

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: P399310

Luminaire Tested: **ARCH-L-PA3-120-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399310
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-PA3-120-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14589 lumens
Efficiency: N/A
Efficacy: 118.6 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

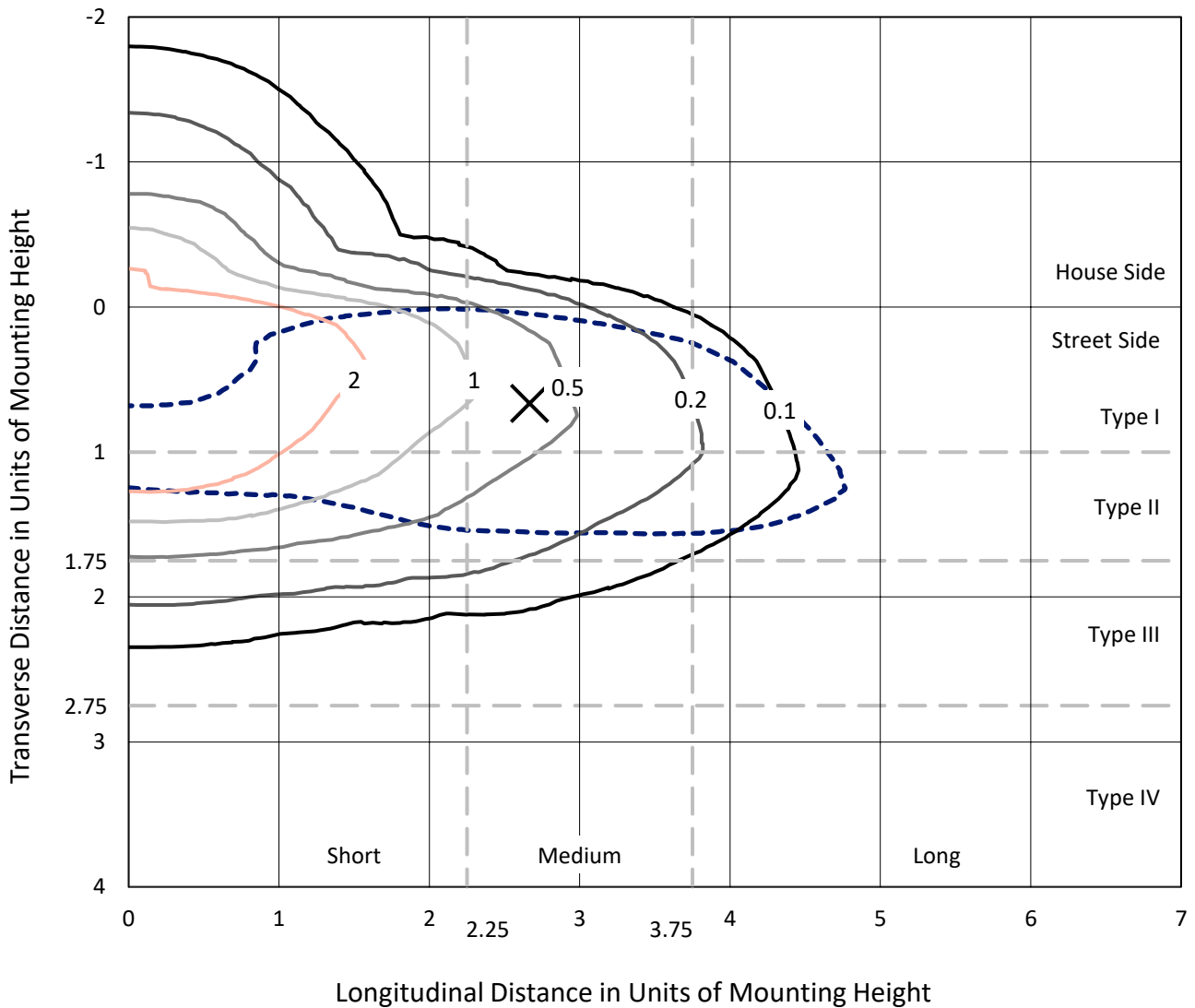
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

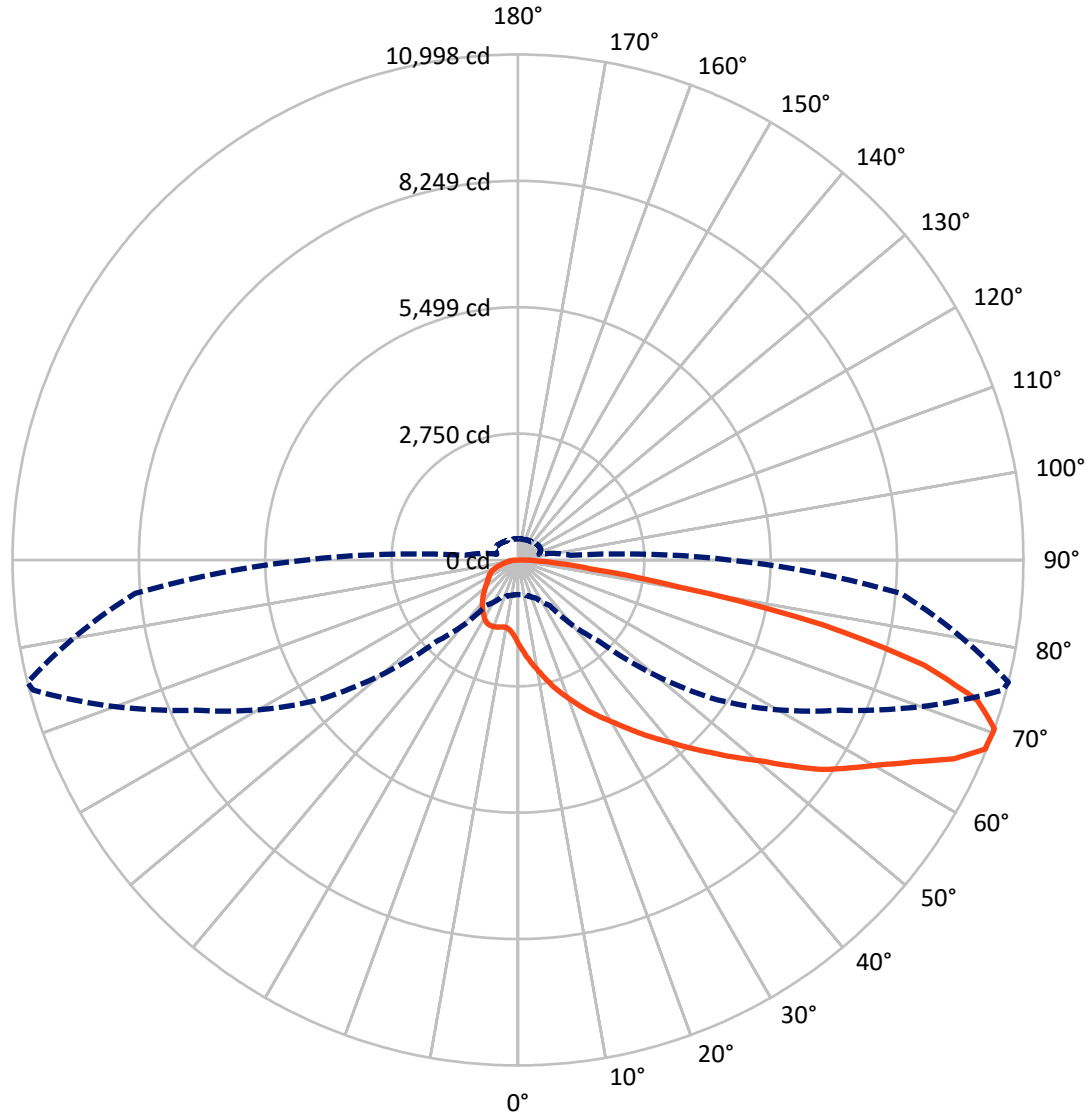
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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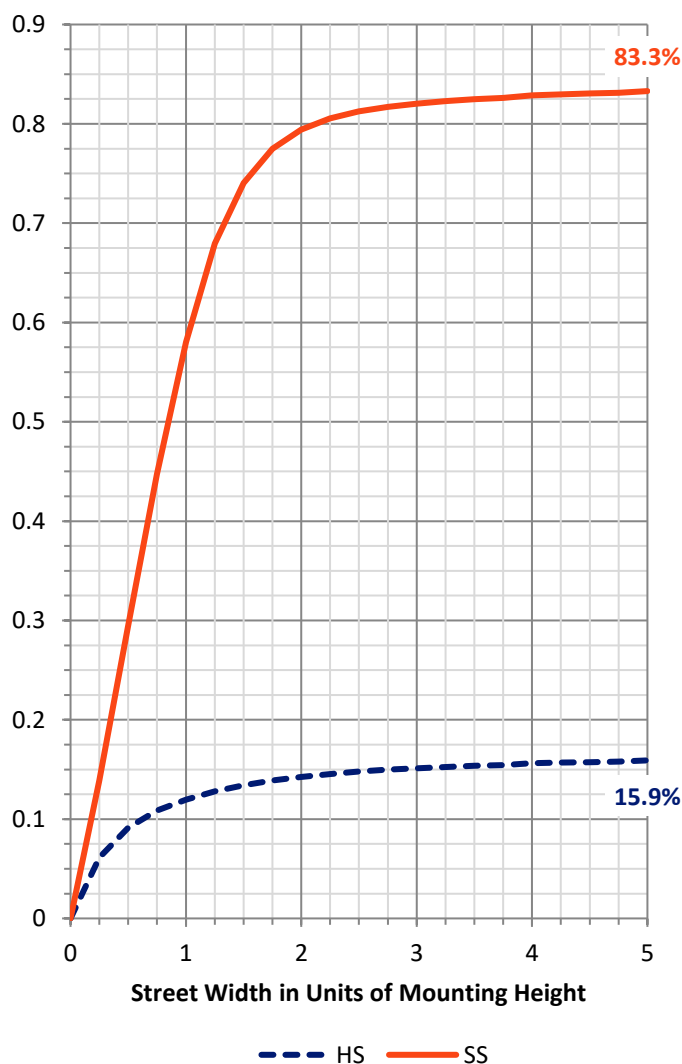
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.8	0.0	2381.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12207.2	0.0	12207.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	14589.0	0.0	14589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.3
10°-20°	644.3	4.4
20°-30°	1152.7	7.9
30°-40°	1864.6	12.8
40°-50°	2697.5	18.5
50°-60°	3087.4	21.2
60°-70°	2840.1	19.5
70°-80°	1756.3	12.0
80°-90°	356.6	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°	14589.0	100.0
0°-180°	14589.0	100.0

Coefficient of Utilization



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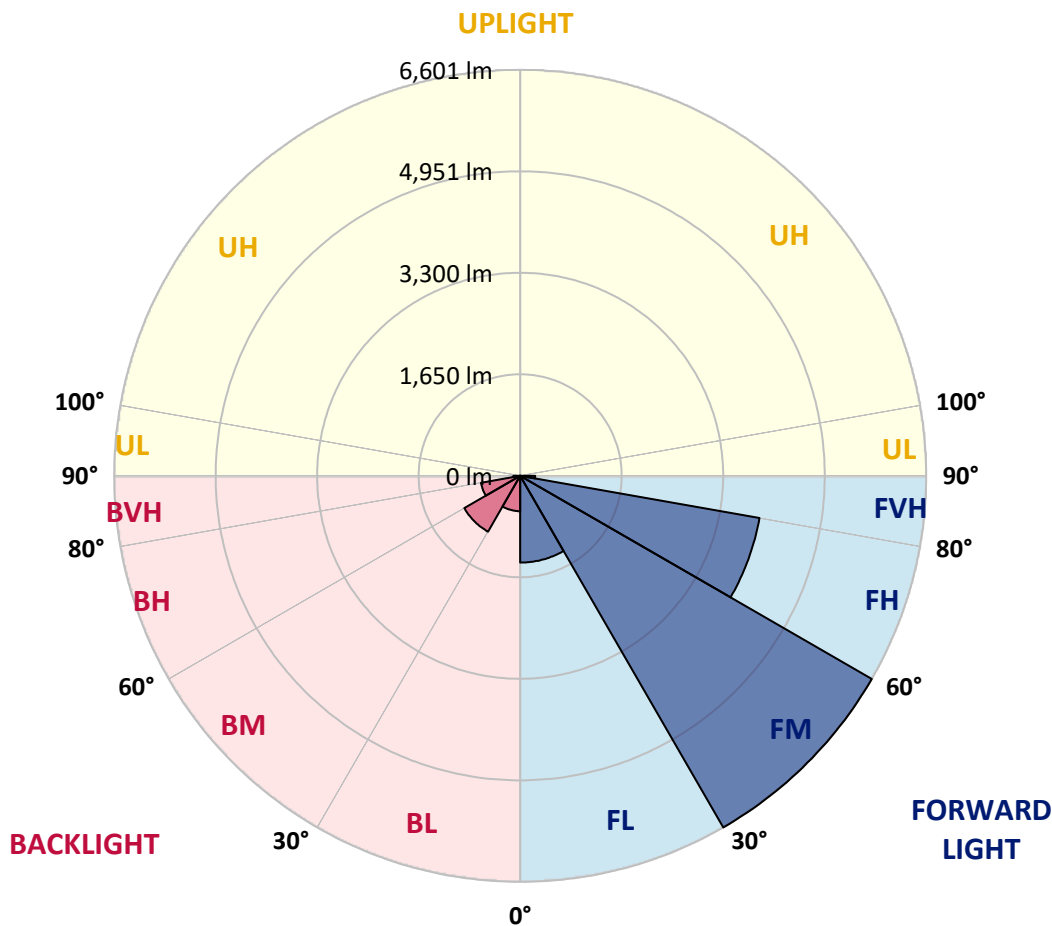
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.2	9.7			
FM (30°-60°)	6600.8	45.2			
FH (60°-80°)	3950.3	27.1			G2/5000
FVH (80°-90°)	244.8	1.7			G3/500
BL (0°-30°)	575.3	3.9	B2/1000		
BM (30°-60°)	1048.7	7.2	B2/2500		
BH (60°-80°)	646.0	4.4	B2/1000		G2/1000
BVH (80°-90°)	111.8	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°	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4
2.5°	2325.1	2307.9	2305.9	2279.1	2254.1	2187.0	2139.0	2054.6	1970.2	1968.3	1883.9
5°	2687.7	2670.4	2660.8	2628.2	2586.0	2497.8	2411.5	2281.0	2137.1	2127.5	1968.3
7.5°	2933.3	2917.9	2898.7	2885.3	2845.0	2766.4	2660.8	2505.5	2307.9	2288.7	2066.1
10°	3098.2	3088.7	3084.8	3075.2	3050.3	2987.0	2885.3	2720.3	2478.6	2457.5	2169.7
12.5°	3169.2	3165.4	3182.7	3209.5	3219.1	3194.2	3096.3	2940.9	2666.6	2643.6	2294.4
15°	3086.7	3090.6	3134.7	3226.8	3324.6	3378.3	3320.8	3169.2	2879.5	2846.9	2440.2
17.5°	3048.4	3054.1	3084.8	3173.1	3311.2	3478.1	3505.0	3386.0	3084.8	3038.8	2593.7
20°	3115.5	3123.2	3146.2	3215.3	3311.2	3489.6	3629.6	3593.2	3286.3	3238.3	2741.4
22.5°	3286.3	3295.8	3293.9	3338.0	3403.3	3526.1	3698.7	3788.9	3497.3	3443.6	2894.9
25°	3650.8	3643.1	3577.9	3556.7	3574.0	3652.7	3790.8	3976.9	3717.9	3664.2	3056.0
27.5°	4145.7	4136.1	4017.2	3909.7	3813.8	3848.3	3921.2	4128.4	3942.4	3881.0	3209.5
30°	4675.2	4663.7	4525.6	4351.0	4138.0	4088.2	4078.6	4260.8	4168.7	4103.5	3372.6
32.5°	5191.2	5181.7	5033.9	4830.6	4537.1	4387.4	4295.3	4408.5	4425.8	4362.5	3551.0
35°	5661.3	5661.3	5534.6	5292.9	4961.0	4734.7	4583.1	4590.8	4721.2	4648.3	3754.3
37.5°	6079.5	6077.6	5939.4	5701.5	5383.1	5124.1	4936.1	4811.4	5003.2	4939.9	3967.3
40°	6411.4	6397.9	6296.3	6089.1	5768.7	5511.6	5321.7	5070.4	5317.9	5260.3	4193.7
42.5°	6653.1	6645.4	6576.3	6396.0	6091.0	5849.3	5718.8	5396.5	5674.7	5617.1	4458.4
45°	6747.1	6762.4	6762.4	6591.7	6350.0	6129.4	6071.8	5755.3	6060.3	6002.7	4742.3
47.5°	6595.5	6635.8	6718.3	6729.8	6516.9	6367.2	6386.4	6115.9	6457.4	6426.7	5053.1
50°	6121.7	6196.5	6376.8	6703.0	6584.0	6549.5	6655.0	6484.3	6883.3	6873.7	5431.0
52.5°	4899.6	5081.9	5644.0	6229.1	6538.0	6633.9	6921.7	6898.6	7432.0	7447.3	5924.1
55°	3758.2	3827.2	4477.6	5473.3	6256.0	6607.0	7100.1	7303.4	8026.7	8045.9	6376.8
57.5°	3038.8	3084.8	3439.7	4477.6	5613.3	6461.2	7240.1	7539.4	8483.3	8533.1	6779.7
60°	2407.6	2474.8	2712.6	3426.3	4713.6	6110.2	7338.0	7802.2	8974.4	9049.2	7261.2
62.5°	1789.9	1822.5	2047.0	2538.1	3731.3	5479.0	7286.2	8088.1	9576.7	9666.9	7840.6
65°	1273.8	1302.6	1461.8	1805.2	2758.7	4625.3	6985.0	8301.0	10332.6	10424.7	8423.8
67.5°	953.5	965.0	1055.1	1262.3	1858.9	3593.2	6374.9	8264.6	10885.1	10967.6	8657.8
70°	753.9	757.8	801.9	913.2	1208.6	2501.6	5306.3	7729.3	10925.4	10998.3	8362.4
72.5°	625.4	623.5	648.4	702.1	842.2	1582.7	3930.8	6735.6	10407.4	10457.3	7537.5
75°	516.1	519.9	537.2	567.9	642.7	1043.6	2547.7	5373.5	9181.6	9127.8	6325.0
77.5°	433.6	431.6	439.3	466.2	519.9	750.1	1492.5	3882.9	6804.6	6777.8	4151.5
80°	349.2	353.0	364.5	387.5	437.4	571.7	882.5	2423.0	3650.8	3552.9	1983.6
82.5°	234.0	270.5	293.5	320.4	377.9	422.1	560.2	1231.6	1632.6	1607.6	899.7
85°	111.3	147.7	218.7	249.4	306.9	264.7	379.8	587.0	817.2	807.7	324.2
87.5°	23.0	23.0	117.0	140.0	189.9	113.2	211.0	255.1	395.2	370.3	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°	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4
2.5°	1834.0	1782.2	1678.6	1596.1	1511.7	1463.8	1404.3	1375.5	1369.8	1354.4	1365.9
5°	1866.6	1764.9	1569.3	1440.7	1354.4	1312.2	1291.1	1283.4	1281.5	1277.7	1277.7
7.5°	1910.7	1755.4	1500.2	1369.8	1314.1	1300.7	1306.4	1318.0	1319.9	1323.7	1321.8
10°	1964.5	1757.3	1461.8	1352.5	1325.6	1327.5	1346.7	1362.1	1369.8	1375.5	1373.6
12.5°	2039.3	1780.3	1456.1	1364.0	1352.5	1360.2	1379.3	1394.7	1402.4	1404.3	1404.3
15°	2137.1	1828.3	1469.5	1388.9	1379.3	1385.1	1396.6	1402.4	1404.3	1402.4	1402.4
17.5°	2244.6	1885.8	1488.7	1404.3	1388.9	1383.2	1379.3	1373.6	1362.1	1354.4	1354.4
20°	2348.1	1937.6	1498.3	1402.4	1375.5	1352.5	1329.5	1300.7	1281.5	1266.2	1266.2
22.5°	2451.7	1985.6	1498.3	1381.3	1339.1	1294.9	1247.0	1200.9	1172.2	1153.0	1153.0
25°	2561.1	2031.6	1486.8	1344.8	1281.5	1218.2	1153.0	1095.4	1066.6	1047.5	1043.6
27.5°	2653.2	2058.5	1456.1	1293.0	1210.5	1129.9	1055.1	995.7	974.6	957.3	957.3
30°	2751.0	2075.7	1398.5	1225.9	1129.9	1037.9	961.1	913.2	890.1	865.2	863.3
32.5°	2860.4	2087.2	1333.3	1154.9	1047.5	949.6	884.4	846.0	796.1	769.3	765.4
35°	2987.0	2102.6	1264.2	1074.3	965.0	876.7	838.3	775.0	727.1	704.1	702.1
37.5°	3121.3	2114.1	1189.4	1003.3	890.1	828.8	790.4	715.6	673.4	638.8	635.0
40°	3263.2	2114.1	1112.7	934.3	830.7	807.7	734.8	667.6	596.6	579.4	575.5
42.5°	3420.5	2110.3	1035.9	867.1	775.0	759.7	702.1	631.2	594.7	579.4	575.5
45°	3587.4	2096.8	963.0	790.4	717.5	686.8	642.7	623.5	608.1	608.1	608.1
47.5°	3777.4	2085.3	880.6	721.3	675.3	640.8	608.1	596.6	594.7	600.5	606.2
50°	4021.0	2081.5	811.5	671.4	642.7	602.4	598.5	589.0	590.9	590.9	590.9
52.5°	4316.4	2047.0	746.3	635.0	610.1	562.1	573.6	583.2	587.0	585.1	583.2
55°	4533.2	1985.6	690.6	610.1	587.0	546.7	562.1	577.4	581.3	575.5	575.5
57.5°	4728.9	1899.2	646.5	590.9	571.7	537.2	554.4	569.8	565.9	564.0	562.1
60°	4953.4	1816.7	612.0	581.3	556.3	533.3	548.7	558.3	552.5	548.7	546.7
62.5°	5197.0	1736.2	587.0	581.3	544.8	531.4	542.9	546.7	535.2	531.4	531.4
65°	5310.2	1609.6	560.2	581.3	539.1	527.6	531.4	527.6	516.1	516.1	514.1
67.5°	5124.1	1400.4	525.6	573.6	546.7	521.8	514.1	508.4	495.0	495.0	491.1
70°	4610.0	1151.1	475.8	548.7	548.7	519.9	491.1	477.7	462.3	468.1	460.4
72.5°	3938.5	913.2	414.4	506.5	537.2	518.0	466.2	445.1	431.6	437.4	425.9
75°	3190.3	707.9	341.5	439.3	508.4	508.4	441.2	412.5	397.1	397.1	383.7
77.5°	2033.5	523.7	278.2	364.5	456.6	495.0	420.1	376.0	353.0	347.2	337.6
80°	1007.2	368.3	228.3	289.7	389.4	464.3	404.8	333.8	301.2	289.7	272.4
82.5°	535.2	255.1	182.2	226.4	310.8	418.2	385.6	287.8	247.5	230.2	211.0
85°	239.8	157.3	145.8	172.7	236.0	343.4	347.2	236.0	189.9	226.4	166.9
87.5°	88.2	71.0	71.0	88.2	136.2	143.9	245.6	151.6	120.9	82.5	65.2
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)