

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: P399697

Luminaire Tested: **ARCH-L-PA3-180-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399697
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-PA3-180-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22521 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

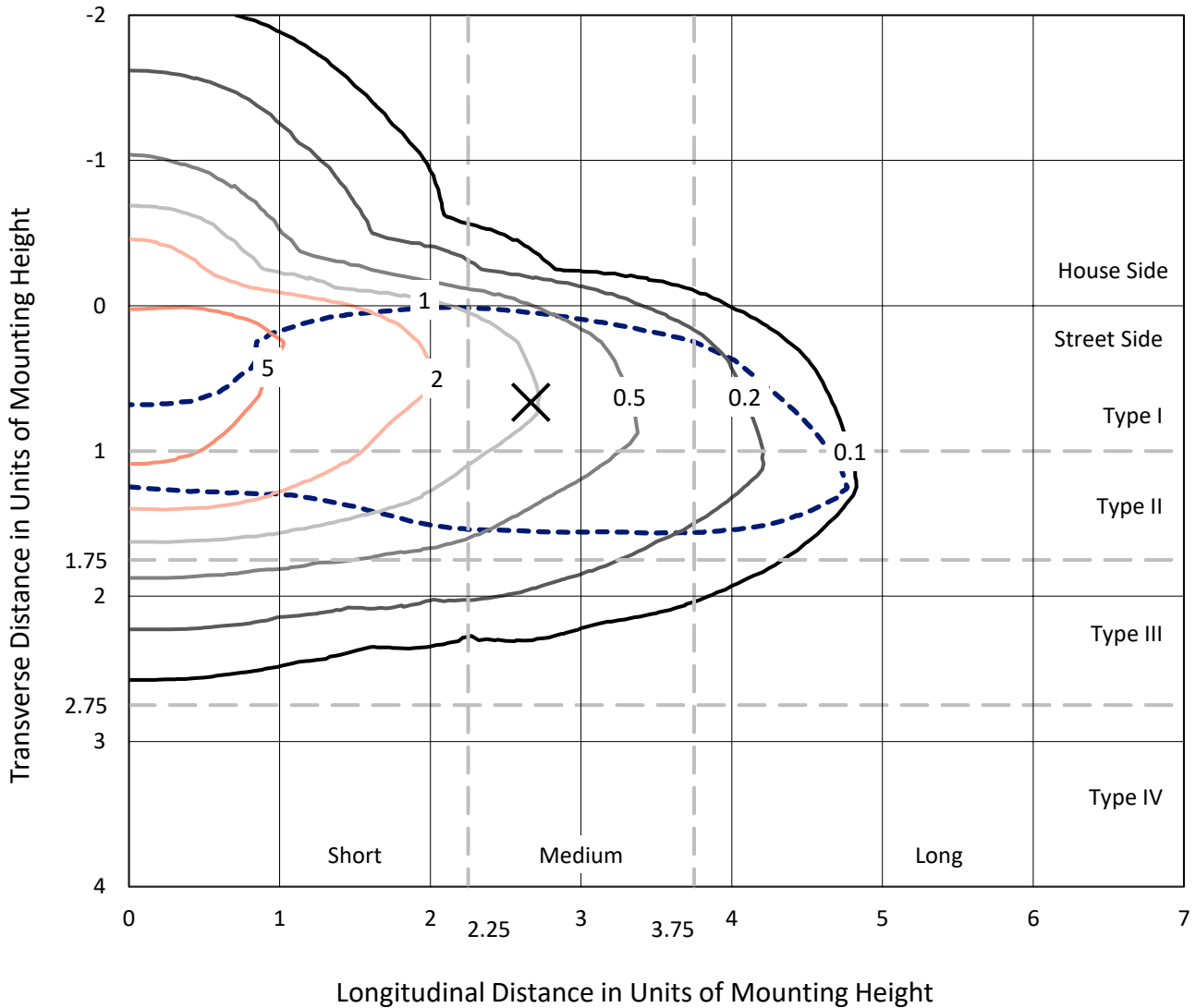
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

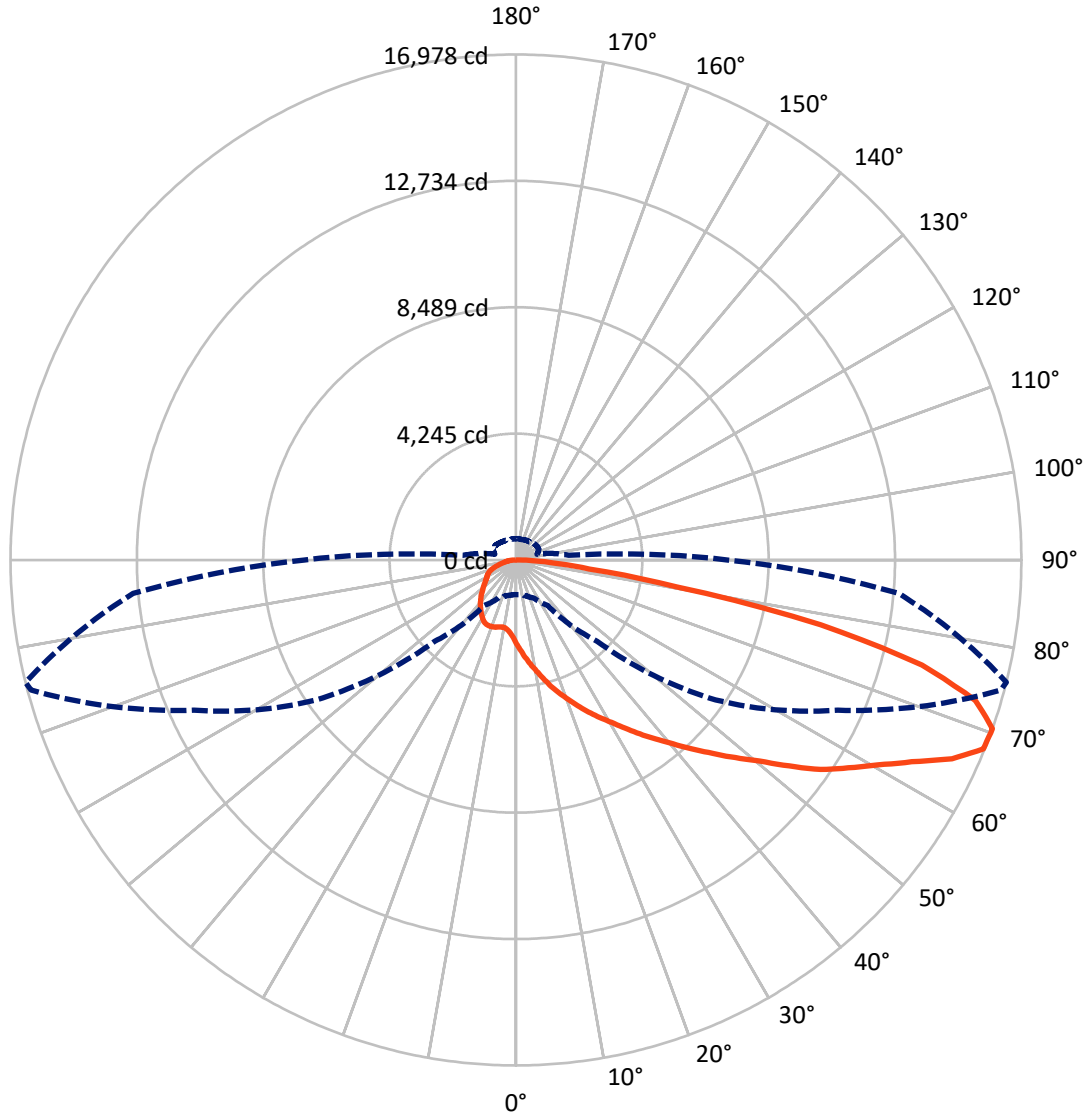
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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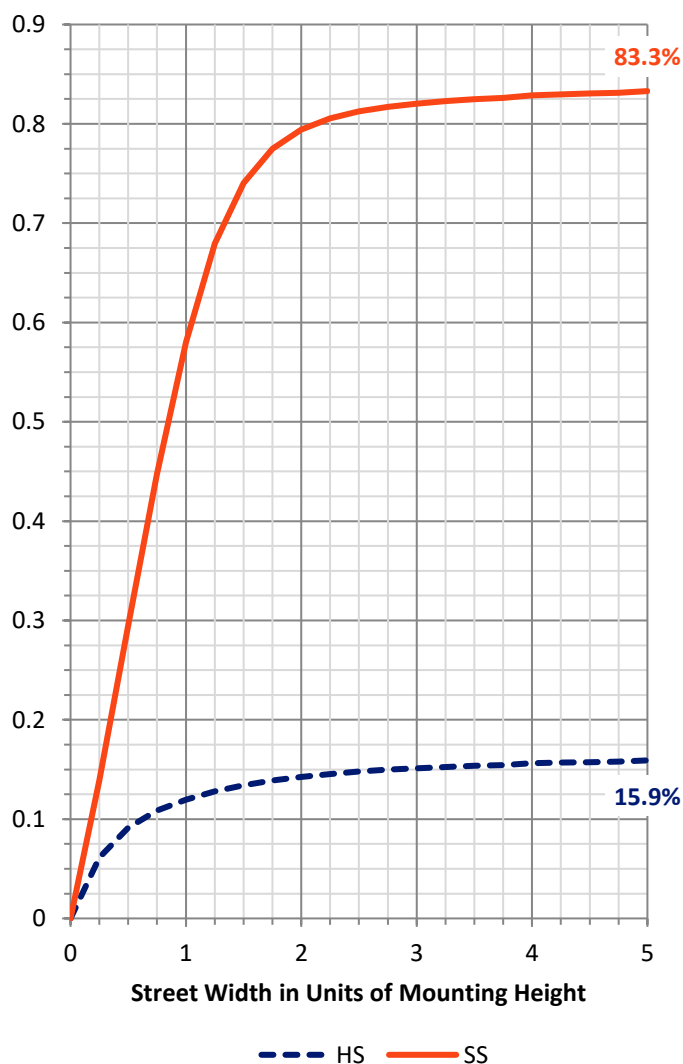
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3676.8	0.0	3676.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18844.2	0.0	18844.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	22521.0	0.0	22521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.3
10°-20°	994.6	4.4
20°-30°	1779.4	7.9
30°-40°	2878.4	12.8
40°-50°	4164.1	18.5
50°-60°	4766.0	21.2
60°-70°	4384.2	19.5
70°-80°	2711.1	12.0
80°-90°	550.5	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°	22521.0	100.0
0°-180°	22521.0	100.0

Coefficient of Utilization



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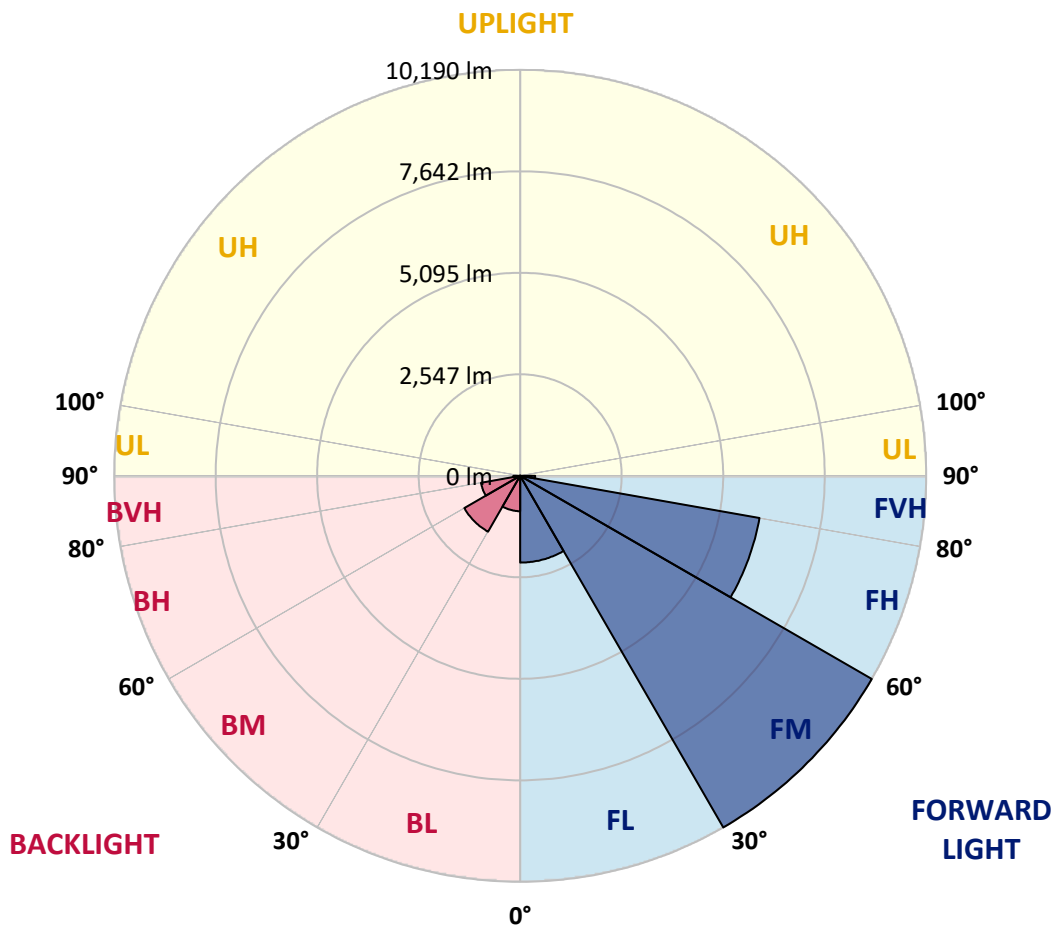
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.5	9.7			
FM (30°-60°)	10189.7	45.2			
FH (60°-80°)	6098.1	27.1			G3/7500
FVH (80°-90°)	377.9	1.7			G3/500
BL (0°-30°)	888.1	3.9	B2/1000		
BM (30°-60°)	1618.9	7.2	B2/2500		
BH (60°-80°)	997.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	172.6	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	3589.3	3562.6	3559.7	3518.2	3479.7	3376.1	3302.0	3171.7	3041.4	3038.5	2908.2
5°	4149.0	4122.4	4107.5	4057.2	3992.0	3855.8	3722.6	3521.2	3299.1	3284.3	3038.5
7.5°	4528.1	4504.4	4474.8	4454.0	4391.8	4270.4	4107.5	3867.7	3562.6	3533.0	3189.5
10°	4782.8	4767.9	4762.0	4747.2	4708.7	4611.0	4454.0	4199.3	3826.2	3793.6	3349.4
12.5°	4892.3	4886.4	4913.1	4954.5	4969.3	4930.8	4779.8	4539.9	4116.4	4080.9	3541.9
15°	4765.0	4770.9	4839.0	4981.2	5132.2	5215.1	5126.3	4892.3	4445.1	4394.8	3767.0
17.5°	4705.8	4714.6	4762.0	4898.3	5111.5	5369.1	5410.6	5227.0	4762.0	4691.0	4003.9
20°	4809.4	4821.3	4856.8	4963.4	5111.5	5386.9	5603.1	5546.8	5073.0	4998.9	4231.9
22.5°	5073.0	5087.8	5084.8	5152.9	5253.6	5443.2	5709.7	5848.9	5398.7	5315.8	4468.8
25°	5635.7	5623.8	5523.1	5490.5	5517.2	5638.6	5851.8	6139.1	5739.3	5656.4	4717.6
27.5°	6399.7	6384.9	6201.3	6035.5	5887.4	5940.7	6053.2	6373.1	6085.8	5991.0	4954.5
30°	7217.1	7199.3	6986.1	6716.6	6387.9	6310.9	6296.1	6577.4	6435.3	6334.6	5206.2
32.5°	8013.7	7998.9	7770.9	7457.0	7003.9	6772.9	6630.7	6805.4	6832.1	6734.4	5481.7
35°	8739.3	8739.3	8543.8	8170.7	7658.3	7308.9	7074.9	7086.8	7288.2	7175.6	5795.6
37.5°	9384.9	9381.9	9168.7	8801.5	8309.9	7910.1	7619.8	7427.3	7723.5	7625.8	6124.3
40°	9897.2	9876.5	9719.5	9399.7	8905.1	8508.3	8215.1	7827.1	8209.2	8120.3	6473.7
42.5°	10270.3	10258.5	10151.9	9873.5	9402.6	9029.5	8828.1	8330.6	8760.0	8671.2	6882.4
45°	10415.5	10439.1	10439.1	10175.6	9802.4	9461.9	9373.0	8884.4	9355.2	9266.4	7320.7
47.5°	10181.5	10243.7	10371.0	10388.8	10060.1	9829.1	9858.7	9441.1	9968.3	9920.9	7800.5
50°	9450.0	9565.5	9843.9	10347.3	10163.7	10110.4	10273.3	10009.7	10625.7	10610.9	8383.9
52.5°	7563.6	7844.9	8712.6	9615.9	10092.7	10240.7	10684.9	10649.4	11472.7	11496.4	9145.0
55°	5801.5	5908.1	6912.0	8449.0	9657.3	10199.3	10960.4	11274.3	12390.7	12420.4	9843.9
57.5°	4691.0	4762.0	5309.9	6912.0	8665.2	9974.2	11176.5	11638.5	13095.6	13172.6	10465.8
60°	3716.6	3820.3	4187.5	5289.2	7276.3	9432.2	11327.6	12044.3	13853.7	13969.2	11209.1
62.5°	2763.0	2813.4	3159.9	3918.0	5760.0	8457.9	11247.6	12485.5	14783.6	14922.8	12103.5
65°	1966.4	2010.8	2256.6	2786.7	4258.6	7140.1	10782.7	12814.2	15950.4	16092.6	13003.8
67.5°	1471.8	1489.6	1628.8	1948.6	2869.7	5546.8	9840.9	12758.0	16803.3	16930.7	13365.1
70°	1163.9	1169.8	1237.9	1409.7	1865.7	3861.7	8191.4	11931.7	16865.5	16978.0	12909.0
72.5°	965.4	962.5	1001.0	1083.9	1300.1	2443.2	6068.0	10397.7	16065.9	16142.9	11635.6
75°	796.6	802.6	829.2	876.6	992.1	1611.0	3932.8	8295.0	14173.5	14090.6	9763.9
77.5°	669.3	666.3	678.2	719.6	802.6	1157.9	2304.0	5994.0	10504.3	10462.8	6408.6
80°	539.0	544.9	562.7	598.2	675.2	882.5	1362.3	3740.3	5635.7	5484.6	3062.1
82.5°	361.3	417.6	453.1	494.6	583.4	651.5	864.7	1901.3	2520.2	2481.7	1388.9
85°	171.8	228.0	337.6	385.0	473.8	408.7	586.4	906.2	1261.6	1246.8	500.5
87.5°	35.5	35.5	180.6	216.2	293.2	174.7	325.8	393.9	610.1	571.6	204.3
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°	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3	2816.3
2.5°	2831.2	2751.2	2591.3	2463.9	2333.6	2259.6	2167.8	2123.4	2114.5	2090.8	2108.6
5°	2881.5	2724.5	2422.5	2224.1	2090.8	2025.6	1993.1	1981.2	1978.3	1972.3	1972.3
7.5°	2949.6	2709.7	2315.9	2114.5	2028.6	2007.9	2016.8	2034.5	2037.5	2043.4	2040.4
10°	3032.5	2712.7	2256.6	2087.8	2046.4	2049.3	2078.9	2102.6	2114.5	2123.4	2120.4
12.5°	3148.0	2748.2	2247.7	2105.6	2087.8	2099.7	2129.3	2153.0	2164.8	2167.8	2167.8
15°	3299.1	2822.3	2268.5	2144.1	2129.3	2138.2	2155.9	2164.8	2167.8	2164.8	2164.8
17.5°	3464.9	2911.1	2298.1	2167.8	2144.1	2135.2	2129.3	2120.4	2102.6	2090.8	2090.8
20°	3624.8	2991.1	2312.9	2164.8	2123.4	2087.8	2052.3	2007.9	1978.3	1954.6	1954.6
22.5°	3784.7	3065.1	2312.9	2132.3	2067.1	1999.0	1924.9	1853.9	1809.5	1779.8	1779.8
25°	3953.5	3136.2	2295.1	2076.0	1978.3	1880.5	1779.8	1691.0	1646.6	1617.0	1611.0
27.5°	4095.7	3177.6	2247.7	1996.0	1868.7	1744.3	1628.8	1537.0	1504.4	1477.8	1477.8
30°	4246.7	3204.3	2158.9	1892.4	1744.3	1602.1	1483.7	1409.7	1374.1	1335.6	1332.7
32.5°	4415.5	3222.1	2058.2	1782.8	1617.0	1465.9	1365.2	1306.0	1229.0	1187.5	1181.6
35°	4611.0	3245.8	1951.6	1658.4	1489.6	1353.4	1294.2	1196.4	1122.4	1086.9	1083.9
37.5°	4818.3	3263.5	1836.1	1548.8	1374.1	1279.4	1220.1	1104.6	1039.5	986.2	980.2
40°	5037.4	3263.5	1717.6	1442.2	1282.3	1246.8	1134.2	1030.6	921.0	894.4	888.4
42.5°	5280.3	3257.6	1599.2	1338.6	1196.4	1172.7	1083.9	974.3	918.1	894.4	888.4
45°	5537.9	3236.9	1486.7	1220.1	1107.6	1060.2	992.1	962.5	938.8	938.8	938.8
47.5°	5831.1	3219.1	1359.3	1113.5	1042.4	989.1	938.8	921.0	918.1	926.9	935.8
50°	6207.2	3213.2	1252.7	1036.5	992.1	929.9	924.0	909.2	912.1	912.1	912.1
52.5°	6663.3	3159.9	1152.0	980.2	941.7	867.7	885.5	900.3	906.2	903.2	900.3
55°	6997.9	3065.1	1066.1	941.7	906.2	844.0	867.7	891.4	897.3	888.4	888.4
57.5°	7300.0	2931.8	998.0	912.1	882.5	829.2	855.9	879.6	873.6	870.7	867.7
60°	7646.5	2804.5	944.7	897.3	858.8	823.3	847.0	861.8	852.9	847.0	844.0
62.5°	8022.6	2680.1	906.2	897.3	841.1	820.3	838.1	844.0	826.2	820.3	820.3
65°	8197.3	2484.7	864.7	897.3	832.2	814.4	820.3	814.4	796.6	796.6	793.7
67.5°	7910.1	2161.9	811.4	885.5	844.0	805.5	793.7	784.8	764.1	764.1	758.1
70°	7116.4	1776.9	734.4	847.0	847.0	802.6	758.1	737.4	713.7	722.6	710.8
72.5°	6079.9	1409.7	639.7	781.8	829.2	799.6	719.6	687.1	666.3	675.2	657.4
75°	4924.9	1092.8	527.1	678.2	784.8	784.8	681.1	636.7	613.0	613.0	592.3
77.5°	3139.1	808.5	429.4	562.7	704.8	764.1	648.6	580.4	544.9	536.0	521.2
80°	1554.8	568.6	352.4	447.2	601.2	716.7	624.9	515.3	464.9	447.2	420.5
82.5°	826.2	393.9	281.3	349.5	479.8	645.6	595.3	444.2	382.0	355.4	325.8
85°	370.2	242.8	225.1	266.5	364.3	530.1	536.0	364.3	293.2	349.5	257.6
87.5°	136.2	109.6	109.6	136.2	210.3	222.1	379.1	234.0	186.6	127.3	100.7
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)