

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: P236872

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23453 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

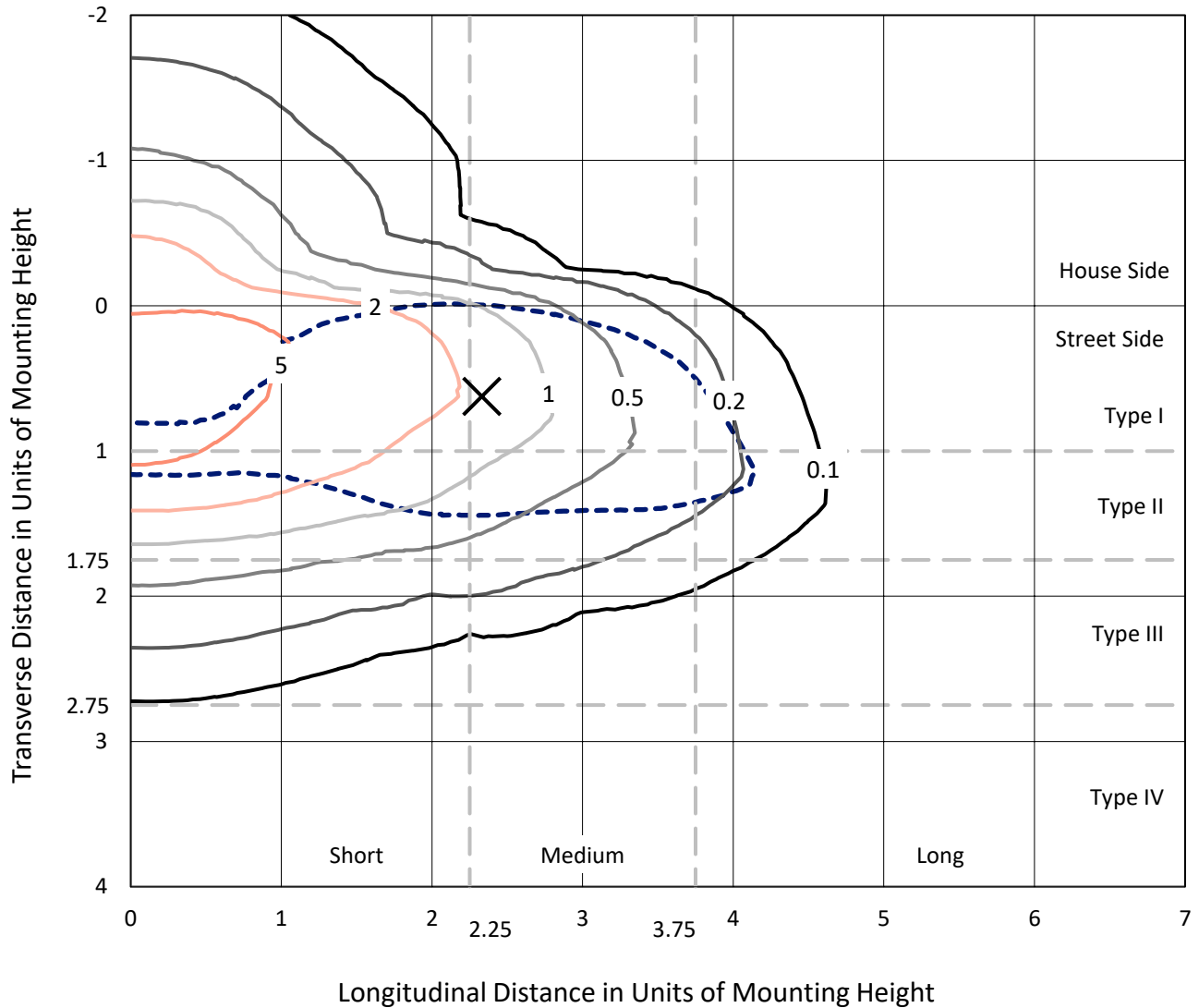
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

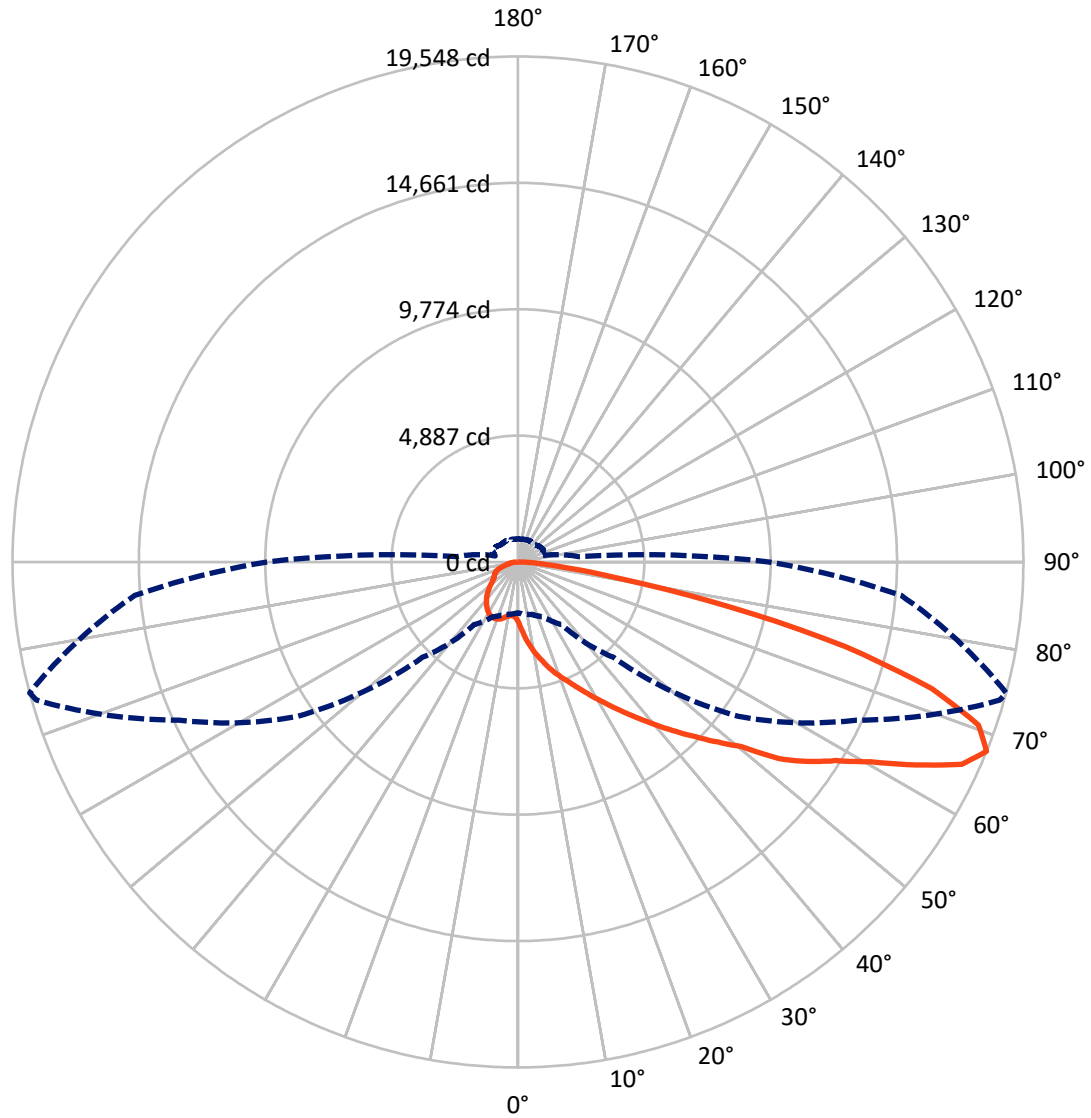
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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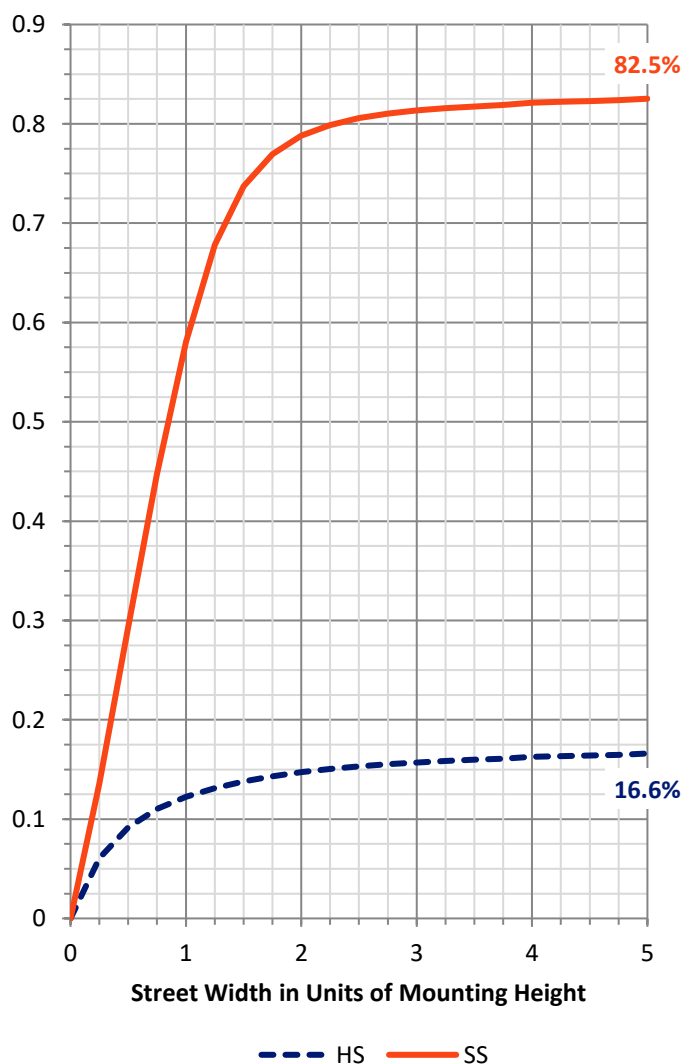
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4004.9	0.0	4004.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19448.1	0.0	19448.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	23453.0	0.0	23453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	1.2
10°-20°	986.7	4.2
20°-30°	1799.6	7.7
30°-40°	2953.8	12.6
40°-50°	4271.7	18.2
50°-60°	5034.2	21.5
60°-70°	4892.0	20.9
70°-80°	2719.3	11.6
80°-90°	522.9	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°	23453.0	100.0
0°-180°	23453.0	100.0

Coefficient of Utilization

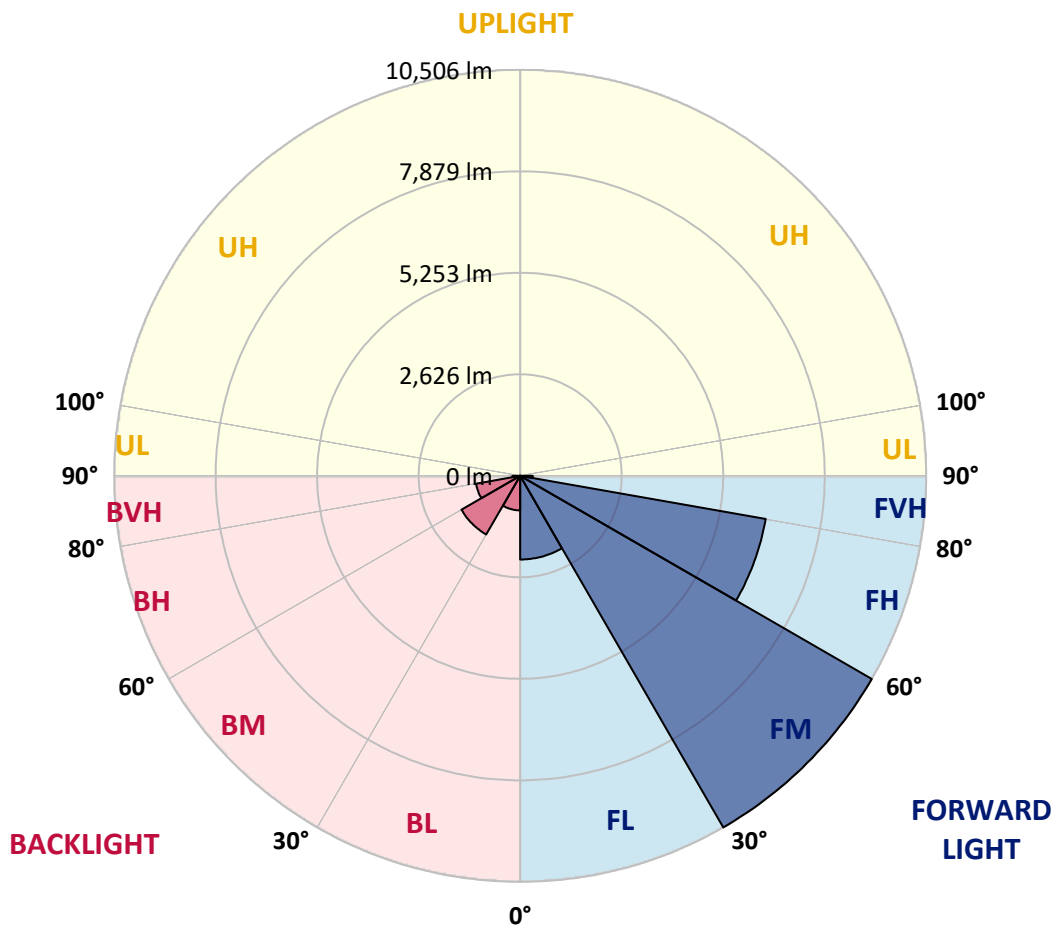


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.3	9.2			
FM (30°-60°)	10505.7	44.8			
FH (60°-80°)	6451.6	27.5			G3/7500
FVH (80°-90°)	325.4	1.4			G3/500
BL (0°-30°)	893.9	3.8	B2/1000		
BM (30°-60°)	1754.0	7.5	B2/2500		
BH (60°-80°)	1159.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	197.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	3294.7	3304.5	3284.9	3240.8	3177.1	3059.4	2956.4	2775.0	2613.2	2593.6	2422.0
5°	3873.3	3883.1	3858.6	3804.6	3736.0	3608.5	3466.3	3231.0	2971.1	2922.1	2559.3
7.5°	4270.4	4275.3	4245.9	4192.0	4138.0	4010.6	3868.4	3603.6	3284.9	3245.7	2735.8
10°	4608.7	4618.5	4579.3	4545.0	4486.1	4358.7	4211.6	3932.1	3603.6	3549.7	2917.2
12.5°	4922.5	4932.3	4907.8	4878.4	4858.7	4741.1	4579.3	4245.9	3892.9	3834.0	3132.9
15°	5133.3	5143.1	5148.0	5187.2	5211.8	5128.4	4966.6	4603.8	4206.7	4152.7	3387.9
17.5°	5074.5	5099.0	5172.5	5314.7	5466.7	5471.6	5339.2	4956.8	4515.5	4456.7	3647.7
20°	4902.9	4922.5	5010.7	5226.5	5525.5	5697.1	5687.3	5314.7	4804.8	4741.1	3888.0
22.5°	5045.1	5069.6	5069.6	5201.9	5496.1	5814.8	5942.3	5667.7	5094.1	5035.3	4128.2
25°	5653.0	5667.7	5564.8	5510.8	5618.7	5912.9	6153.1	6050.1	5447.1	5378.5	4388.1
27.5°	6501.2	6476.7	6349.2	6133.5	6015.8	6094.3	6339.4	6413.0	5854.0	5770.7	4657.7
30°	7344.5	7329.8	7182.7	6893.4	6628.7	6462.0	6545.3	6736.5	6295.3	6197.2	4917.6
32.5°	8133.9	8109.4	7947.6	7609.3	7310.2	7001.3	6839.5	7030.7	6766.0	6653.2	5206.9
35°	8859.5	8795.8	8634.0	8281.0	7972.1	7677.9	7280.8	7310.2	7275.9	7158.2	5525.5
37.5°	9447.8	9398.8	9222.3	8893.8	8565.3	8285.9	7869.1	7628.9	7825.0	7712.2	5893.3
40°	9967.5	9913.6	9732.2	9403.7	9099.7	8835.0	8506.5	8016.2	8442.7	8315.3	6305.1
42.5°	10359.8	10320.6	10173.5	9849.9	9555.7	9315.5	9153.7	8506.5	9085.0	8962.5	6756.2
45°	10570.6	10531.4	10452.9	10193.1	9923.4	9737.1	9751.8	9089.9	9756.7	9653.8	7290.6
47.5°	10310.7	10340.2	10408.8	10359.8	10193.1	10104.8	10286.2	9693.0	10506.9	10408.8	7869.1
50°	9614.5	9644.0	9918.5	10256.8	10315.6	10423.5	10766.7	10389.2	11301.1	11222.7	8584.9
52.5°	7903.4	8065.2	8825.2	9634.1	10188.2	10634.3	11301.1	11423.7	12639.6	12639.6	9849.9
55°	5971.7	6113.9	6981.7	8393.7	9693.0	10653.9	11693.4	12124.8	13605.5	13625.1	10511.8
57.5°	4839.1	4927.4	5353.9	6800.3	8653.6	10408.8	12159.1	12727.9	14409.5	14497.8	11364.9
60°	3927.2	3976.2	4255.7	5260.8	7217.0	9746.9	12492.5	13590.8	15556.8	15679.4	12453.3
62.5°	3157.5	3206.5	3392.8	3995.8	5662.8	8506.5	12433.7	14488.0	17086.5	17287.5	13880.0
65°	2520.1	2574.0	2696.6	3069.2	4196.9	6967.0	11830.6	14948.9	18670.1	18866.3	14826.3
67.5°	1966.1	2015.1	2098.4	2343.6	2956.4	5211.8	10403.9	14463.5	19381.1	19547.8	14875.3
70°	1485.6	1510.1	1578.7	1735.6	2113.1	3461.4	8143.7	12835.7	18743.7	18895.7	13894.7
72.5°	1152.2	1147.3	1186.5	1264.9	1475.8	2382.8	5398.1	10438.2	16571.7	16728.6	11855.2
75°	941.4	936.4	961.0	985.5	1068.8	1598.3	3186.9	7859.3	13375.0	13076.0	8893.8
77.5°	794.3	789.4	813.9	818.8	853.1	1103.1	1814.1	5172.5	8923.2	8408.4	5010.7
80°	671.7	666.8	696.2	706.0	730.5	809.0	1044.3	2799.5	4481.2	4245.9	2392.6
82.5°	505.0	524.6	578.5	603.1	632.5	598.2	647.2	1235.5	2078.8	1985.7	1039.4
85°	245.1	289.3	436.4	485.4	519.7	377.5	441.3	583.4	936.4	892.3	421.6
87.5°	83.3	73.5	259.9	308.9	338.3	171.6	245.1	323.6	387.3	353.0	132.4
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°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	2348.5	2274.9	2167.1	2083.7	2029.8	1985.7	1966.1	1961.1	1951.3	1946.4	1946.4
5°	2397.5	2265.1	2098.4	2010.2	1985.7	1966.1	1975.9	1980.8	1980.8	1980.8	1980.8
7.5°	2471.0	2284.7	2083.7	2024.9	2020.0	2020.0	2049.4	2064.1	2073.9	2073.9	2073.9
10°	2569.1	2319.1	2108.2	2059.2	2073.9	2083.7	2118.0	2137.7	2147.5	2152.4	2157.3
12.5°	2701.5	2392.6	2157.3	2118.0	2137.7	2142.6	2167.1	2176.9	2186.7	2191.6	2191.6
15°	2878.0	2500.5	2235.7	2186.7	2191.6	2186.7	2186.7	2176.9	2172.0	2172.0	2181.8
17.5°	3059.4	2603.4	2304.4	2235.7	2216.1	2176.9	2147.5	2122.9	2108.2	2098.4	2103.3
20°	3240.8	2696.6	2343.6	2245.5	2191.6	2127.8	2073.9	2039.6	2020.0	2000.4	2010.2
22.5°	3422.2	2784.8	2358.3	2216.1	2137.7	2044.5	1985.7	1931.7	1887.6	1858.2	1863.1
25°	3623.2	2882.9	2358.3	2181.8	2064.1	1966.1	1892.5	1804.3	1740.5	1716.0	1725.8
27.5°	3824.2	2966.2	2333.8	2118.0	1980.8	1882.7	1774.8	1671.9	1632.7	1617.9	1622.9
30°	4025.3	3030.0	2279.8	2039.6	1892.5	1784.6	1642.5	1573.8	1524.8	1485.6	1490.5
32.5°	4226.3	3074.1	2206.3	1941.5	1799.4	1662.1	1544.4	1466.0	1377.7	1328.7	1333.6
35°	4456.7	3108.4	2118.0	1843.5	1696.4	1554.2	1466.0	1338.5	1245.3	1206.1	1196.3
37.5°	4697.0	3132.9	2024.9	1735.6	1593.4	1475.8	1387.5	1230.6	1142.4	1088.4	1083.5
40°	4956.8	3142.7	1912.1	1622.9	1495.4	1426.7	1284.6	1166.9	1014.9	980.6	980.6
42.5°	5265.7	3137.8	1799.4	1510.1	1387.5	1314.0	1211.0	1157.1	1024.7	990.4	970.8
45°	5618.7	3137.8	1676.8	1377.7	1279.7	1171.8	1127.7	1093.3	1005.1	1019.8	1029.6
47.5°	6020.7	3128.0	1529.7	1269.8	1191.4	1098.2	1073.7	1000.2	965.9	975.7	985.5
50°	6574.8	3142.7	1397.3	1181.6	1127.7	1049.2	1019.8	980.6	965.9	970.8	965.9
52.5°	7344.5	3093.7	1269.8	1127.7	1078.6	975.7	975.7	970.8	975.7	970.8	970.8
55°	7766.2	2985.9	1176.7	1098.2	1044.3	941.4	961.0	970.8	980.6	975.7	975.7
57.5°	8364.3	2912.3	1103.1	1078.6	1024.7	931.5	951.2	970.8	975.7	970.8	970.8
60°	9070.3	2863.3	1054.1	1083.5	1010.0	931.5	956.1	970.8	965.9	961.0	961.0
62.5°	9889.1	2843.7	1019.8	1098.2	995.3	936.4	956.1	970.8	951.2	946.3	946.3
65°	10198.0	2667.2	975.7	1108.0	1005.1	936.4	951.2	956.1	931.5	926.6	921.7
67.5°	9722.4	2363.2	911.9	1088.4	1034.5	936.4	936.4	931.5	902.1	897.2	887.4
70°	8658.5	1961.1	813.9	1024.7	1054.1	941.4	916.8	892.3	862.9	862.9	843.3
72.5°	7089.6	1544.4	686.4	911.9	1039.4	956.1	877.6	843.3	809.0	809.0	789.4
75°	5108.8	1152.2	549.1	759.9	975.7	951.2	828.6	784.5	745.2	740.3	715.8
77.5°	2912.3	809.0	446.2	593.2	867.8	926.6	784.5	715.8	671.7	657.0	642.3
80°	1495.4	544.2	362.8	465.8	720.7	858.0	750.1	637.4	588.3	563.8	539.3
82.5°	710.9	362.8	279.5	343.2	544.2	750.1	706.0	549.1	495.2	465.8	436.4
85°	318.7	215.7	186.3	220.6	387.3	583.4	622.7	451.1	387.3	485.4	357.9
87.5°	103.0	98.1	98.1	103.0	186.3	254.9	456.0	333.4	308.9	254.9	215.7
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)