

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: P399337

Luminaire Tested: **ARCH-L-PA3-130-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399337
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-PA3-130-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17789 lumens
Efficiency: N/A
Efficacy: 133.8 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

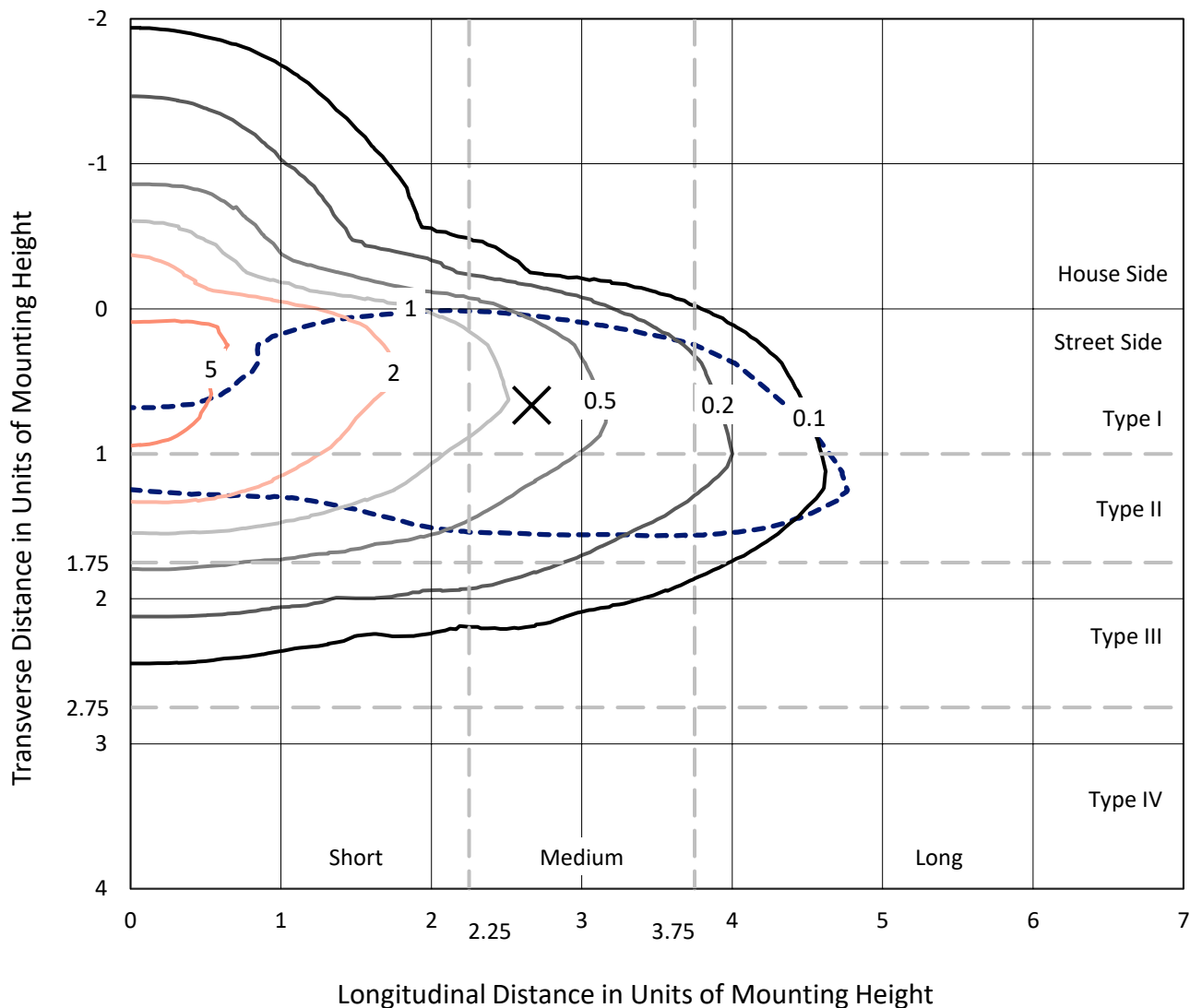
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

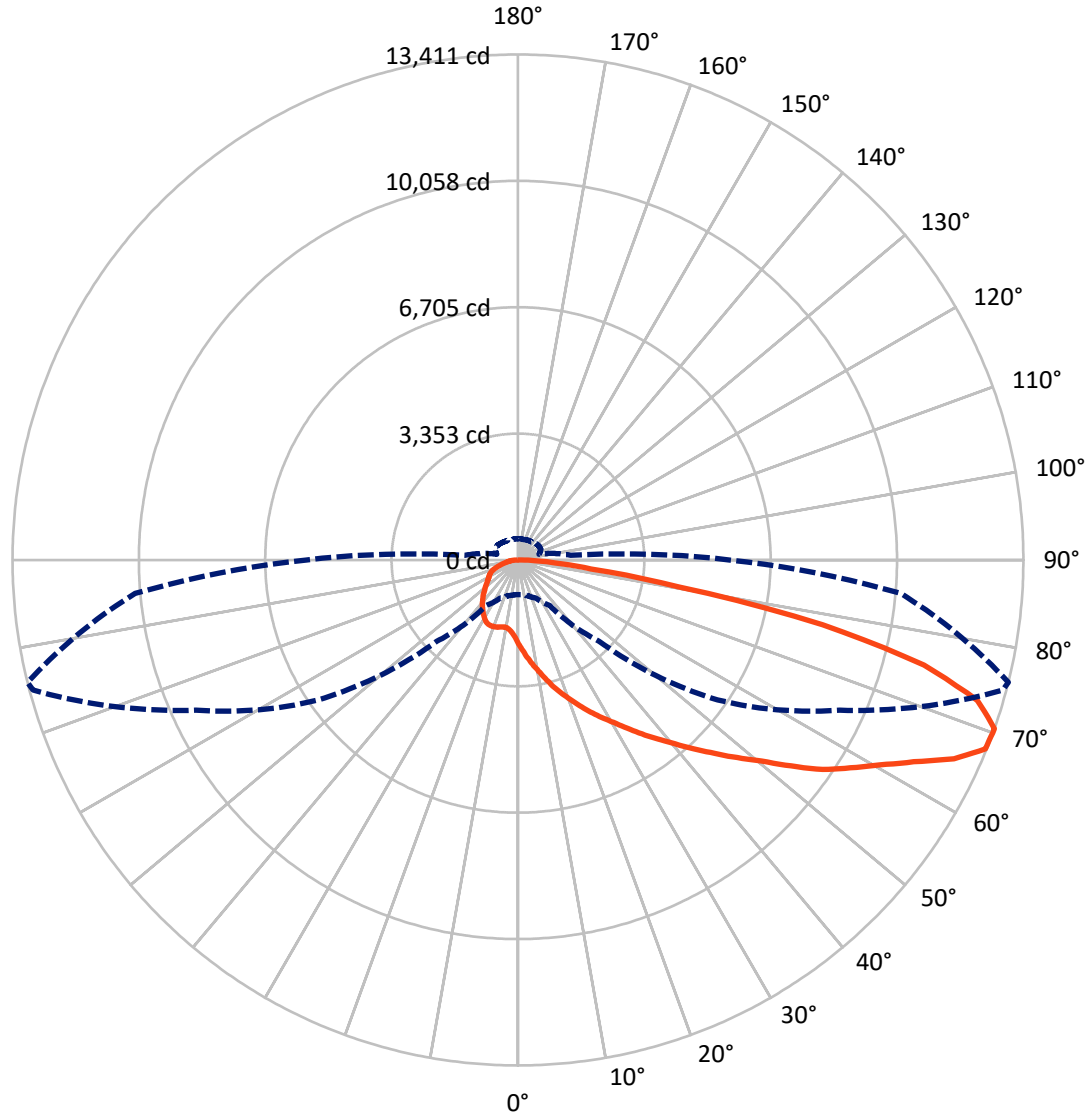
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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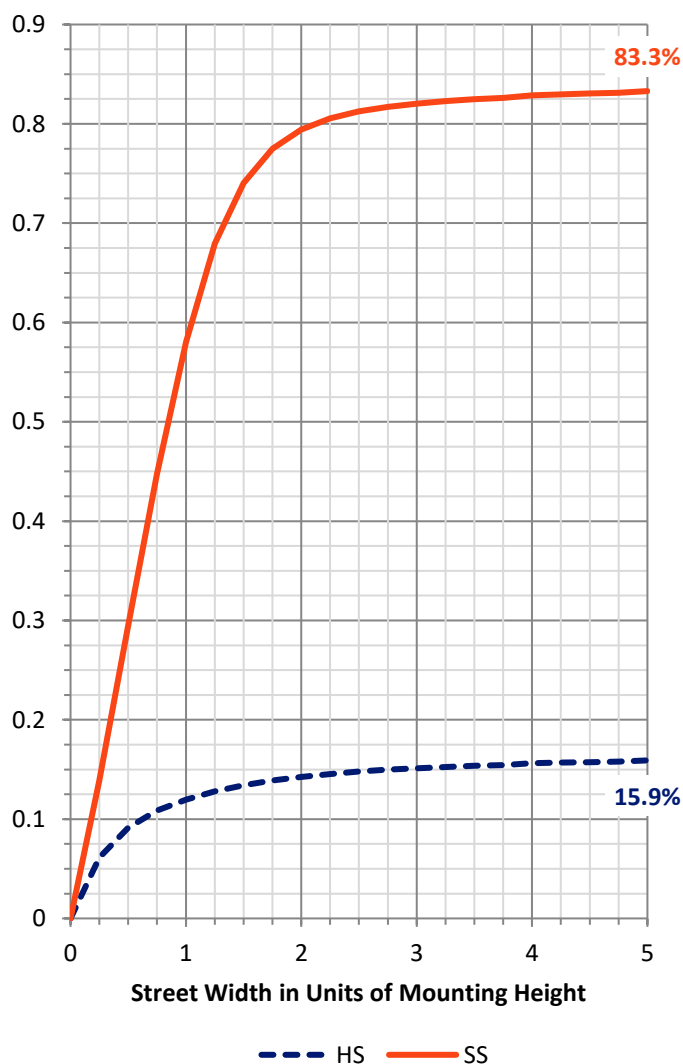
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2904.2	0.0	2904.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	14884.8	0.0	14884.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	17789.0	0.0	17789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.3
10°-20°	785.6	4.4
20°-30°	1405.5	7.9
30°-40°	2273.6	12.8
40°-50°	3289.1	18.5
50°-60°	3764.6	21.2
60°-70°	3463.0	19.5
70°-80°	2141.5	12.0
80°-90°	434.9	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°	17789.0	100.0
0°-180°	17789.0	100.0

Coefficient of Utilization



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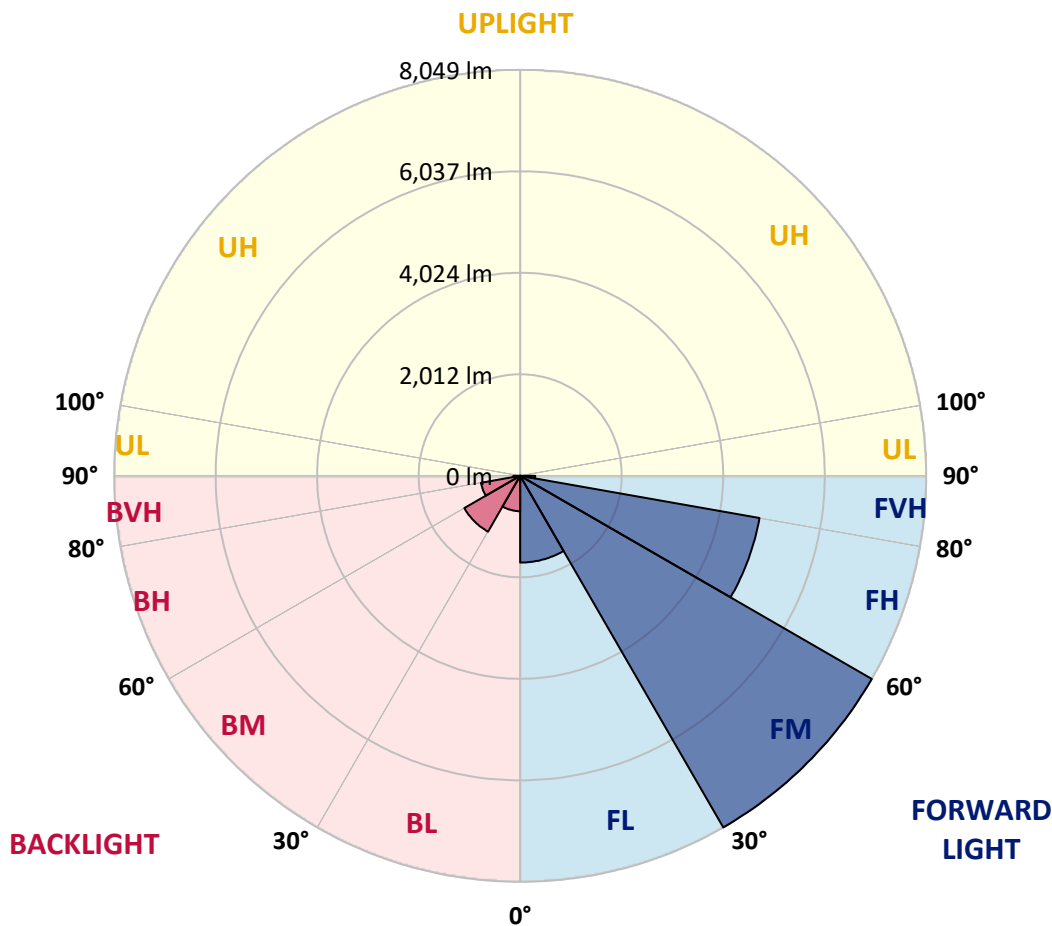
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.8	9.7			
FM (30°-60°)	8048.7	45.2			
FH (60°-80°)	4816.8	27.1			G2/5000
FVH (80°-90°)	298.5	1.7			G3/500
BL (0°-30°)	701.5	3.9	B2/1000		
BM (30°-60°)	1278.7	7.2	B2/2500		
BH (60°-80°)	787.7	4.4	B2/1000		G2/1000
BVH (80°-90°)	136.3	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°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
2.5°	2835.1	2814.1	2811.7	2779.0	2748.6	2666.7	2608.2	2505.3	2402.4	2400.0	2297.1
5°	3277.2	3256.2	3244.5	3204.7	3153.3	3045.7	2940.4	2781.3	2605.9	2594.2	2400.0
7.5°	3576.7	3557.9	3534.5	3518.2	3469.1	3373.1	3244.5	3055.0	2814.1	2790.7	2519.3
10°	3777.8	3766.1	3761.5	3749.8	3719.3	3642.2	3518.2	3317.0	3022.3	2996.5	2645.6
12.5°	3864.4	3859.7	3880.8	3913.5	3925.2	3894.8	3775.5	3586.0	3251.5	3223.4	2797.7
15°	3763.8	3768.5	3822.3	3934.6	4053.9	4119.4	4049.2	3864.4	3511.2	3471.4	2975.5
17.5°	3717.0	3724.0	3761.5	3869.1	4037.5	4241.0	4273.7	4128.7	3761.5	3705.3	3162.6
20°	3798.9	3808.2	3836.3	3920.5	4037.5	4255.0	4425.8	4381.3	4007.1	3948.6	3342.7
22.5°	4007.1	4018.8	4016.4	4070.2	4149.8	4299.5	4510.0	4619.9	4264.4	4198.9	3529.9
25°	4451.5	4442.2	4362.6	4336.9	4358.0	4453.9	4622.3	4849.2	4533.4	4467.9	3726.4
27.5°	5055.0	5043.3	4898.3	4767.3	4650.4	4692.5	4781.3	5034.0	4807.1	4732.2	3913.5
30°	5700.7	5686.6	5518.2	5305.3	5045.7	4984.9	4973.2	5195.4	5083.1	5003.6	4112.3
32.5°	6329.9	6318.2	6138.1	5890.1	5532.2	5349.8	5237.5	5375.5	5396.6	5319.4	4329.9
35°	6903.0	6903.0	6748.6	6453.9	6049.2	5773.2	5588.4	5597.7	5756.8	5667.9	4577.8
37.5°	7413.0	7410.6	7242.2	6952.1	6563.8	6248.0	6018.8	5866.7	6100.7	6023.5	4837.5
40°	7817.6	7801.3	7677.3	7424.7	7034.0	6720.6	6489.0	6182.5	6484.3	6414.1	5113.5
42.5°	8112.4	8103.0	8018.8	7798.9	7427.0	7132.3	6973.2	6580.2	6919.4	6849.2	5436.3
45°	8227.0	8245.7	8245.7	8037.5	7742.8	7473.8	7403.6	7017.6	7389.6	7319.4	5782.5
47.5°	8042.2	8091.3	8191.9	8206.0	7946.3	7763.8	7787.2	7457.4	7873.8	7836.4	6161.5
50°	7464.4	7555.7	7775.5	8173.2	8028.2	7986.1	8114.7	7906.5	8393.1	8381.4	6622.3
52.5°	5974.3	6196.6	6882.0	7595.4	7972.0	8089.0	8439.9	8411.8	9062.1	9080.8	7223.5
55°	4582.5	4666.7	5459.7	6673.8	7628.2	8056.2	8657.4	8905.4	9787.3	9810.7	7775.5
57.5°	3705.3	3761.5	4194.2	5459.7	6844.5	7878.5	8828.2	9193.1	10344.0	10404.8	8266.8
60°	2935.7	3017.6	3307.6	4177.8	5747.4	7450.4	8947.5	9513.6	10942.8	11034.1	8853.9
62.5°	2182.5	2222.3	2495.9	3094.8	4549.8	6680.8	8884.3	9862.1	11677.3	11787.3	9560.4
65°	1553.2	1588.3	1782.5	2201.2	3363.8	5639.8	8517.1	10121.8	12599.0	12711.3	10271.5
67.5°	1162.6	1176.6	1286.6	1539.2	2266.7	4381.3	7773.2	10077.3	13272.7	13373.3	10556.9
70°	919.3	924.0	977.8	1113.5	1473.7	3050.3	6470.3	9424.7	13321.8	13410.7	10196.6
72.5°	762.6	760.2	790.7	856.2	1026.9	1929.8	4793.0	8213.0	12690.2	12751.0	9190.8
75°	629.2	633.9	655.0	692.4	783.6	1272.5	3106.5	6552.1	11195.5	11130.0	7712.4
77.5°	528.7	526.3	535.7	568.4	633.9	914.6	1819.9	4734.6	8297.2	8264.4	5062.1
80°	425.7	430.4	444.5	472.5	533.3	697.1	1076.0	2954.4	4451.5	4332.2	2418.7
82.5°	285.4	329.8	357.9	390.6	460.8	514.6	683.0	1501.8	1990.7	1960.3	1097.1
85°	135.7	180.1	266.7	304.1	374.3	322.8	463.2	715.8	996.5	984.8	395.3
87.5°	28.1	28.1	142.7	170.8	231.6	138.0	257.3	311.1	481.9	451.5	161.4
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°	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6	2224.6
2.5°	2236.3	2173.1	2046.8	1946.2	1843.3	1784.8	1712.3	1677.2	1670.2	1651.5	1665.5
5°	2276.1	2152.1	1913.5	1756.7	1651.5	1600.0	1574.3	1564.9	1562.6	1557.9	1557.9
7.5°	2329.9	2140.4	1829.3	1670.2	1602.4	1586.0	1593.0	1607.0	1609.4	1614.1	1611.7
10°	2395.4	2142.7	1782.5	1649.1	1616.4	1618.7	1642.1	1660.8	1670.2	1677.2	1674.9
12.5°	2486.6	2170.8	1775.5	1663.2	1649.1	1658.5	1681.9	1700.6	1710.0	1712.3	1712.3
15°	2605.9	2229.3	1791.8	1693.6	1681.9	1688.9	1702.9	1710.0	1712.3	1710.0	1710.0
17.5°	2736.9	2299.4	1815.2	1712.3	1693.6	1686.6	1681.9	1674.9	1660.8	1651.5	1651.5
20°	2863.2	2362.6	1826.9	1710.0	1677.2	1649.1	1621.1	1586.0	1562.6	1543.9	1543.9
22.5°	2989.5	2421.1	1826.9	1684.2	1632.8	1579.0	1520.5	1464.3	1429.3	1405.9	1405.9
25°	3122.8	2477.2	1812.9	1639.8	1562.6	1485.4	1405.9	1335.7	1300.6	1277.2	1272.5
27.5°	3235.1	2510.0	1775.5	1576.6	1476.0	1377.8	1286.6	1214.1	1188.3	1167.3	1167.3
30°	3354.4	2531.0	1705.3	1494.8	1377.8	1265.5	1171.9	1113.5	1085.4	1055.0	1052.6
32.5°	3487.8	2545.1	1625.8	1408.2	1277.2	1157.9	1078.4	1031.6	970.8	938.0	933.3
35°	3642.2	2563.8	1541.5	1310.0	1176.6	1069.0	1022.2	945.0	886.6	858.5	856.2
37.5°	3805.9	2577.8	1450.3	1223.4	1085.4	1010.5	963.8	872.5	821.1	779.0	774.3
40°	3979.0	2577.8	1356.7	1139.2	1012.9	984.8	895.9	814.0	727.5	706.4	701.8
42.5°	4170.8	2573.1	1263.2	1057.3	945.0	926.3	856.2	769.6	725.2	706.4	701.8
45°	4374.3	2556.8	1174.3	963.8	874.9	837.4	783.6	760.2	741.5	741.5	741.5
47.5°	4605.9	2542.7	1073.7	879.5	823.4	781.3	741.5	727.5	725.2	732.2	739.2
50°	4903.0	2538.0	989.5	818.7	783.6	734.5	729.8	718.1	720.5	720.5	720.5
52.5°	5263.2	2495.9	910.0	774.3	743.9	685.4	699.4	711.1	715.8	713.5	711.1
55°	5527.6	2421.1	842.1	743.9	715.8	666.7	685.4	704.1	708.8	701.8	701.8
57.5°	5766.2	2315.8	788.3	720.5	697.1	655.0	676.0	694.7	690.1	687.7	685.4
60°	6039.8	2215.2	746.2	708.8	678.4	650.3	669.0	680.7	673.7	669.0	666.7
62.5°	6336.9	2117.0	715.8	708.8	664.3	648.0	662.0	666.7	652.6	648.0	648.0
65°	6474.9	1962.6	683.0	708.8	657.3	643.3	648.0	643.3	629.2	629.2	626.9
67.5°	6248.0	1707.6	640.9	699.4	666.7	636.3	626.9	619.9	603.5	603.5	598.8
70°	5621.1	1403.5	580.1	669.0	669.0	633.9	598.8	582.5	563.8	570.8	561.4
72.5°	4802.4	1113.5	505.3	617.6	655.0	631.6	568.4	542.7	526.3	533.3	519.3
75°	3890.1	863.2	416.4	535.7	619.9	619.9	538.0	502.9	484.2	484.2	467.8
77.5°	2479.6	638.6	339.2	444.5	556.7	603.5	512.3	458.5	430.4	423.4	411.7
80°	1228.1	449.1	278.4	353.2	474.9	566.1	493.6	407.0	367.3	353.2	332.2
82.5°	652.6	311.1	222.2	276.0	379.0	509.9	470.2	350.9	301.8	280.7	257.3
85°	292.4	191.8	177.8	210.5	287.7	418.7	423.4	287.7	231.6	276.0	203.5
87.5°	107.6	86.6	86.6	107.6	166.1	175.4	299.4	184.8	147.4	100.6	79.5
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)