

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: P400291

Luminaire Tested: **ARCH-L-PA3-260-740-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400291
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-PA3-260-740-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 34591 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

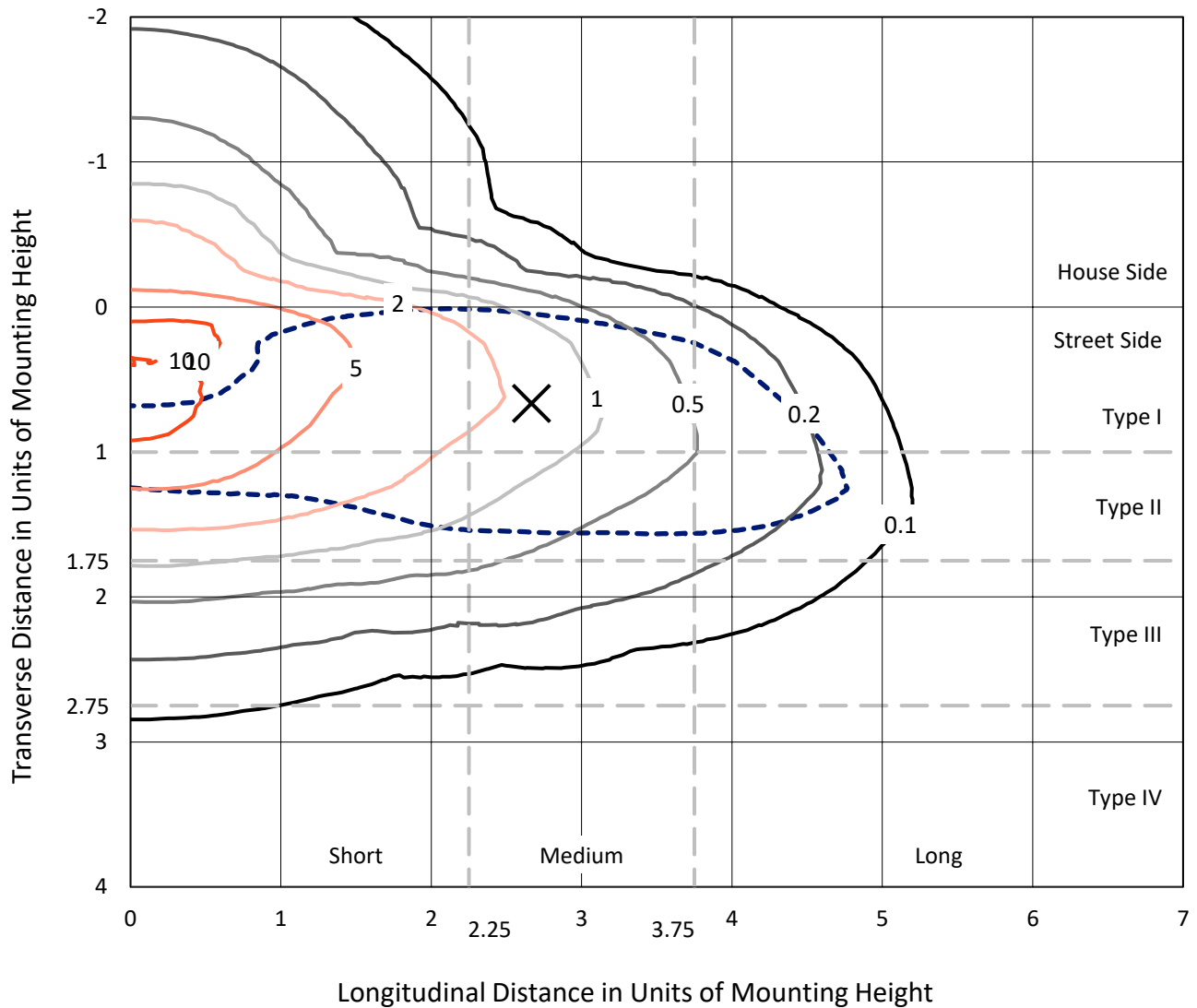
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

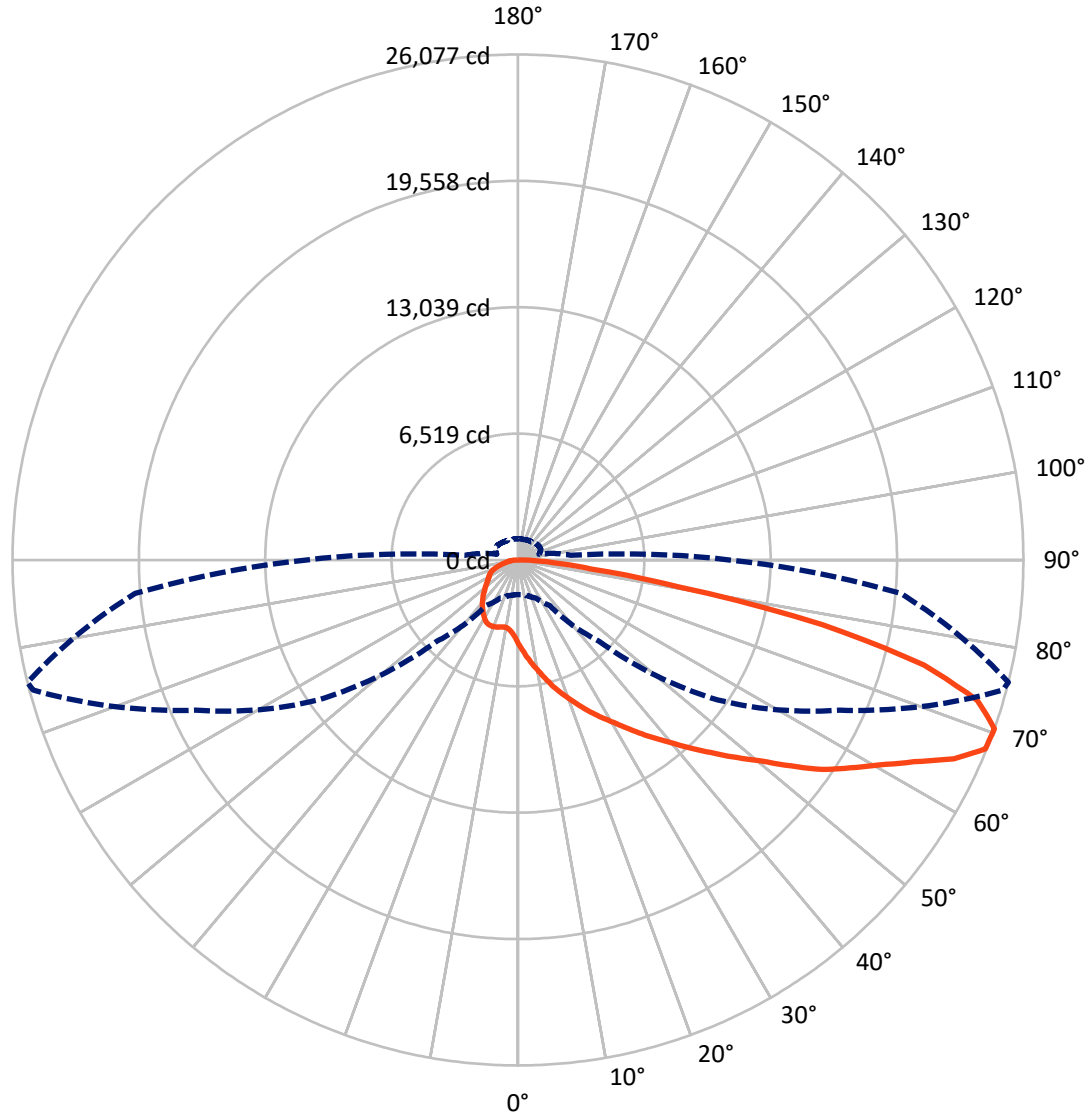
✕ Max cd
 - - - 1/2 Max cd



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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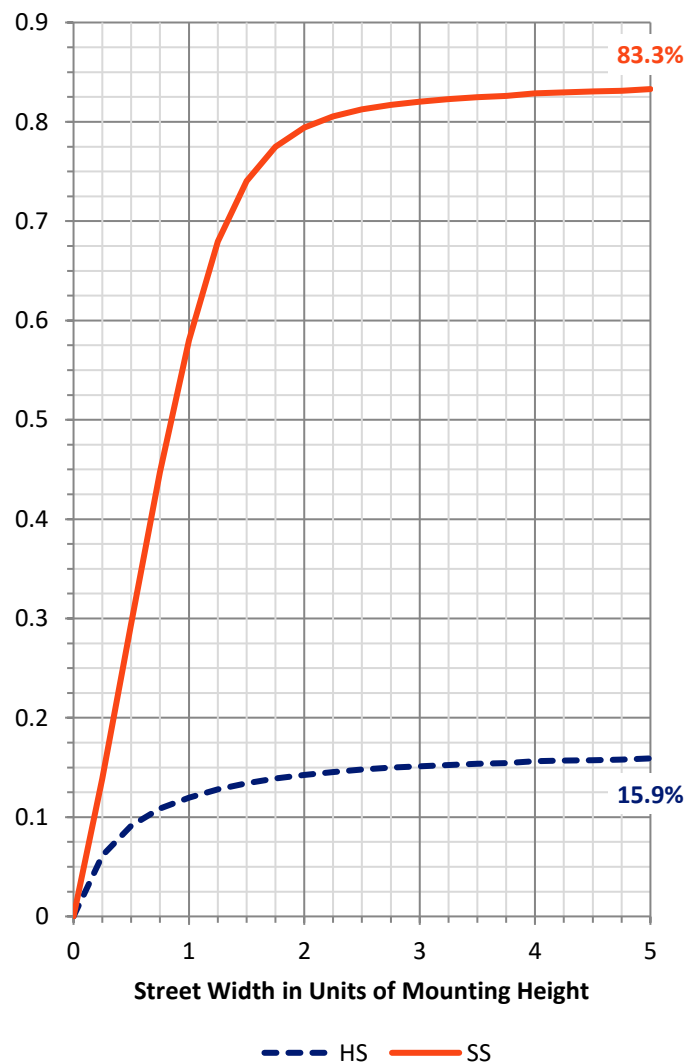
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5647.3	0.0	5647.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	28943.7	0.0	28943.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	34591.0	0.0	34591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.3
10°-20°	1527.6	4.4
20°-30°	2733.1	7.9
30°-40°	4421.1	12.8
40°-50°	6395.8	18.5
50°-60°	7320.4	21.2
60°-70°	6733.9	19.5
70°-80°	4164.1	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°	34591.0	100.0
0°-180°	34591.0	100.0



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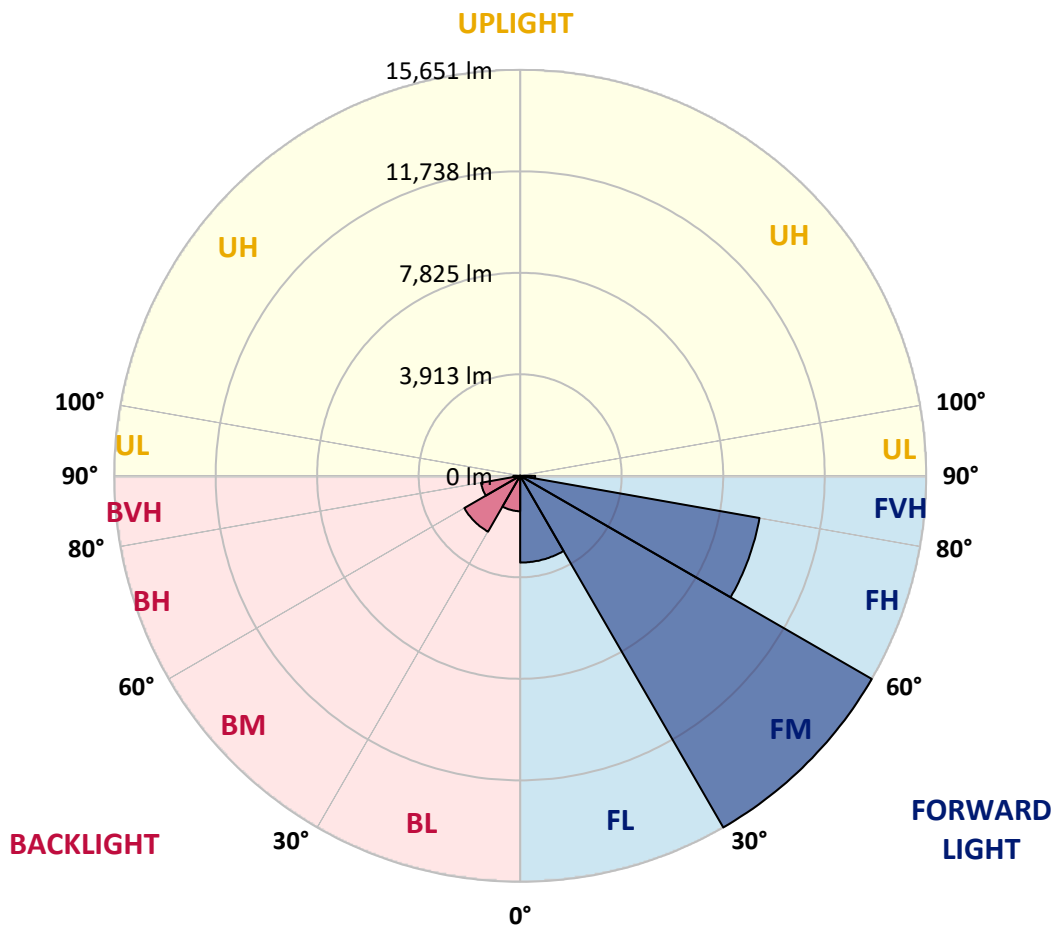
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3346.1	9.7			
FM (30°-60°)	15650.8	45.2			
FH (60°-80°)	9366.3	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°)	2486.5	7.2	B2/2500		
BH (60°-80°)	1531.8	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°	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8
2.5°	5512.9	5472.0	5467.5	5403.8	5344.6	5185.4	5071.7	4871.6	4671.4	4666.9	4466.8
5°	6372.6	6331.7	6309.0	6231.6	6131.6	5922.3	5717.6	5408.3	5067.2	5044.4	4666.9
7.5°	6954.9	6918.5	6873.0	6841.1	6745.6	6559.1	6309.0	5940.5	5472.0	5426.5	4898.9
10°	7346.0	7323.3	7314.2	7291.5	7232.3	7082.2	6841.1	6450.0	5876.8	5826.8	5144.5
12.5°	7514.3	7505.2	7546.2	7609.9	7632.6	7573.5	7341.5	6973.1	6322.6	6268.0	5440.2
15°	7318.8	7327.9	7432.5	7650.8	7882.8	8010.1	7873.7	7514.3	6827.5	6750.2	5785.9
17.5°	7227.8	7241.4	7314.2	7523.4	7850.9	8246.7	8310.4	8028.3	7314.2	7205.0	6149.8
20°	7387.0	7405.2	7459.8	7623.5	7850.9	8274.0	8606.0	8519.6	7791.8	7678.1	6500.0
22.5°	7791.8	7814.6	7810.0	7914.6	8069.3	8360.4	8769.8	8983.6	8292.2	8164.8	6863.9
25°	8656.1	8637.9	8483.2	8433.2	8474.1	8660.6	8988.1	9429.3	8815.3	8687.9	7246.0
27.5°	9829.6	9806.9	9524.8	9270.1	9042.7	9124.6	9297.4	9788.7	9347.4	9201.9	7609.9
30°	11085.0	11057.7	10730.2	10316.3	9811.4	9693.1	9670.4	10102.5	9884.2	9729.5	7996.5
32.5°	12308.6	12285.9	11935.6	11453.5	10757.5	10402.7	10184.4	10452.8	10493.7	10343.6	8419.5
35°	13423.0	13423.0	13122.8	12549.7	11762.8	11226.0	10866.7	10884.9	11194.2	11021.3	8901.7
37.5°	14414.6	14410.1	14082.6	13518.5	12763.5	12149.4	11703.6	11408.0	11862.8	11712.7	9406.6
40°	15201.5	15169.7	14928.6	14437.4	13677.7	13068.2	12617.9	12022.0	12608.8	12472.4	9943.3
42.5°	15774.7	15756.5	15592.7	15165.2	14441.9	13868.8	13559.5	12795.3	13454.9	13318.4	10571.0
45°	15997.6	16033.9	16033.9	15629.1	15056.0	14532.9	14396.4	13645.9	14369.1	14232.7	11244.2
47.5°	15638.2	15733.7	15929.3	15956.6	15451.7	15096.9	15142.4	14501.1	15310.7	15237.9	11981.1
50°	14514.7	14692.1	15119.7	15892.9	15610.9	15529.0	15779.2	15374.4	16320.5	16297.8	12877.2
52.5°	11617.2	12049.3	13382.1	14769.4	15501.8	15729.2	16411.5	16356.9	17621.4	17657.8	14046.2
55°	8910.8	9074.5	10616.5	12977.3	14833.1	15665.5	16834.5	17316.7	19031.5	19077.0	15119.7
57.5°	7205.0	7314.2	8155.7	10616.5	13309.3	15319.8	17166.6	17876.1	20114.1	20232.3	16074.9
60°	5708.5	5867.7	6431.8	8123.9	11176.0	14487.4	17398.5	18499.3	21278.5	21455.9	17216.6
62.5°	4243.9	4321.2	4853.4	6017.8	8847.1	12990.9	17275.7	19177.0	22706.8	22920.6	18590.3
65°	3020.3	3088.5	3466.1	4280.3	6540.9	10966.8	16561.6	19681.9	24499.0	24717.3	19973.1
67.5°	2260.7	2288.0	2501.7	2993.0	4407.6	8519.6	15115.1	19595.5	25809.0	26004.6	20528.0
70°	1787.6	1796.7	1901.3	2165.2	2865.6	5931.4	12581.5	18326.5	25904.5	26077.3	19827.5
72.5°	1482.9	1478.3	1537.4	1664.8	1996.9	3752.6	9320.2	15970.3	24676.3	24794.6	17871.6
75°	1223.6	1232.7	1273.6	1346.4	1523.8	2474.5	6040.6	12740.7	21769.8	21642.4	14996.9
77.5°	1028.0	1023.4	1041.6	1105.3	1232.7	1778.5	3538.8	9206.4	16134.0	16070.3	9843.2
80°	827.9	836.9	864.2	918.8	1037.1	1355.5	2092.4	5744.9	8656.1	8424.1	4703.3
82.5°	554.9	641.4	695.9	759.6	896.1	1000.7	1328.2	2920.2	3870.9	3811.8	2133.3
85°	263.8	350.2	518.5	591.3	727.8	627.7	900.6	1391.9	1937.7	1915.0	768.7
87.5°	54.6	54.6	277.5	332.1	450.3	268.4	500.3	605.0	937.0	877.9	313.9
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°	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8	4325.8
2.5°	4348.5	4225.7	3980.1	3784.5	3584.3	3470.6	3329.6	3261.4	3247.7	3211.3	3238.6
5°	4425.8	4184.7	3720.8	3416.0	3211.3	3111.3	3061.2	3043.0	3038.5	3029.4	3029.4
7.5°	4530.4	4162.0	3557.0	3247.7	3115.8	3084.0	3097.6	3124.9	3129.5	3138.6	3134.0
10°	4657.8	4166.6	3466.1	3206.8	3143.1	3147.7	3193.1	3229.5	3247.7	3261.4	3256.8
12.5°	4835.2	4221.1	3452.4	3234.1	3206.8	3225.0	3270.5	3306.9	3325.1	3329.6	3329.6
15°	5067.2	4334.8	3484.3	3293.2	3270.5	3284.1	3311.4	3325.1	3329.6	3325.1	3325.1
17.5°	5321.9	4471.3	3529.7	3329.6	3293.2	3279.6	3270.5	3256.8	3229.5	3211.3	3211.3
20°	5567.5	4594.1	3552.5	3325.1	3261.4	3206.8	3152.2	3084.0	3038.5	3002.1	3002.1
22.5°	5813.2	4707.8	3552.5	3275.0	3174.9	3070.3	2956.6	2847.4	2779.2	2733.7	2733.7
25°	6072.4	4817.0	3525.2	3188.6	3038.5	2888.4	2733.7	2597.3	2529.0	2483.6	2474.5
27.5°	6290.8	4880.7	3452.4	3065.8	2870.2	2679.1	2501.7	2360.7	2310.7	2269.8	2269.8
30°	6522.7	4921.6	3316.0	2906.6	2679.1	2460.8	2278.9	2165.2	2110.6	2051.4	2046.9
32.5°	6782.0	4948.9	3161.3	2738.3	2483.6	2251.6	2096.9	2005.9	1887.7	1824.0	1814.9
35°	7082.2	4985.3	2997.6	2547.2	2288.0	2078.7	1987.8	1837.6	1723.9	1669.3	1664.8
37.5°	7400.6	5012.6	2820.2	2378.9	2110.6	1965.0	1874.0	1696.6	1596.6	1514.7	1505.6
40°	7737.2	5012.6	2638.2	2215.2	1969.6	1915.0	1742.1	1582.9	1414.6	1373.7	1364.6
42.5°	8110.2	5003.5	2456.3	2056.0	1837.6	1801.3	1664.8	1496.5	1410.1	1373.7	1364.6
45°	8505.9	4971.7	2283.4	1874.0	1701.2	1628.4	1523.8	1478.3	1441.9	1441.9	1441.9
47.5°	8956.3	4944.4	2087.8	1710.3	1601.1	1519.2	1441.9	1414.6	1410.1	1423.7	1437.4
50°	9533.9	4935.3	1924.1	1592.0	1523.8	1428.3	1419.2	1396.4	1401.0	1401.0	1401.0
52.5°	10234.4	4853.4	1769.4	1505.6	1446.5	1332.8	1360.0	1382.8	1391.9	1387.3	1382.8
55°	10748.4	4707.8	1637.5	1446.5	1391.9	1296.4	1332.8	1369.1	1378.2	1364.6	1364.6
57.5°	11212.4	4503.1	1532.9	1401.0	1355.5	1273.6	1314.6	1350.9	1341.8	1337.3	1332.8
60°	11744.6	4307.6	1451.0	1378.2	1319.1	1264.5	1300.9	1323.7	1310.0	1300.9	1296.4
62.5°	12322.3	4116.5	1391.9	1378.2	1291.8	1260.0	1287.3	1296.4	1269.1	1260.0	1260.0
65°	12590.6	3816.3	1328.2	1378.2	1278.2	1250.9	1260.0	1250.9	1223.6	1223.6	1219.0
67.5°	12149.4	3320.5	1246.3	1360.0	1296.4	1237.2	1219.0	1205.4	1173.5	1173.5	1164.5
70°	10930.4	2729.2	1128.1	1300.9	1300.9	1232.7	1164.5	1132.6	1096.2	1109.9	1091.7
72.5°	9338.3	2165.2	982.5	1200.8	1273.6	1228.1	1105.3	1055.3	1023.4	1037.1	1009.8
75°	7564.4	1678.4	809.7	1041.6	1205.4	1205.4	1046.2	978.0	941.6	941.6	909.7
77.5°	4821.6	1241.8	659.6	864.2	1082.6	1173.5	996.2	891.5	836.9	823.3	800.6
80°	2388.0	873.3	541.3	686.8	923.4	1100.8	959.8	791.5	714.1	686.8	645.9
82.5°	1269.1	605.0	432.1	536.7	736.9	991.6	914.3	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	323.0	341.1	582.2	359.3	286.6	195.6	154.7
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)