

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: P400309

Luminaire Tested: **ARCH-L-PA3-260-760-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400309
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-PA3-260-760-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34590 lumens
Efficiency: N/A
Efficacy: 132.5 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

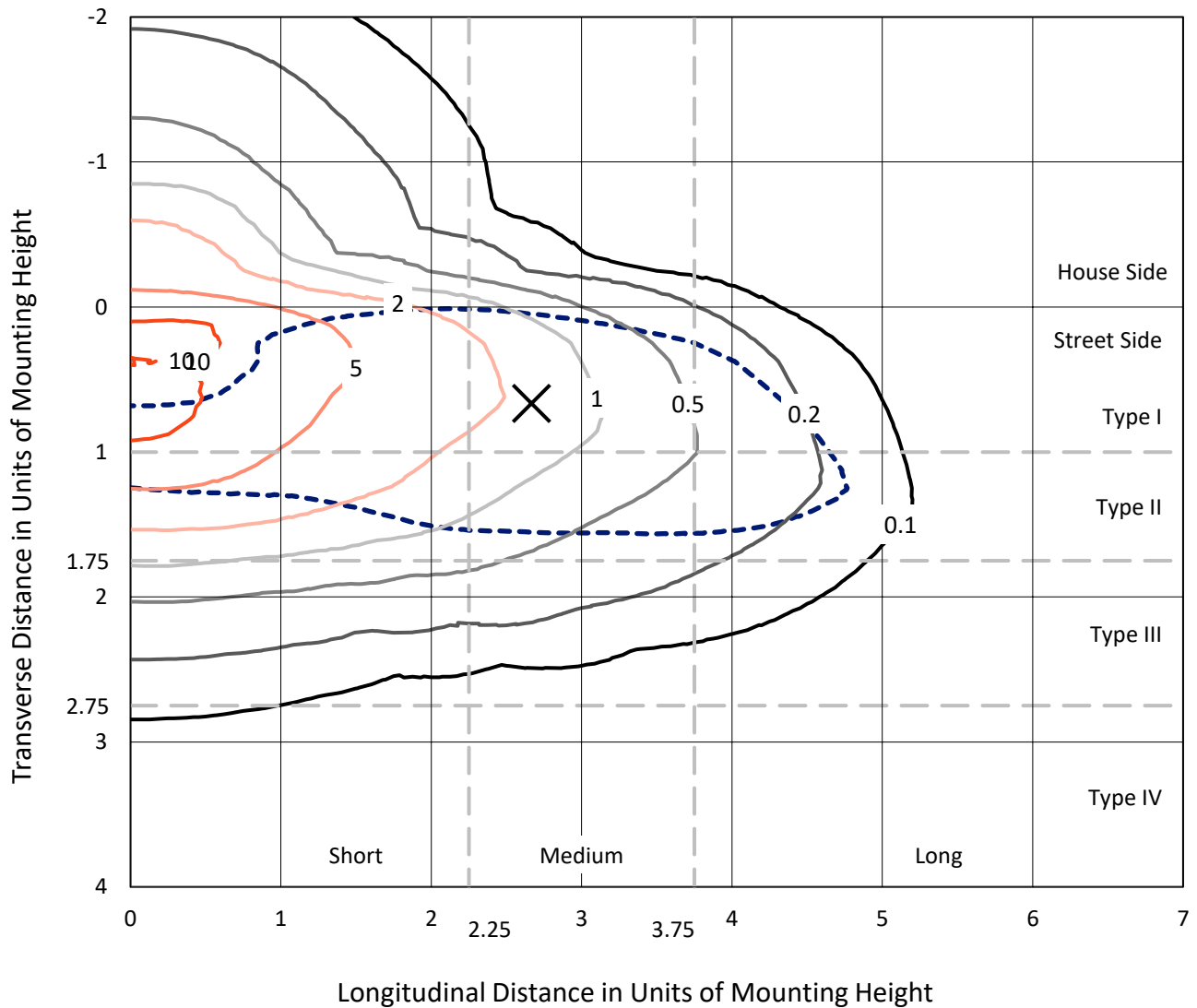
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

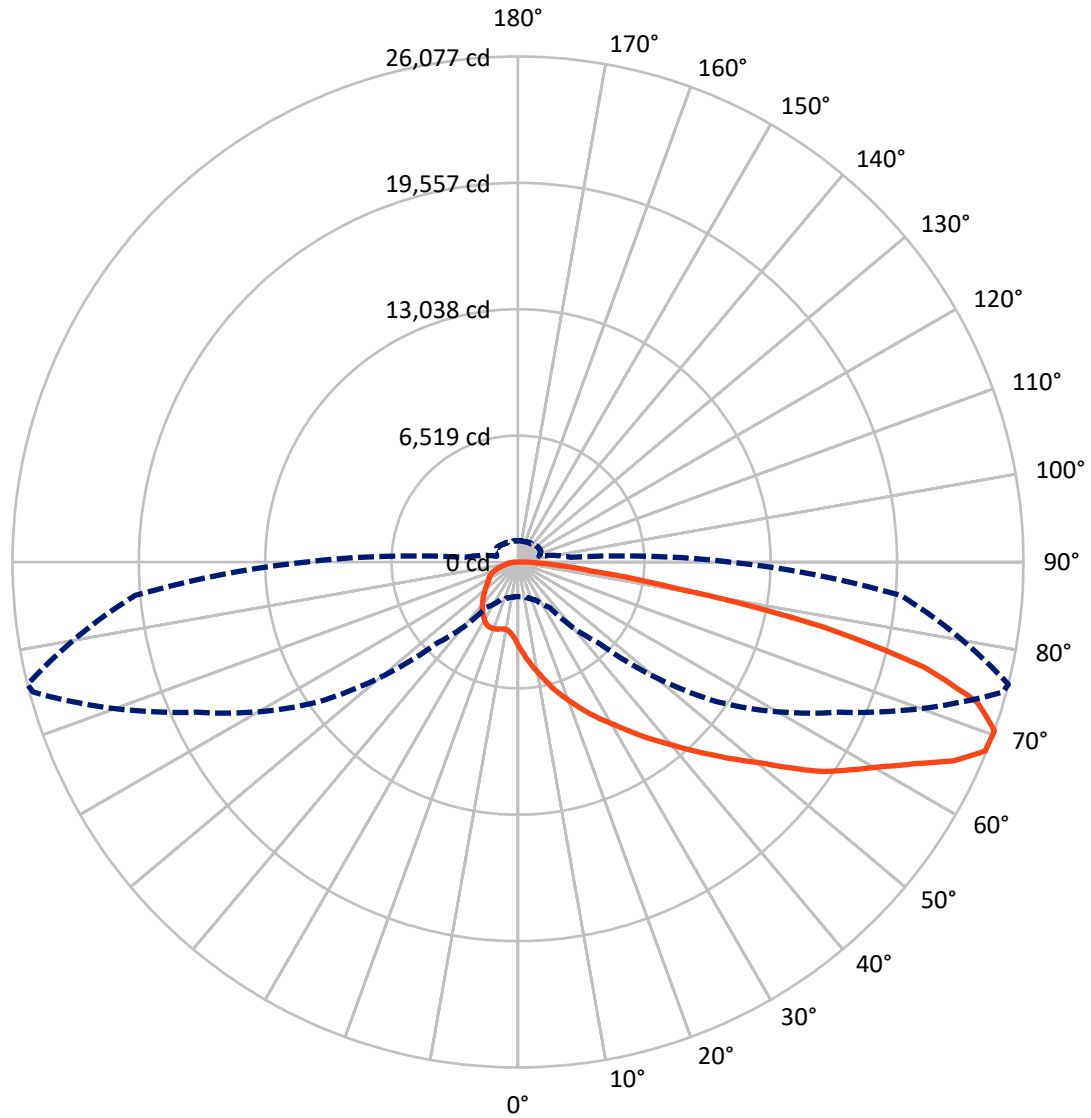
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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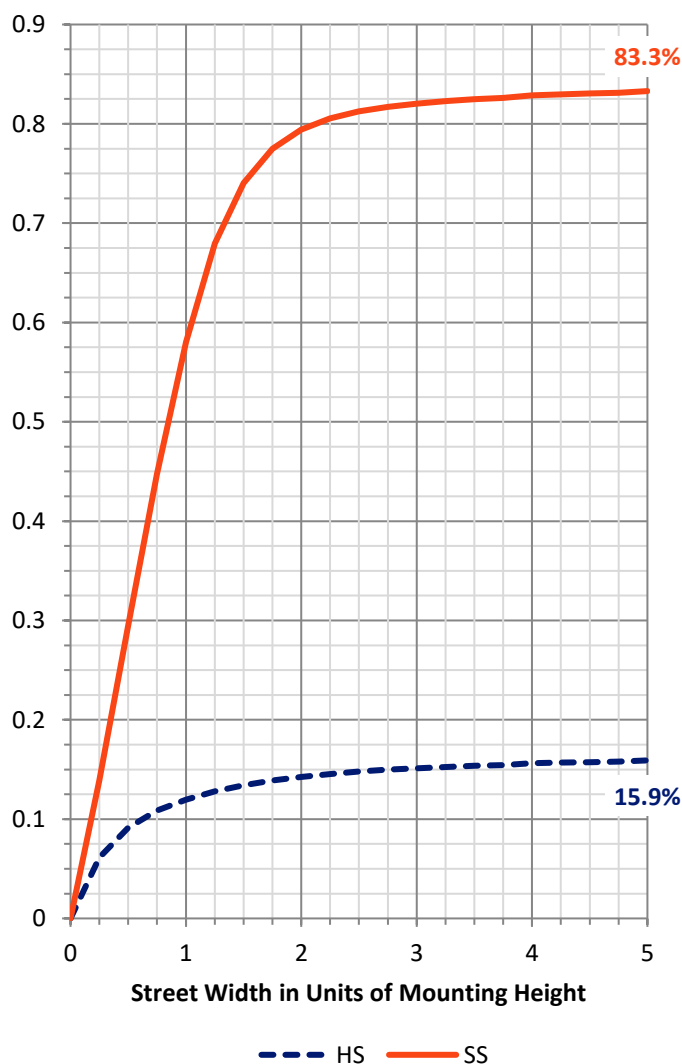
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5647.2	0.0	5647.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	28942.8	0.0	28942.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	34590.0	0.0	34590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.3
10°-20°	1527.5	4.4
20°-30°	2733.0	7.9
30°-40°	4421.0	12.8
40°-50°	6395.6	18.5
50°-60°	7320.2	21.2
60°-70°	6733.7	19.5
70°-80°	4164.0	12.0
80°-90°	845.6	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°	34590.0	100.0
0°-180°	34590.0	100.0

Coefficient of Utilization



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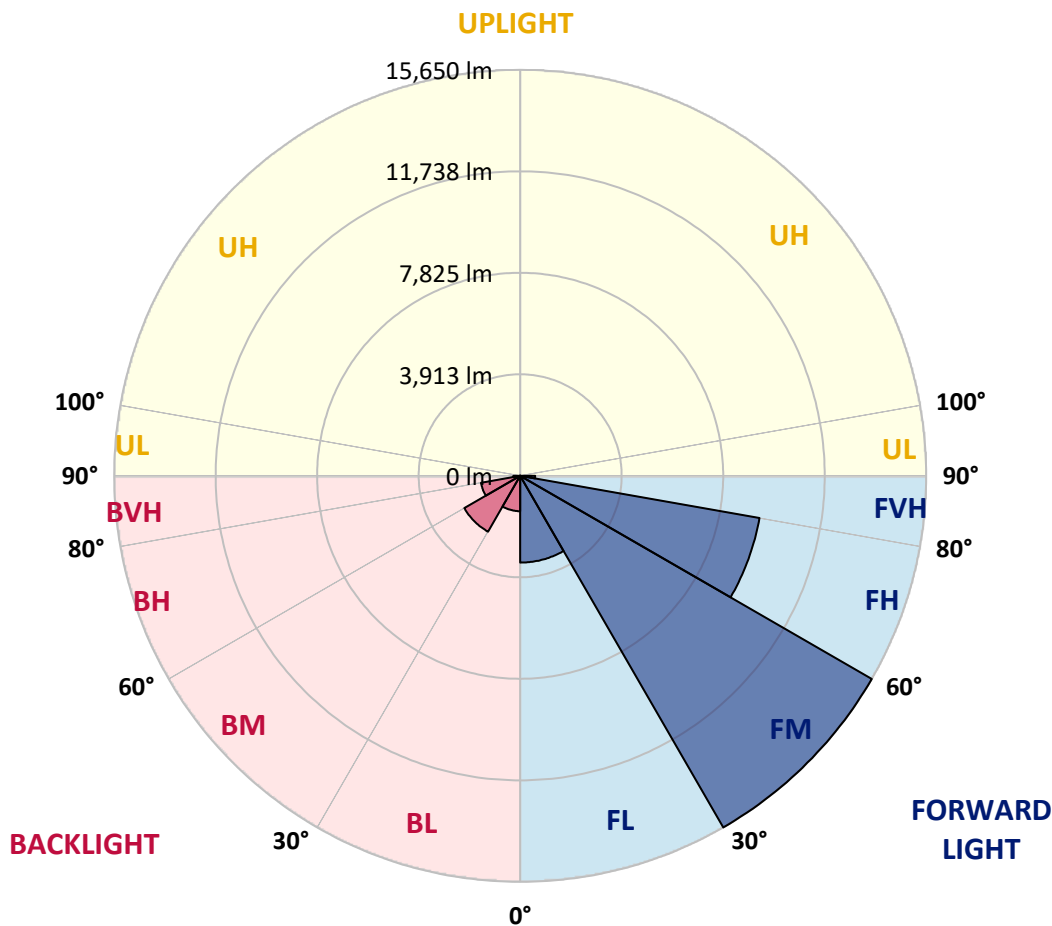
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3346.0	9.7			
FM (30°-60°)	15650.3	45.2			
FH (60°-80°)	9366.0	27.1			G4/12000
FVH (80°-90°)	580.5	1.7			G4/750
BL (0°-30°)	1364.0	3.9	B3/2500		
BM (30°-60°)	2486.4	7.2	B2/2500		
BH (60°-80°)	1531.7	4.4	B3/2500		G3/2500
BVH (80°-90°)	265.1	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°	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6
2.5°	5512.8	5471.9	5467.3	5403.6	5344.5	5185.3	5071.6	4871.4	4671.3	4666.8	4466.6
5°	6372.5	6331.5	6308.8	6231.5	6131.4	5922.2	5717.5	5408.2	5067.0	5044.3	4666.8
7.5°	6954.7	6918.3	6872.8	6841.0	6745.4	6558.9	6308.8	5940.3	5471.9	5426.4	4898.7
10°	7345.8	7323.1	7314.0	7291.3	7232.1	7082.0	6841.0	6449.8	5876.7	5826.6	5144.4
12.5°	7514.1	7505.0	7546.0	7609.6	7632.4	7573.3	7341.3	6972.9	6322.4	6267.8	5440.0
15°	7318.5	7327.6	7432.3	7650.6	7882.6	8009.9	7873.5	7514.1	6827.3	6750.0	5785.7
17.5°	7227.6	7241.2	7314.0	7523.2	7850.7	8246.4	8310.1	8028.1	7314.0	7204.8	6149.6
20°	7386.8	7405.0	7459.5	7623.3	7850.7	8273.7	8605.8	8519.3	7791.6	7677.9	6499.8
22.5°	7791.6	7814.3	7809.8	7914.4	8069.0	8360.2	8769.5	8983.3	8291.9	8164.6	6863.7
25°	8655.8	8637.6	8483.0	8432.9	8473.9	8660.4	8987.8	9429.0	8815.0	8687.6	7245.8
27.5°	9829.3	9806.6	9524.6	9269.9	9042.4	9124.3	9297.1	9788.4	9347.2	9201.6	7609.6
30°	11084.7	11057.4	10729.9	10316.0	9811.1	9692.9	9670.1	10102.2	9883.9	9729.3	7996.3
32.5°	12308.3	12285.5	11935.3	11453.1	10757.2	10402.4	10184.1	10452.5	10493.4	10343.3	8419.3
35°	13422.6	13422.6	13122.4	12549.3	11762.4	11225.7	10866.4	10884.6	11193.9	11021.0	8901.4
37.5°	14414.2	14409.7	14082.2	13518.2	12763.1	12149.1	11703.3	11407.6	11862.5	11712.4	9406.3
40°	15201.1	15169.3	14928.2	14437.0	13677.4	13067.9	12617.6	12021.7	12608.5	12472.0	9943.0
42.5°	15774.2	15756.0	15592.3	15164.7	14441.5	13868.4	13559.1	12794.9	13454.5	13318.0	10570.7
45°	15997.1	16033.5	16033.5	15628.7	15055.5	14532.5	14396.0	13645.5	14368.7	14232.3	11243.9
47.5°	15637.8	15733.3	15928.9	15956.2	15451.3	15096.5	15142.0	14500.6	15310.3	15237.5	11980.8
50°	14514.3	14691.7	15119.2	15892.5	15610.5	15528.6	15778.8	15373.9	16320.0	16297.3	12876.8
52.5°	11616.9	12049.0	13381.7	14769.0	15501.3	15728.7	16411.0	16356.4	17620.9	17657.3	14045.8
55°	8910.5	9074.3	10616.2	12976.9	14832.7	15665.0	16834.0	17316.2	19030.9	19076.4	15119.2
57.5°	7204.8	7314.0	8155.5	10616.2	13308.9	15319.4	17166.1	17875.6	20113.5	20231.7	16074.4
60°	5708.4	5867.6	6431.6	8123.6	11175.7	14487.0	17398.0	18498.8	21277.9	21455.3	17216.1
62.5°	4243.8	4321.1	4853.3	6017.7	8846.8	12990.5	17275.2	19176.5	22706.1	22919.9	18589.7
65°	3020.2	3088.4	3466.0	4280.1	6540.7	10966.4	16561.1	19681.4	24498.2	24716.6	19972.5
67.5°	2260.6	2287.9	2501.7	2992.9	4407.5	8519.3	15114.7	19595.0	25808.2	26003.8	20527.4
70°	1787.6	1796.7	1901.3	2165.1	2865.6	5931.2	12581.2	18325.9	25903.7	26076.6	19826.9
72.5°	1482.8	1478.3	1537.4	1664.8	1996.8	3752.5	9319.9	15969.8	24675.6	24793.9	17871.1
75°	1223.5	1232.6	1273.6	1346.4	1523.7	2474.4	6040.4	12740.4	21769.1	21641.8	14996.4
77.5°	1028.0	1023.4	1041.6	1105.3	1232.6	1778.5	3538.7	9206.2	16133.5	16069.9	9843.0
80°	827.8	836.9	864.2	918.8	1037.1	1355.5	2092.3	5744.8	8655.8	8423.8	4703.2
82.5°	554.9	641.3	695.9	759.6	896.1	1000.7	1328.2	2920.1	3870.8	3811.6	2133.2
85°	263.8	350.2	518.5	591.3	727.8	627.7	900.6	1391.8	1937.7	1914.9	768.7
87.5°	54.6	54.6	277.5	332.0	450.3	268.4	500.3	605.0	937.0	877.9	313.8
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°	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6	4325.6
2.5°	4348.4	4225.6	3979.9	3784.4	3584.2	3470.5	3329.5	3261.3	3247.6	3211.2	3238.5
5°	4425.7	4184.6	3720.7	3415.9	3211.2	3111.2	3061.1	3042.9	3038.4	3029.3	3029.3
7.5°	4530.3	4161.9	3556.9	3247.6	3115.7	3083.9	3097.5	3124.8	3129.4	3138.5	3133.9
10°	4657.7	4166.4	3466.0	3206.7	3143.0	3147.6	3193.0	3229.4	3247.6	3261.3	3256.7
12.5°	4835.1	4221.0	3452.3	3234.0	3206.7	3224.9	3270.4	3306.8	3325.0	3329.5	3329.5
15°	5067.0	4334.7	3484.2	3293.1	3270.4	3284.0	3311.3	3325.0	3329.5	3325.0	3325.0
17.5°	5321.7	4471.2	3529.6	3329.5	3293.1	3279.5	3270.4	3256.7	3229.4	3211.2	3211.2
20°	5567.4	4594.0	3552.4	3325.0	3261.3	3206.7	3152.1	3083.9	3038.4	3002.0	3002.0
22.5°	5813.0	4707.7	3552.4	3274.9	3174.9	3070.2	2956.5	2847.4	2779.1	2733.7	2733.7
25°	6072.3	4816.9	3525.1	3188.5	3038.4	2888.3	2733.7	2597.2	2529.0	2483.5	2474.4
27.5°	6290.6	4880.5	3452.3	3065.7	2870.1	2679.1	2501.7	2360.7	2310.6	2269.7	2269.7
30°	6522.6	4921.5	3315.9	2906.5	2679.1	2460.7	2278.8	2165.1	2110.5	2051.4	2046.8
32.5°	6781.8	4948.8	3161.2	2738.2	2483.5	2251.5	2096.9	2005.9	1887.6	1824.0	1814.9
35°	7082.0	4985.2	2997.5	2547.2	2287.9	2078.7	1987.7	1837.6	1723.9	1669.3	1664.8
37.5°	7400.4	5012.5	2820.1	2378.9	2110.5	1965.0	1874.0	1696.6	1596.5	1514.7	1505.6
40°	7737.0	5012.5	2638.1	2215.1	1969.5	1914.9	1742.1	1582.9	1414.6	1373.6	1364.6
42.5°	8110.0	5003.4	2456.2	2055.9	1837.6	1801.2	1664.8	1496.5	1410.0	1373.6	1364.6
45°	8505.7	4971.5	2283.3	1874.0	1701.1	1628.4	1523.7	1478.3	1441.9	1441.9	1441.9
47.5°	8956.0	4944.2	2087.8	1710.2	1601.1	1519.2	1441.9	1414.6	1410.0	1423.7	1437.3
50°	9533.7	4935.1	1924.0	1592.0	1523.7	1428.2	1419.1	1396.4	1400.9	1400.9	1400.9
52.5°	10234.1	4853.3	1769.4	1505.6	1446.4	1332.7	1360.0	1382.7	1391.8	1387.3	1382.7
55°	10748.1	4707.7	1637.5	1446.4	1391.8	1296.3	1332.7	1369.1	1378.2	1364.6	1364.6
57.5°	11212.1	4503.0	1532.8	1400.9	1355.5	1273.6	1314.5	1350.9	1341.8	1337.3	1332.7
60°	11744.2	4307.4	1451.0	1378.2	1319.1	1264.5	1300.9	1323.6	1310.0	1300.9	1296.3
62.5°	12321.9	4116.4	1391.8	1378.2	1291.8	1259.9	1287.2	1296.3	1269.0	1259.9	1259.9
65°	12590.3	3816.2	1328.2	1378.2	1278.1	1250.8	1259.9	1250.8	1223.5	1223.5	1219.0
67.5°	12149.1	3320.4	1246.3	1360.0	1296.3	1237.2	1219.0	1205.4	1173.5	1173.5	1164.4
70°	10930.1	2729.1	1128.0	1300.9	1300.9	1232.6	1164.4	1132.6	1096.2	1109.8	1091.6
72.5°	9338.1	2165.1	982.5	1200.8	1273.6	1228.1	1105.3	1055.3	1023.4	1037.1	1009.8
75°	7564.2	1678.4	809.6	1041.6	1205.4	1205.4	1046.2	977.9	941.5	941.5	909.7
77.5°	4821.4	1241.7	659.5	864.2	1082.5	1173.5	996.1	891.5	836.9	823.3	800.5
80°	2388.0	873.3	541.3	686.8	923.3	1100.7	959.7	791.4	714.1	686.8	645.9
82.5°	1269.0	605.0	432.1	536.7	736.9	991.6	914.2	682.3	586.8	545.8	500.3
85°	568.6	373.0	345.7	409.4	559.5	814.2	823.3	559.5	450.3	536.7	395.7
87.5°	209.2	168.3	168.3	209.2	322.9	341.1	582.2	359.3	286.6	195.6	154.6
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)