

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: P236864

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236864
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-AF72-110-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15496 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

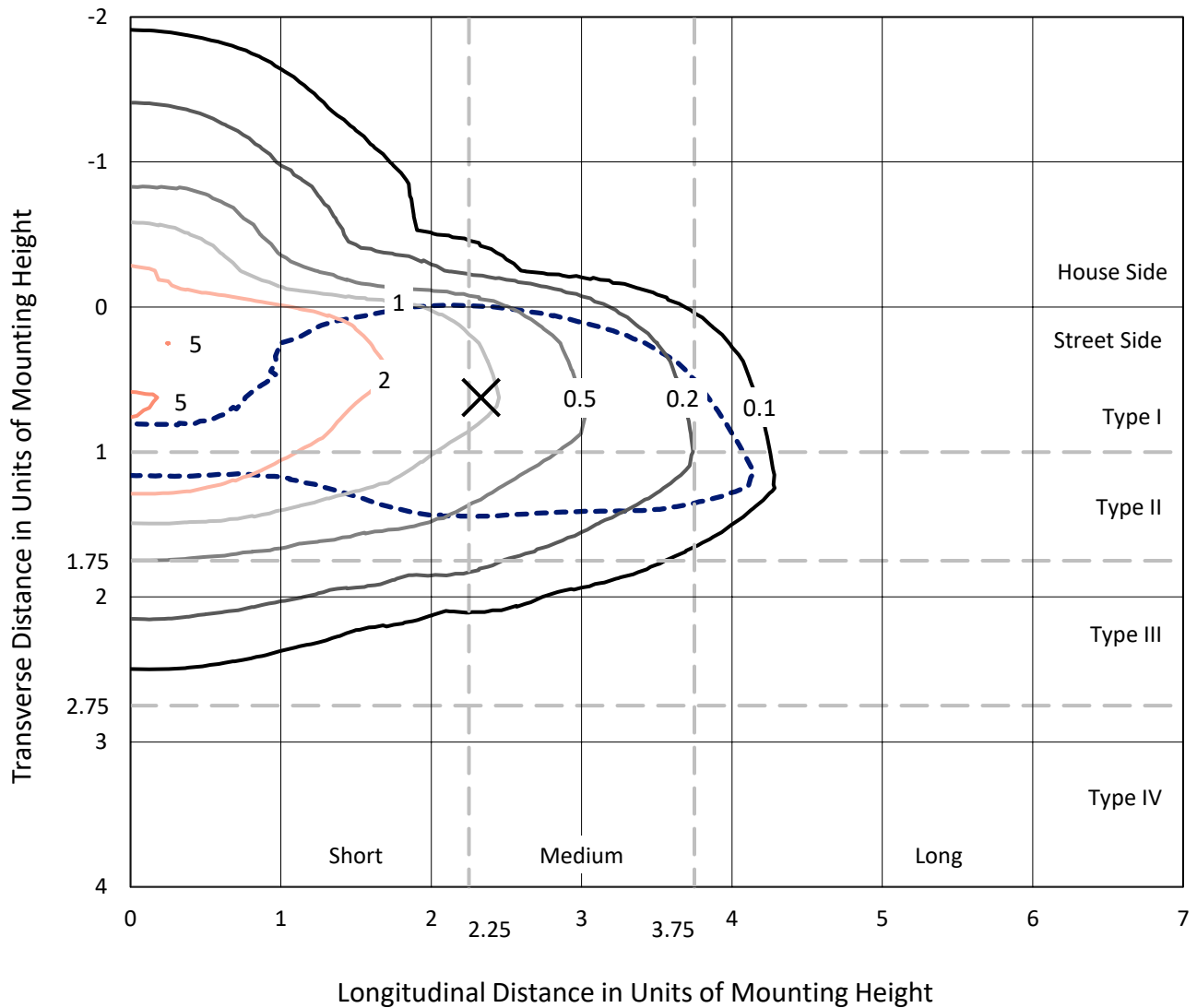
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

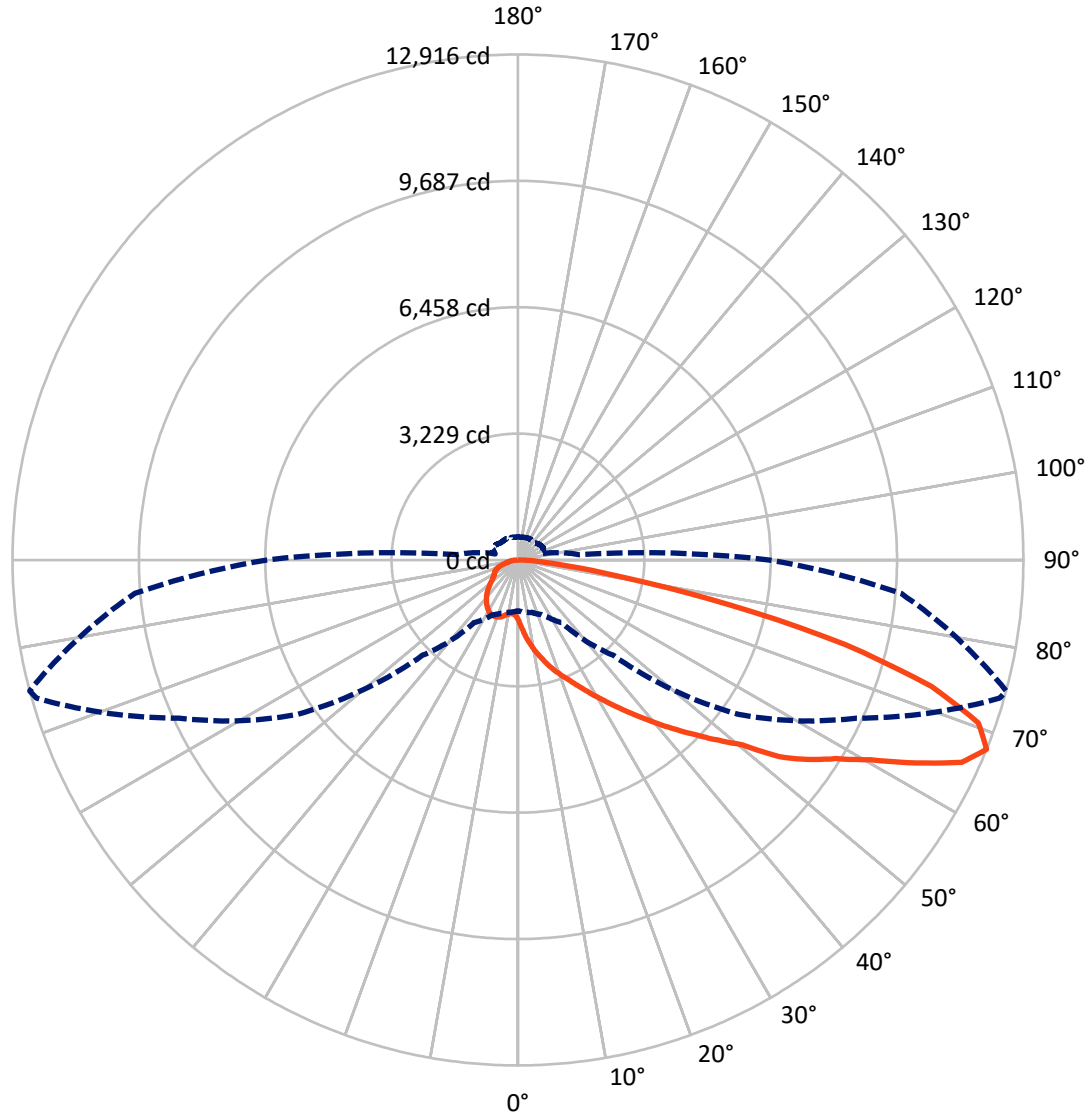
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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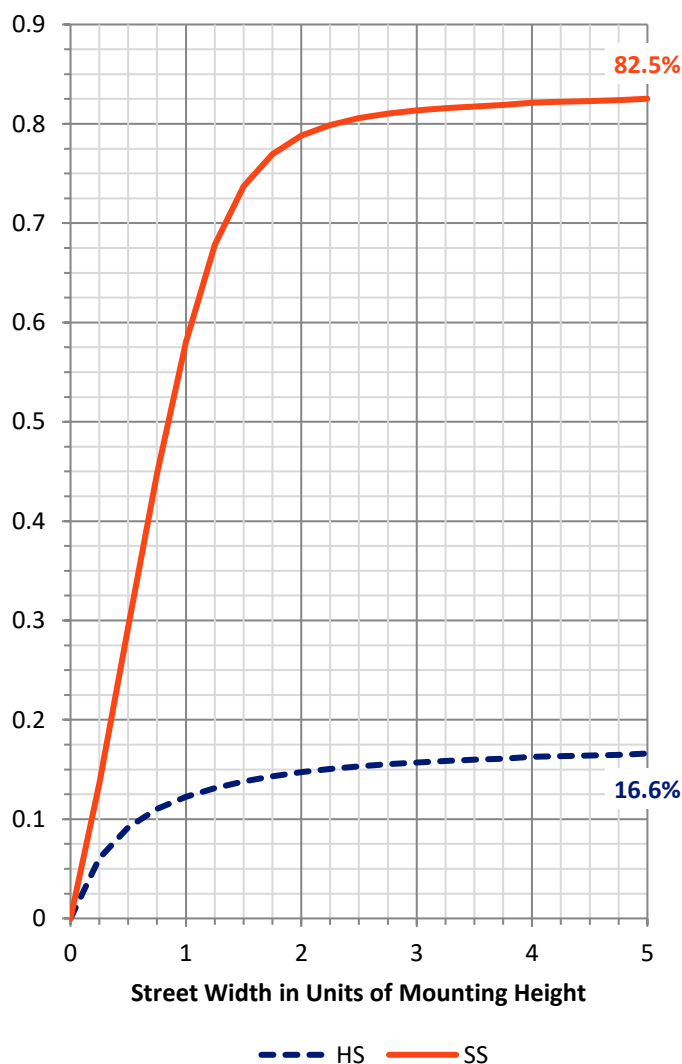
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.2	0.0	2646.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12849.9	0.0	12849.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	15496.0	0.0	15496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	1.2
10°-20°	651.9	4.2
20°-30°	1189.0	7.7
30°-40°	1951.7	12.6
40°-50°	2822.4	18.2
50°-60°	3326.2	21.5
60°-70°	3232.3	20.9
70°-80°	1796.7	11.6
80°-90°	345.5	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°	15496.0	100.0
0°-180°	15496.0	100.0

Coefficient of Utilization

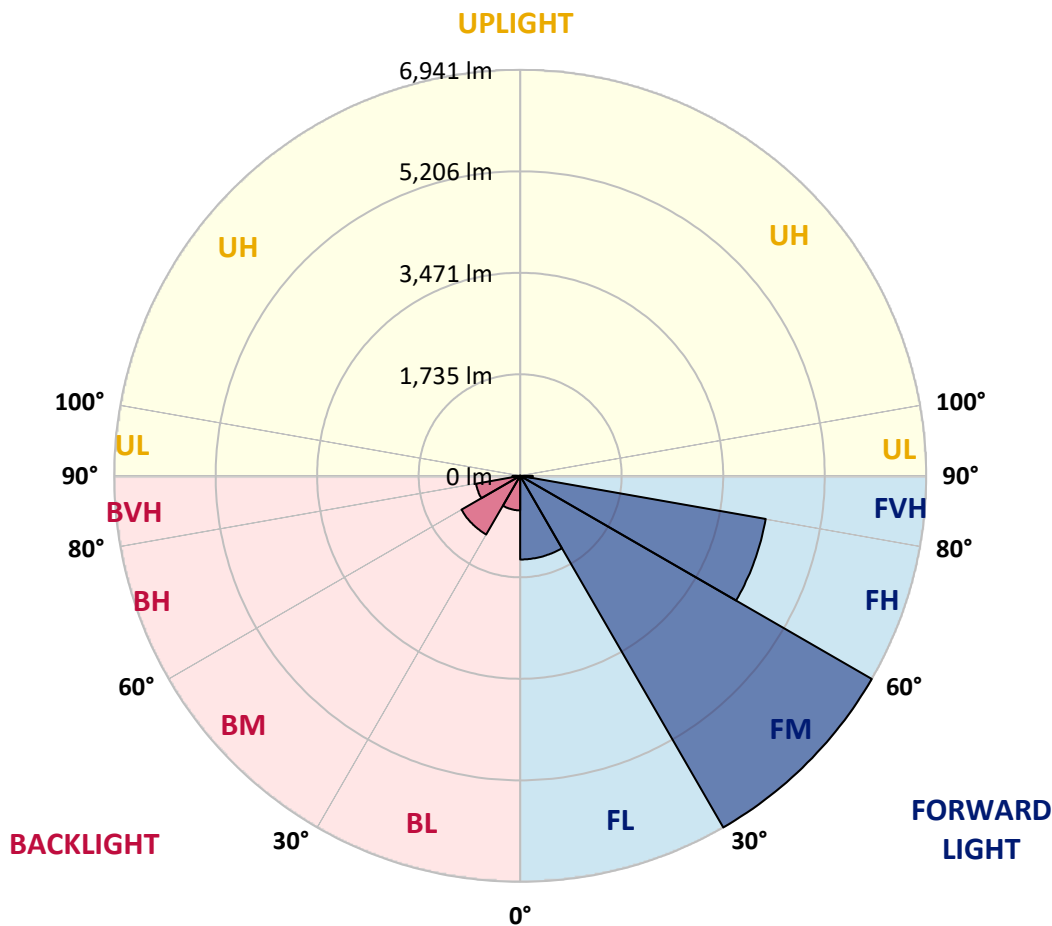


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.7	9.2			
FM (30°-60°)	6941.4	44.8			
FH (60°-80°)	4262.8	27.5			G2/5000
FVH (80°-90°)	215.0	1.4			G2/225
BL (0°-30°)	590.6	3.8	B2/1000		
BM (30°-60°)	1158.9	7.5	B2/2500		
BH (60°-80°)	766.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	130.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	2176.9	2183.4	2170.4	2141.3	2099.2	2021.4	1953.4	1833.5	1726.6	1713.7	1600.3
5°	2559.2	2565.6	2549.5	2513.8	2468.5	2384.2	2290.3	2134.8	1963.1	1930.7	1691.0
7.5°	2821.6	2824.8	2805.4	2769.7	2734.1	2649.9	2555.9	2381.0	2170.4	2144.5	1807.6
10°	3045.1	3051.6	3025.7	3003.0	2964.1	2879.9	2782.7	2598.0	2381.0	2345.4	1927.5
12.5°	3252.4	3258.9	3242.7	3223.3	3210.3	3132.6	3025.7	2805.4	2572.1	2533.3	2070.0
15°	3391.7	3398.2	3401.4	3427.3	3443.5	3388.5	3281.6	3041.8	2779.5	2743.8	2238.5
17.5°	3352.8	3369.0	3417.6	3511.6	3612.0	3615.2	3527.8	3275.1	2983.5	2944.7	2410.2
20°	3239.5	3252.4	3310.7	3453.3	3650.9	3764.2	3757.8	3511.6	3174.7	3132.6	2568.9
22.5°	3333.4	3349.6	3349.6	3437.1	3631.4	3842.0	3926.2	3744.8	3365.8	3326.9	2727.6
25°	3735.1	3744.8	3676.8	3641.1	3712.4	3906.8	4065.5	3997.5	3599.0	3553.7	2899.3
27.5°	4295.5	4279.3	4195.1	4052.6	3974.8	4026.6	4188.6	4237.2	3867.9	3812.8	3077.5
30°	4852.7	4843.0	4745.8	4554.7	4379.7	4269.6	4324.7	4451.0	4159.5	4094.7	3249.2
32.5°	5374.3	5358.1	5251.2	5027.6	4830.0	4625.9	4519.0	4645.4	4470.4	4395.9	3440.3
35°	5853.7	5811.6	5704.7	5471.4	5267.4	5073.0	4810.6	4830.0	4807.4	4729.6	3650.9
37.5°	6242.4	6210.0	6093.4	5876.4	5659.3	5474.7	5199.3	5040.6	5170.2	5095.7	3893.8
40°	6585.8	6550.2	6430.3	6213.3	6012.4	5837.5	5620.5	5296.5	5578.3	5494.1	4165.9
42.5°	6845.0	6819.1	6721.9	6508.1	6313.7	6155.0	6048.1	5620.5	6002.7	5921.7	4464.0
45°	6984.3	6958.3	6906.5	6734.8	6556.7	6433.6	6443.3	6005.9	6446.5	6378.5	4817.1
47.5°	6812.6	6832.0	6877.4	6845.0	6734.8	6676.5	6796.4	6404.4	6942.2	6877.4	5199.3
50°	6352.6	6372.0	6553.4	6776.9	6815.8	6887.1	7113.8	6864.4	7466.9	7415.1	5672.3
52.5°	5222.0	5328.9	5831.0	6365.5	6731.6	7026.4	7466.9	7547.9	8351.3	8351.3	6508.1
55°	3945.7	4039.6	4613.0	5545.9	6404.4	7039.3	7726.1	8011.2	8989.5	9002.4	6945.4
57.5°	3197.3	3255.7	3537.5	4493.1	5717.6	6877.4	8033.8	8409.6	9520.8	9579.1	7509.1
60°	2594.8	2627.2	2811.8	3475.9	4768.5	6440.0	8254.1	8979.8	10278.8	10359.8	8228.2
62.5°	2086.2	2118.6	2241.7	2640.2	3741.6	5620.5	8215.3	9572.6	11289.5	11422.3	9170.9
65°	1665.1	1700.7	1781.7	2027.9	2773.0	4603.3	7816.8	9877.1	12335.8	12465.4	9796.1
67.5°	1299.0	1331.4	1386.5	1548.5	1953.4	3443.5	6874.1	9556.4	12805.6	12915.7	9828.5
70°	981.6	997.8	1043.1	1146.8	1396.2	2287.1	5380.7	8480.9	12384.4	12484.9	9180.6
72.5°	761.3	758.0	783.9	835.8	975.1	1574.4	3566.6	6896.8	10949.4	11053.0	7833.0
75°	622.0	618.7	634.9	651.1	706.2	1056.1	2105.6	5192.8	8837.2	8639.6	5876.4
77.5°	524.8	521.6	537.7	541.0	563.7	728.9	1198.6	3417.6	5895.8	5555.7	3310.7
80°	443.8	440.6	460.0	466.5	482.7	534.5	690.0	1849.7	2960.9	2805.4	1580.9
82.5°	333.7	346.6	382.3	398.5	417.9	395.2	427.6	816.3	1373.5	1312.0	686.8
85°	162.0	191.1	288.3	320.7	343.4	249.4	291.6	385.5	618.7	589.6	278.6
87.5°	55.1	48.6	171.7	204.1	223.5	113.4	162.0	213.8	255.9	233.2	87.5
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°	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5	1535.5
2.5°	1551.7	1503.1	1431.8	1376.8	1341.1	1312.0	1299.0	1295.8	1289.3	1286.1	1286.1
5°	1584.1	1496.6	1386.5	1328.2	1312.0	1299.0	1305.5	1308.7	1308.7	1308.7	1308.7
7.5°	1632.7	1509.6	1376.8	1337.9	1334.7	1334.7	1354.1	1363.8	1370.3	1370.3	1370.3
10°	1697.5	1532.3	1393.0	1360.6	1370.3	1376.8	1399.4	1412.4	1418.9	1422.1	1425.4
12.5°	1784.9	1580.9	1425.4	1399.4	1412.4	1415.6	1431.8	1438.3	1444.8	1448.0	1448.0
15°	1901.6	1652.1	1477.2	1444.8	1448.0	1444.8	1444.8	1438.3	1435.1	1435.1	1441.6
17.5°	2021.4	1720.2	1522.5	1477.2	1464.2	1438.3	1418.9	1402.7	1393.0	1386.5	1389.7
20°	2141.3	1781.7	1548.5	1483.7	1448.0	1405.9	1370.3	1347.6	1334.7	1321.7	1328.2
22.5°	2261.1	1840.0	1558.2	1464.2	1412.4	1350.9	1312.0	1276.3	1247.2	1227.8	1231.0
25°	2394.0	1904.8	1558.2	1441.6	1363.8	1299.0	1250.4	1192.1	1150.0	1133.8	1140.3
27.5°	2526.8	1959.9	1542.0	1399.4	1308.7	1244.0	1172.7	1104.7	1078.7	1069.0	1072.3
30°	2659.6	2002.0	1506.3	1347.6	1250.4	1179.2	1085.2	1039.9	1007.5	981.6	984.8
32.5°	2792.4	2031.1	1457.8	1282.8	1188.9	1098.2	1020.4	968.6	910.3	877.9	881.1
35°	2944.7	2053.8	1399.4	1218.0	1120.9	1026.9	968.6	884.4	822.8	796.9	790.4
37.5°	3103.4	2070.0	1337.9	1146.8	1052.8	975.1	916.8	813.1	754.8	719.2	715.9
40°	3275.1	2076.5	1263.4	1072.3	988.0	942.7	848.7	771.0	670.6	647.9	647.9
42.5°	3479.2	2073.3	1188.9	997.8	916.8	868.2	800.1	764.5	677.0	654.4	641.4
45°	3712.4	2073.3	1107.9	910.3	845.5	774.2	745.1	722.4	664.1	673.8	680.3
47.5°	3978.1	2066.8	1010.7	839.0	787.2	725.6	709.4	660.8	638.2	644.7	651.1
50°	4344.1	2076.5	923.2	780.7	745.1	693.2	673.8	647.9	638.2	641.4	638.2
52.5°	4852.7	2044.1	839.0	745.1	712.7	644.7	644.7	641.4	644.7	641.4	641.4
55°	5131.3	1972.8	777.5	725.6	690.0	622.0	634.9	641.4	647.9	644.7	644.7
57.5°	5526.5	1924.2	728.9	712.7	677.0	615.5	628.5	641.4	644.7	641.4	641.4
60°	5993.0	1891.8	696.5	715.9	667.3	615.5	631.7	641.4	638.2	634.9	634.9
62.5°	6534.0	1878.9	673.8	725.6	657.6	618.7	631.7	641.4	628.5	625.2	625.2
65°	6738.1	1762.3	644.7	732.1	664.1	618.7	628.5	631.7	615.5	612.3	609.0
67.5°	6423.8	1561.4	602.5	719.2	683.5	618.7	618.7	615.5	596.1	592.8	586.3
70°	5720.9	1295.8	537.7	677.0	696.5	622.0	605.8	589.6	570.1	570.1	557.2
72.5°	4684.3	1020.4	453.5	602.5	686.8	631.7	579.9	557.2	534.5	534.5	521.6
75°	3375.5	761.3	362.8	502.1	644.7	628.5	547.5	518.3	492.4	489.2	473.0
77.5°	1924.2	534.5	294.8	392.0	573.4	612.3	518.3	473.0	443.8	434.1	424.4
80°	988.0	359.6	239.7	307.7	476.2	566.9	495.6	421.1	388.7	372.5	356.3
82.5°	469.7	239.7	184.6	226.8	359.6	495.6	466.5	362.8	327.2	307.7	288.3
85°	210.6	142.5	123.1	145.8	255.9	385.5	411.4	298.0	255.9	320.7	236.5
87.5°	68.0	64.8	64.8	68.0	123.1	168.5	301.3	220.3	204.1	168.5	142.5
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)