

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: P399238

Luminaire Tested: **ARCH-L-PA3-110-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399238
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-PA3-110-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 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: 13536 lumens
Efficiency: N/A
Efficacy: 119.8 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

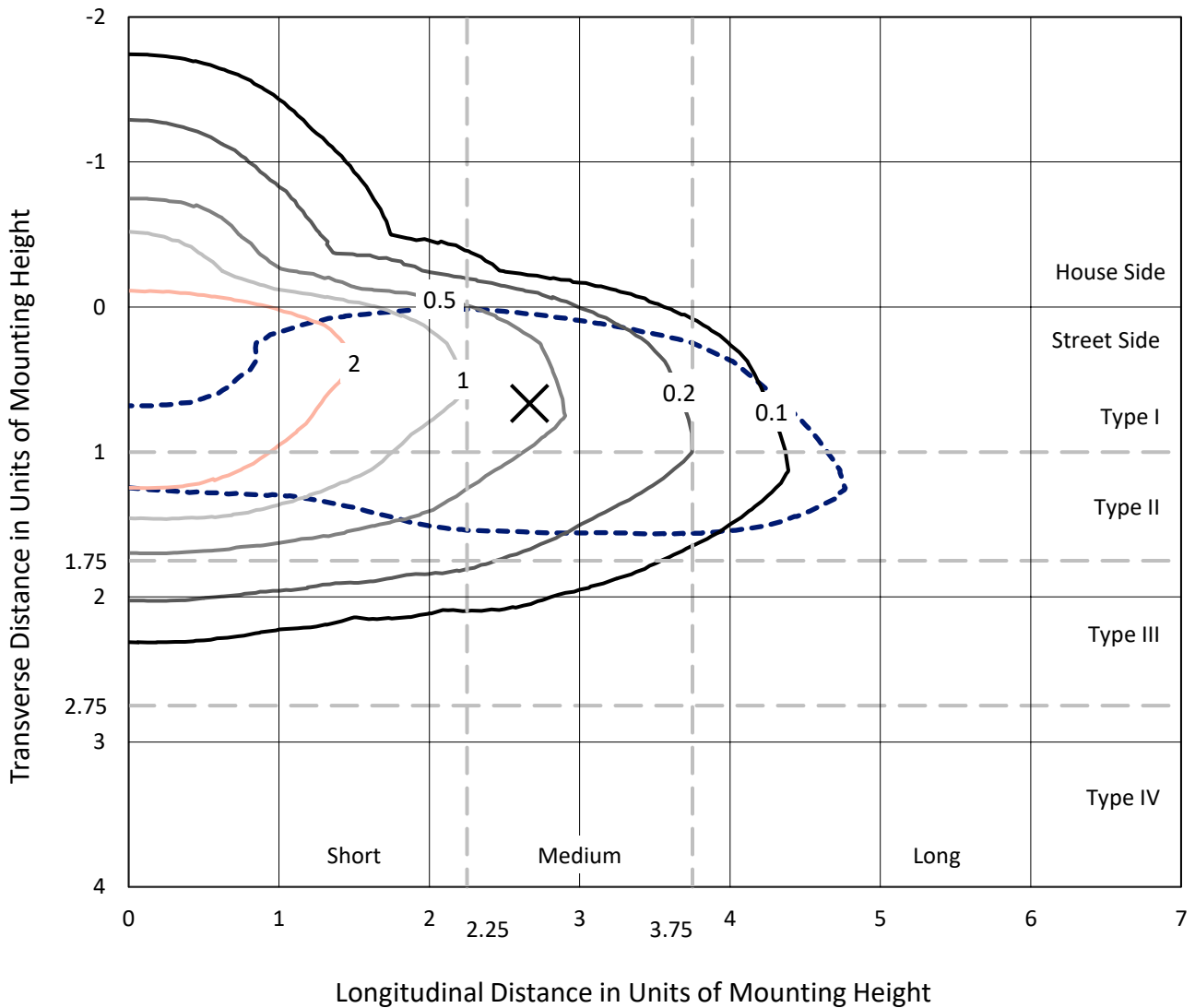
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

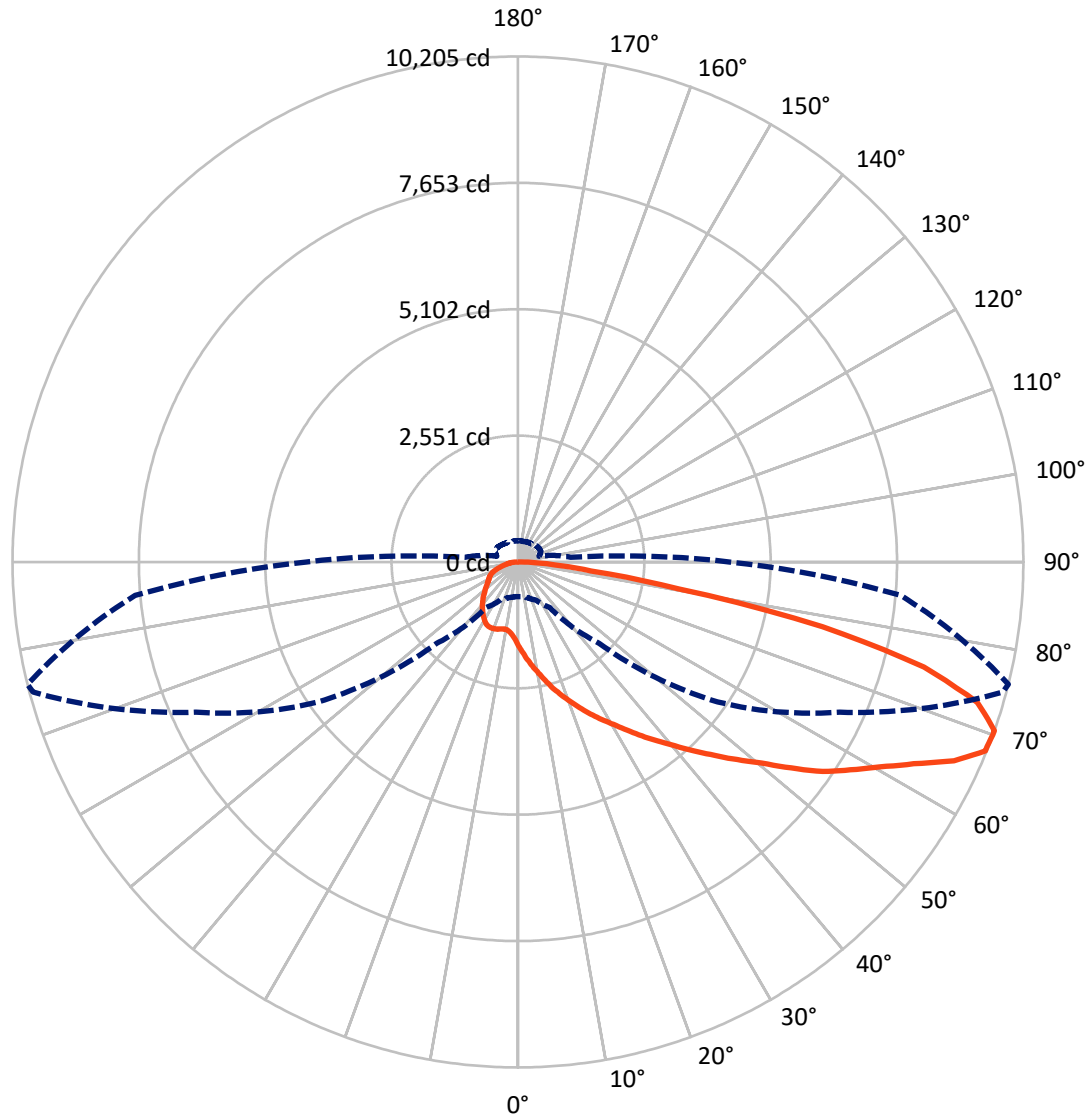
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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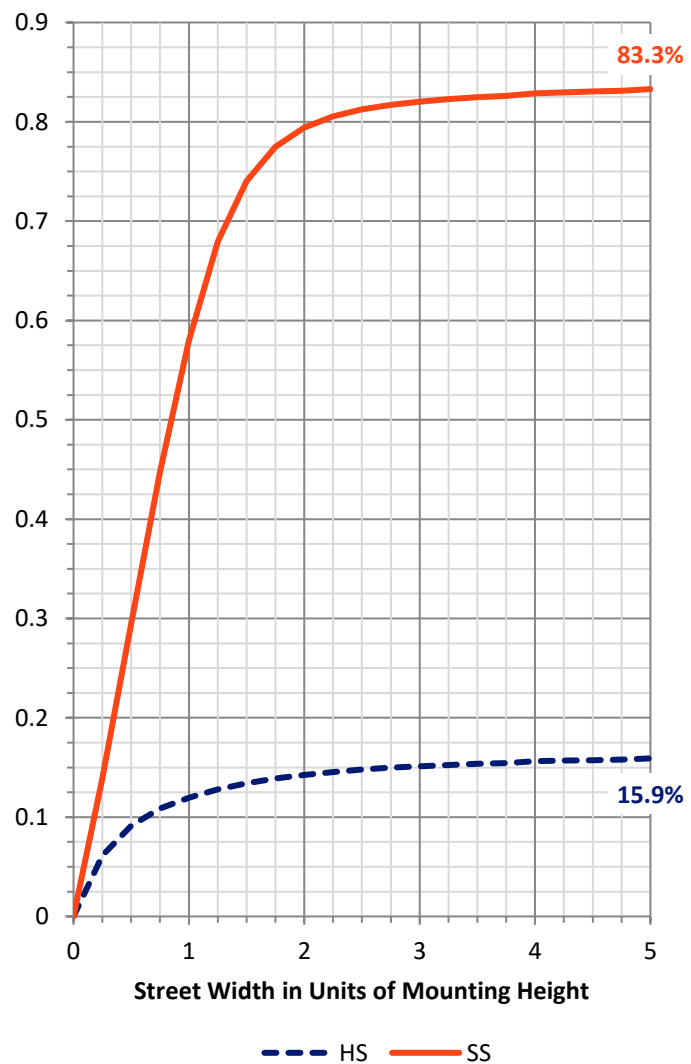
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2209.9	0.0	2209.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11326.1	0.0	11326.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	13536.0	0.0	13536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.3
10°-20°	597.8	4.4
20°-30°	1069.5	7.9
30°-40°	1730.0	12.8
40°-50°	2502.8	18.5
50°-60°	2864.6	21.2
60°-70°	2635.1	19.5
70°-80°	1629.5	12.0
80°-90°	330.9	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°	13536.0	100.0
0°-180°	13536.0	100.0



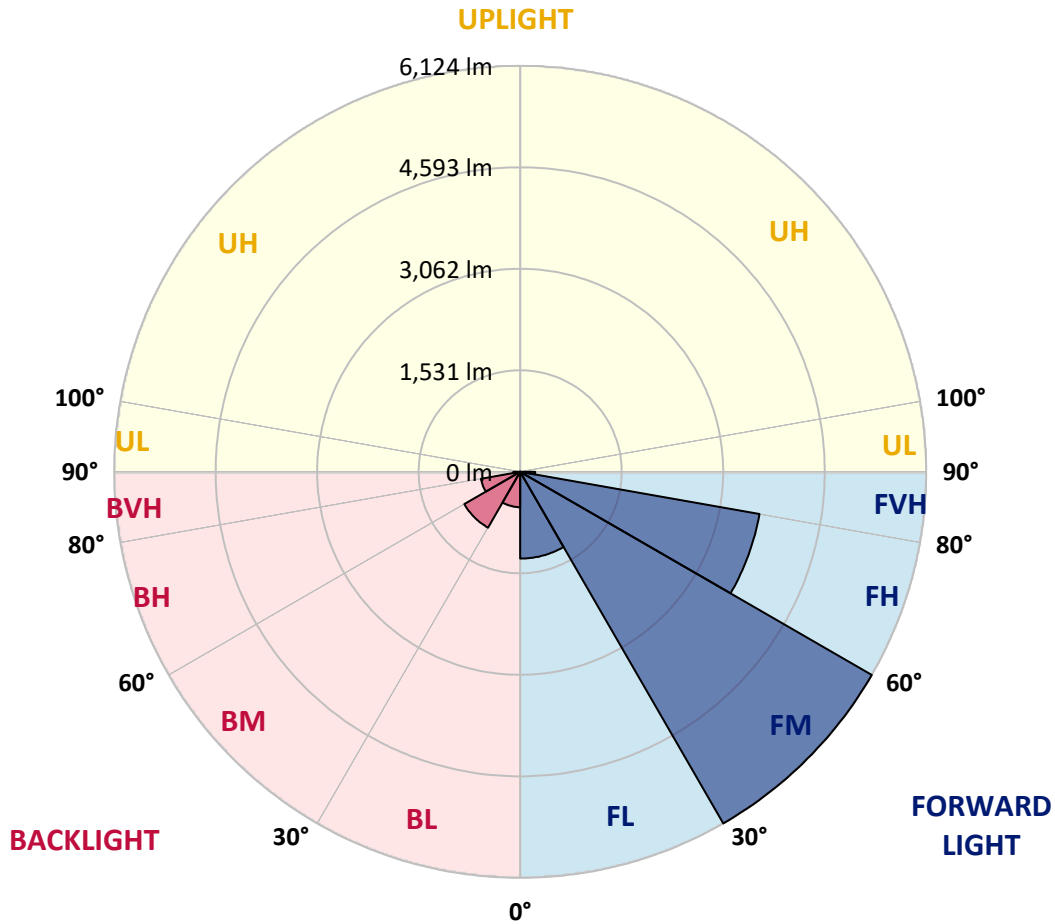
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.4	9.7			
FM (30°-60°)	6124.4	45.2			
FH (60°-80°)	3665.2	27.1			G2/5000
FVH (80°-90°)	227.2	1.7			G3/500
BL (0°-30°)	533.8	3.9	B2/1000		
BM (30°-60°)	973.0	7.2	B1/1000		
BH (60°-80°)	599.4	4.4	B2/1000		G2/1000
BVH (80°-90°)	103.7	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°	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7
2.5°	2157.3	2141.3	2139.5	2114.6	2091.4	2029.1	1984.6	1906.3	1828.0	1826.2	1747.9
5°	2493.7	2477.7	2468.8	2438.5	2399.4	2317.5	2237.4	2116.4	1982.9	1974.0	1826.2
7.5°	2721.5	2707.3	2689.5	2677.0	2639.7	2566.7	2468.8	2324.6	2141.3	2123.5	1917.0
10°	2874.6	2865.7	2862.2	2853.3	2830.1	2771.4	2677.0	2524.0	2299.7	2280.1	2013.1
12.5°	2940.5	2936.9	2952.9	2977.9	2986.8	2963.6	2872.8	2728.7	2474.1	2452.8	2128.8
15°	2863.9	2867.5	2908.4	2993.9	3084.7	3134.5	3081.1	2940.5	2671.7	2641.4	2264.1
17.5°	2828.3	2833.7	2862.2	2944.0	3072.2	3227.1	3252.0	3141.6	2862.2	2819.4	2406.5
20°	2890.6	2897.8	2919.1	2983.2	3072.2	3237.7	3367.7	3333.9	3049.1	3004.6	2543.6
22.5°	3049.1	3058.0	3056.2	3097.1	3157.6	3271.6	3431.7	3515.4	3244.9	3195.0	2685.9
25°	3387.2	3380.1	3319.6	3300.0	3316.1	3389.0	3517.2	3689.8	3449.5	3399.7	2835.5
27.5°	3846.5	3837.6	3727.2	3627.5	3538.5	3570.6	3638.2	3830.5	3657.8	3600.8	2977.9
30°	4337.7	4327.1	4198.9	4036.9	3839.4	3793.1	3784.2	3953.3	3867.8	3807.3	3129.2
32.5°	4816.6	4807.7	4670.6	4481.9	4209.6	4070.8	3985.3	4090.3	4106.4	4047.6	3294.7
35°	5252.6	5252.6	5135.2	4910.9	4603.0	4392.9	4252.3	4259.4	4380.5	4312.8	3483.4
37.5°	5640.7	5638.9	5510.7	5290.0	4994.5	4754.3	4579.8	4464.1	4642.1	4583.4	3680.9
40°	5948.6	5936.1	5841.8	5649.6	5352.3	5113.8	4937.6	4704.4	4934.0	4880.6	3891.0
42.5°	6172.9	6165.8	6101.7	5934.4	5651.3	5427.1	5306.0	5007.0	5265.1	5211.7	4136.6
45°	6260.1	6274.3	6274.3	6115.9	5891.6	5686.9	5633.5	5339.9	5622.9	5569.5	4400.0
47.5°	6119.5	6156.9	6233.4	6244.1	6046.5	5907.7	5925.5	5674.5	5991.3	5962.8	4688.4
50°	5679.8	5749.2	5916.6	6219.2	6108.8	6076.8	6174.7	6016.2	6386.5	6377.6	5039.0
52.5°	4546.0	4715.1	5236.6	5779.5	6066.1	6155.1	6422.1	6400.7	6895.5	6909.8	5496.5
55°	3486.9	3551.0	4154.4	5078.2	5804.4	6130.2	6587.6	6776.3	7447.3	7465.1	5916.6
57.5°	2819.4	2862.2	3191.5	4154.4	5208.1	5994.9	6717.5	6995.2	7870.9	7917.2	6290.4
60°	2233.8	2296.1	2516.9	3179.0	4373.3	5669.1	6808.3	7239.1	8326.6	8396.0	6737.1
62.5°	1660.7	1691.0	1899.2	2354.9	3462.0	5083.5	6760.3	7504.3	8885.5	8969.2	7274.7
65°	1181.9	1208.6	1356.3	1674.9	2559.6	4291.5	6480.8	7701.9	9586.8	9672.3	7815.8
67.5°	884.6	895.3	979.0	1171.2	1724.8	3333.9	5914.8	7668.0	10099.4	10176.0	8032.9
70°	699.5	703.1	744.0	847.3	1121.4	2321.1	4923.3	7171.4	10136.8	10204.5	7758.8
72.5°	580.3	578.5	601.6	651.5	781.4	1468.5	3647.1	6249.4	9656.2	9702.5	6993.4
75°	478.8	482.4	498.4	526.9	596.3	968.3	2363.8	4985.6	8518.9	8469.0	5868.5
77.5°	402.3	400.5	407.6	432.5	482.4	696.0	1384.8	3602.6	6313.5	6288.6	3851.8
80°	324.0	327.5	338.2	359.6	405.8	530.4	818.8	2248.1	3387.2	3296.5	1840.5
82.5°	217.2	251.0	272.3	297.3	350.7	391.6	519.7	1142.7	1514.7	1491.6	834.8
85°	103.2	137.1	202.9	231.4	284.8	245.6	352.4	544.7	758.3	749.4	300.8
87.5°	21.4	21.4	108.6	129.9	176.2	105.0	195.8	236.7	366.7	343.5	122.8
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°	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7
2.5°	1701.6	1653.6	1557.5	1480.9	1402.6	1358.1	1302.9	1276.2	1270.9	1256.6	1267.3
5°	1731.9	1637.6	1456.0	1336.7	1256.6	1217.5	1197.9	1190.8	1189.0	1185.4	1185.4
7.5°	1772.8	1628.7	1391.9	1270.9	1219.3	1206.8	1212.1	1222.8	1224.6	1228.2	1226.4
10°	1822.7	1630.4	1356.3	1254.9	1229.9	1231.7	1249.5	1263.8	1270.9	1276.2	1274.4
12.5°	1892.1	1651.8	1351.0	1265.5	1254.9	1262.0	1279.8	1294.0	1301.1	1302.9	1302.9
15°	1982.9	1696.3	1363.4	1288.7	1279.8	1285.1	1295.8	1301.1	1302.9	1301.1	1301.1
17.5°	2082.5	1749.7	1381.2	1302.9	1288.7	1283.3	1279.8	1274.4	1263.8	1256.6	1256.6
20°	2178.7	1797.8	1390.1	1301.1	1276.2	1254.9	1233.5	1206.8	1189.0	1174.8	1174.8
22.5°	2274.8	1842.3	1390.1	1281.6	1242.4	1201.5	1157.0	1114.3	1087.6	1069.8	1069.8
25°	2376.2	1885.0	1379.5	1247.7	1189.0	1130.3	1069.8	1016.4	989.7	971.9	968.3
27.5°	2461.7	1909.9	1351.0	1199.7	1123.1	1048.4	979.0	923.8	904.2	888.2	888.2
30°	2552.5	1925.9	1297.6	1137.4	1048.4	963.0	891.8	847.3	825.9	802.8	801.0
32.5°	2653.9	1936.6	1237.1	1071.5	971.9	881.1	820.6	785.0	738.7	713.8	710.2
35°	2771.4	1950.8	1173.0	996.8	895.3	813.4	777.8	719.1	674.6	653.2	651.5
37.5°	2896.0	1961.5	1103.6	930.9	825.9	768.9	733.3	663.9	624.8	592.7	589.2
40°	3027.7	1961.5	1032.4	866.8	770.7	749.4	681.7	619.4	553.6	537.5	534.0
42.5°	3173.7	1957.9	961.2	804.5	719.1	704.9	651.5	585.6	551.8	537.5	534.0
45°	3328.5	1945.5	893.5	733.3	665.7	637.2	596.3	578.5	564.2	564.2	564.2
47.5°	3504.7	1934.8	817.0	669.3	626.5	594.5	564.2	553.6	551.8	557.1	562.5
50°	3730.8	1931.2	752.9	623.0	596.3	558.9	555.3	546.4	548.2	548.2	548.2
52.5°	4004.9	1899.2	692.4	589.2	566.0	521.5	532.2	541.1	544.7	542.9	541.1
55°	4206.0	1842.3	640.8	566.0	544.7	507.3	521.5	535.8	539.3	534.0	534.0
57.5°	4387.6	1762.2	599.8	548.2	530.4	498.4	514.4	528.6	525.1	523.3	521.5
60°	4595.8	1685.6	567.8	539.3	516.2	494.8	509.1	518.0	512.6	509.1	507.3
62.5°	4821.9	1610.9	544.7	539.3	505.5	493.0	503.7	507.3	496.6	493.0	493.0
65°	4926.9	1493.4	519.7	539.3	500.2	489.5	493.0	489.5	478.8	478.8	477.0
67.5°	4754.3	1299.4	487.7	532.2	507.3	484.1	477.0	471.7	459.2	459.2	455.7
70°	4277.2	1068.0	441.4	509.1	509.1	482.4	455.7	443.2	429.0	434.3	427.2
72.5°	3654.2	847.3	384.5	469.9	498.4	480.6	432.5	412.9	400.5	405.8	395.1
75°	2960.1	656.8	316.8	407.6	471.7	471.7	409.4	382.7	368.5	368.5	356.0
77.5°	1886.7	485.9	258.1	338.2	423.6	459.2	389.8	348.9	327.5	322.2	313.3
80°	934.5	341.8	211.8	268.8	361.3	430.7	375.6	309.7	279.5	268.8	252.8
82.5°	496.6	236.7	169.1	210.0	288.4	388.0	357.8	267.0	229.6	213.6	195.8
85°	222.5	146.0	135.3	160.2	218.9	318.6	322.2	218.9	176.2	210.0	154.9
87.5°	81.9	65.9	65.9	81.9	126.4	133.5	227.8	140.6	112.1	76.5	60.5
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)