	371.3	461.1	633.1	851.9	785.5	586.2	504.1	469.0	429.9
85°	488.5	320.5	297.0	351.7	480.7	699.5	707.3	480.7	386.9	461.1	340.0
87.5°	179.8	144.6	144.6	179.8	277.5	293.1	500.2	308.7	246.2	168.0	132.9
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)