

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: P400356

Luminaire Tested: **ARCH-L-PA3-270-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32044 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

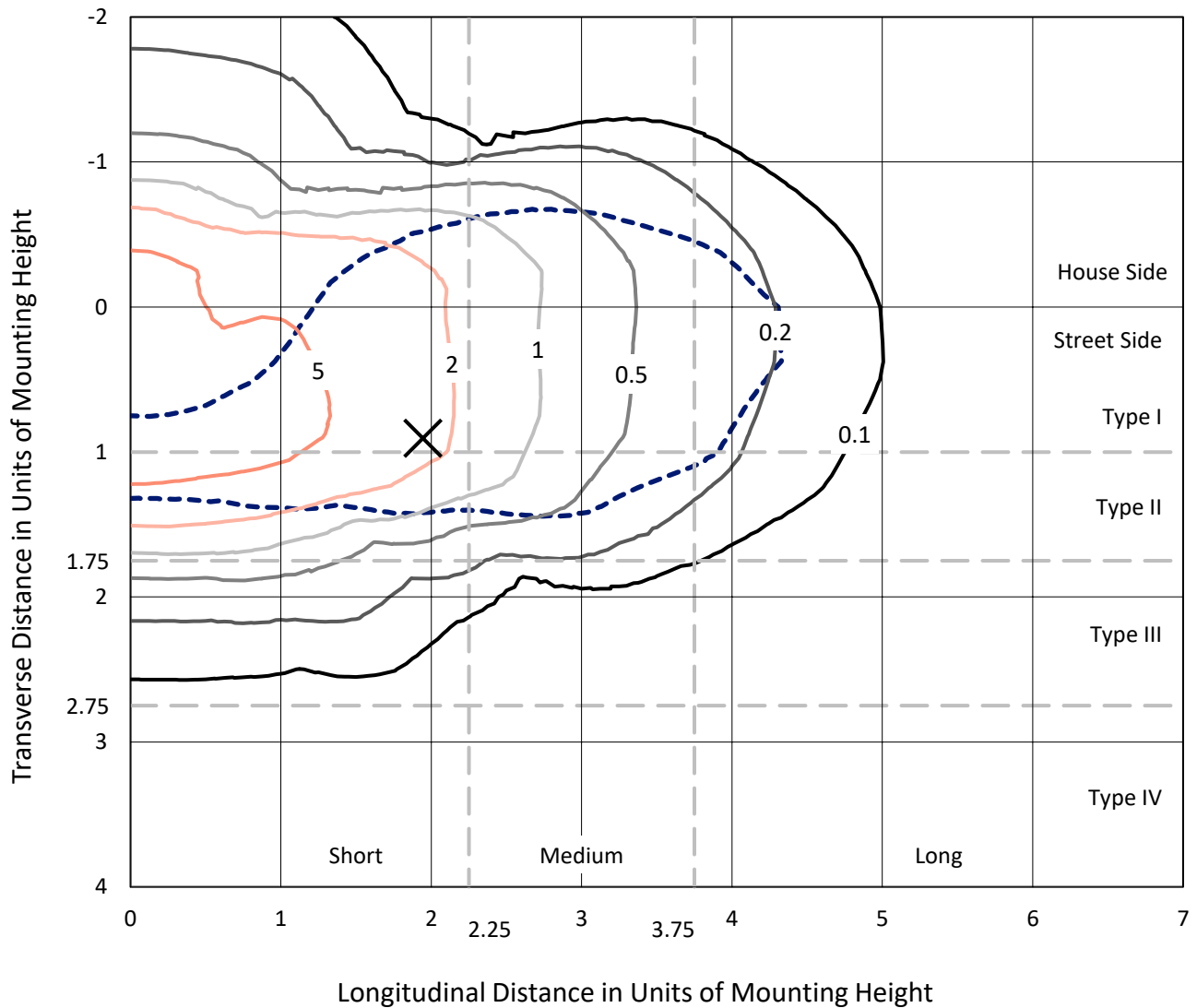
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

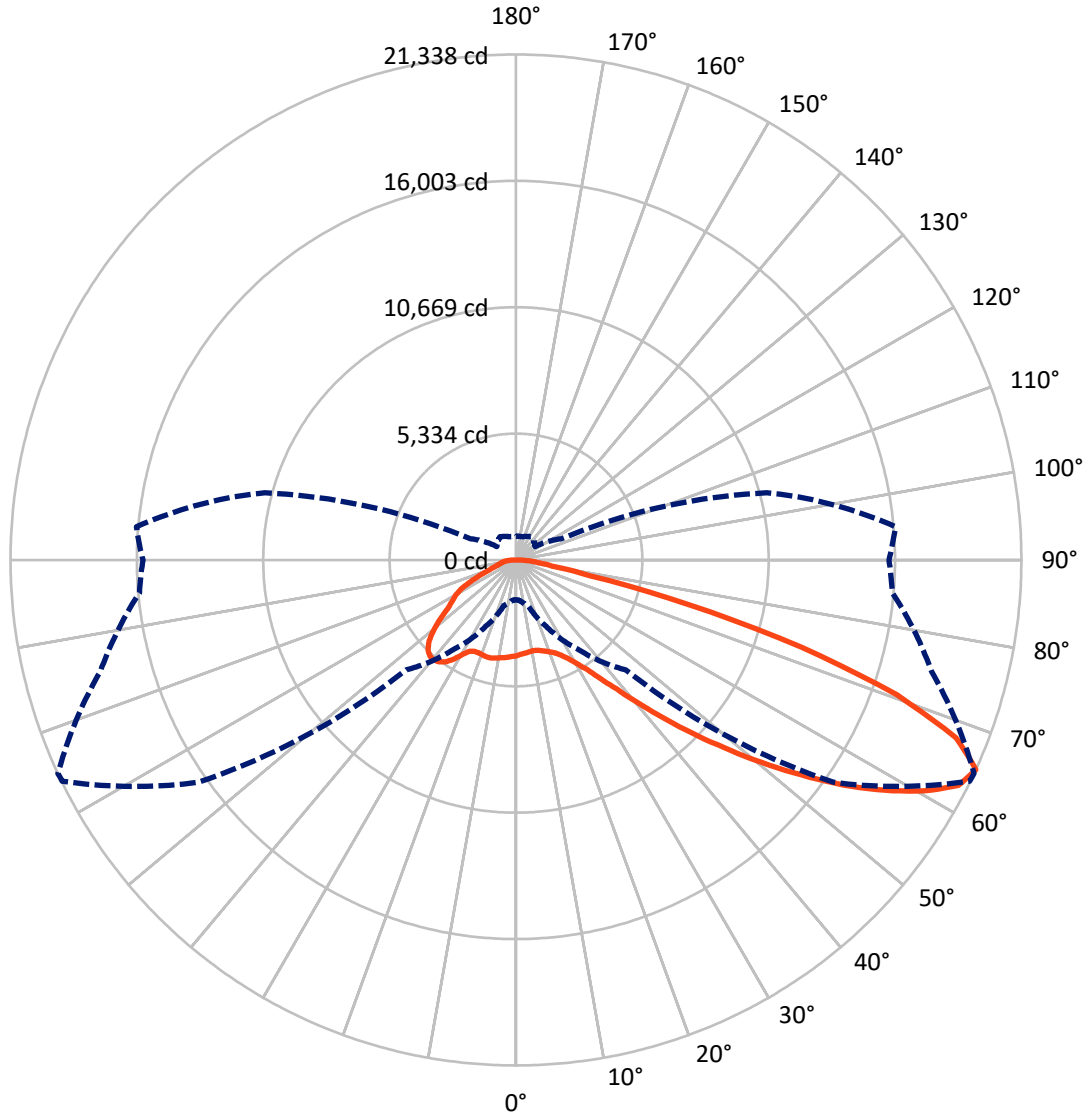
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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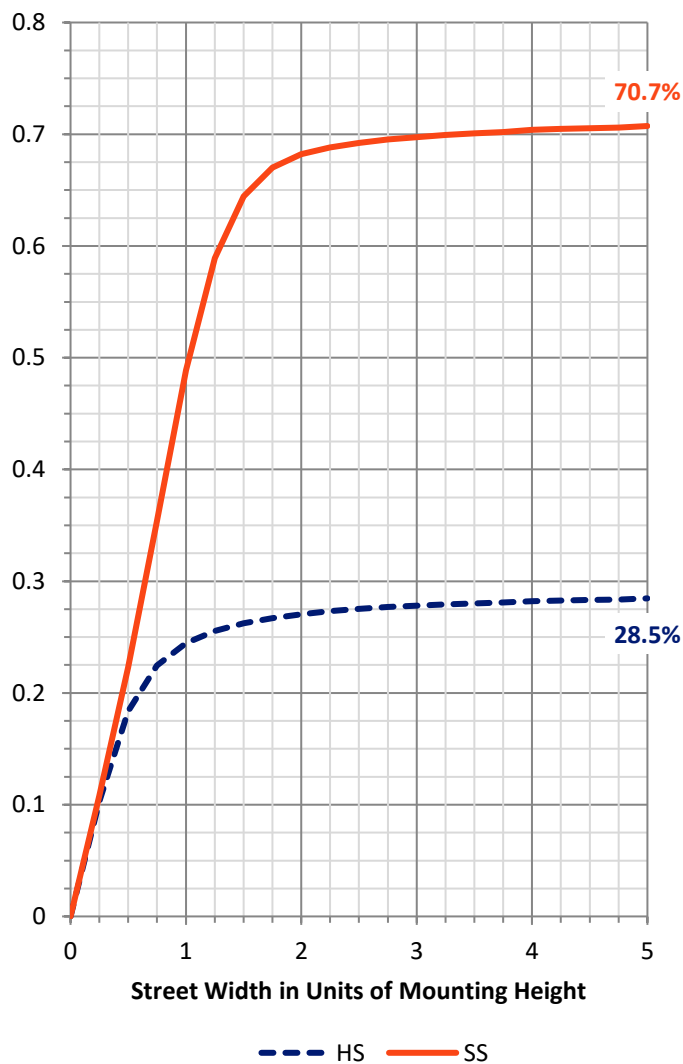
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9264.4	0.0	9264.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	22779.6	0.0	22779.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	32044.0	0.0	32044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.2
10°-20°	1151.7	3.6
20°-30°	2045.8	6.4
30°-40°	3461.0	10.8
40°-50°	6024.9	18.8
50°-60°	7786.1	24.3
60°-70°	6813.3	21.3
70°-80°	3705.9	11.6
80°-90°	669.6	2.1
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°	32044.0	100.0
0°-180°	32044.0	100.0

Coefficient of Utilization

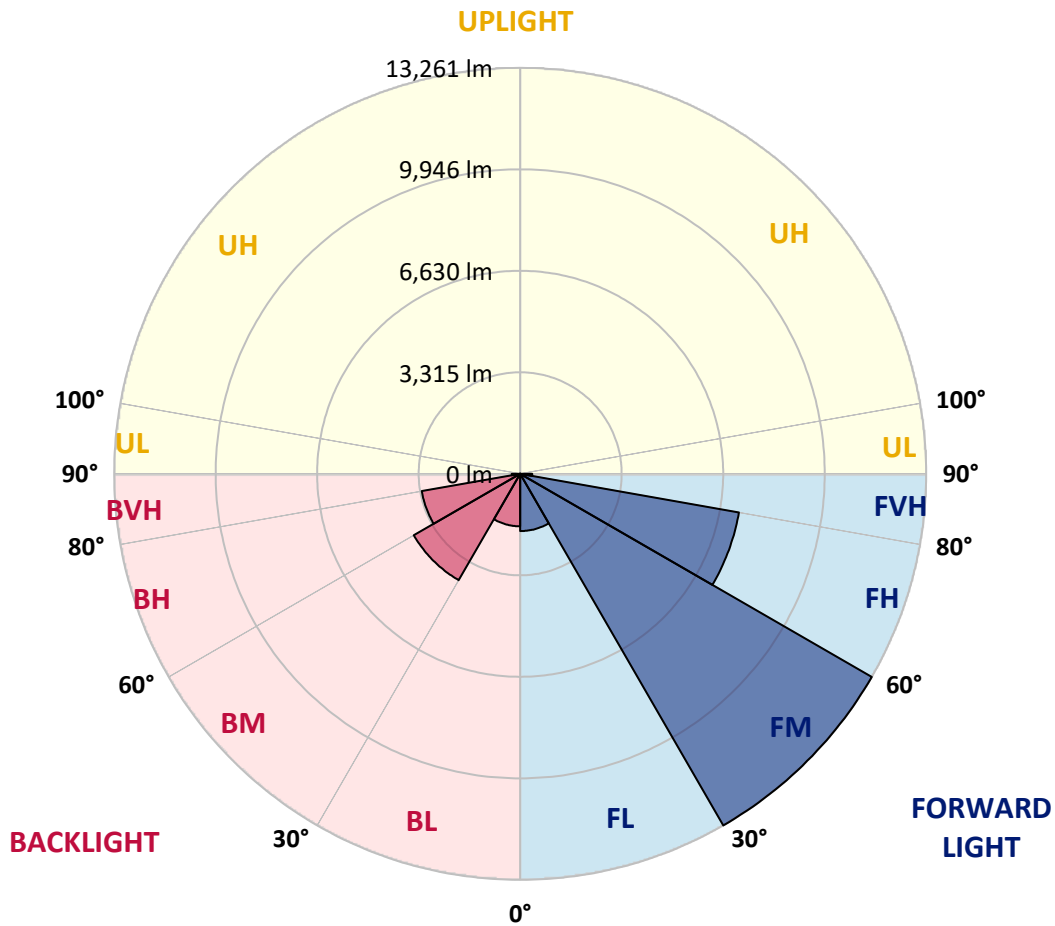


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.7	5.8			
FM (30°-60°)	13260.7	41.4			
FH (60°-80°)	7255.2	22.6			G3/7500
FVH (80°-90°)	394.0	1.2			G3/500
BL (0°-30°)	1713.6	5.3	B3/2500		
BM (30°-60°)	4011.3	12.5	B3/5000		
BH (60°-80°)	3264.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	275.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1
2.5°	3977.4	3973.1	3964.7	3973.1	3977.4	3985.8	3981.6	3990.0	3985.8	3998.5	4019.5
5°	3876.1	3867.7	3863.5	3884.6	3897.2	3918.3	3926.8	3956.3	3952.1	3973.1	4006.9
7.5°	3762.3	3762.3	3758.0	3783.3	3800.2	3838.2	3867.7	3918.3	3922.5	3960.5	3998.5
10°	3673.7	3677.9	3673.7	3694.8	3720.1	3766.5	3817.1	3888.8	3893.0	3947.8	3985.8
12.5°	3639.9	3639.9	3639.9	3669.5	3703.2	3766.5	3825.5	3901.4	3909.9	3968.9	4002.7
15°	3686.3	3690.6	3682.1	3711.6	3749.6	3825.5	3880.4	3960.5	3968.9	4023.8	4044.9
17.5°	3850.8	3867.7	3846.6	3863.5	3855.1	3914.1	3964.7	4044.9	4049.1	4095.5	4103.9
20°	4175.6	4192.5	4158.7	4137.6	4061.7	4057.5	4078.6	4141.9	4141.9	4171.4	4150.3
22.5°	4677.5	4694.4	4635.3	4555.2	4373.8	4285.3	4238.9	4268.4	4264.2	4276.8	4222.0
25°	5343.9	5339.7	5268.0	5120.4	4829.4	4614.3	4500.4	4454.0	4454.0	4428.7	4361.2
27.5°	6170.6	6107.3	5980.8	5803.7	5398.8	5099.3	4854.7	4736.6	4715.5	4639.6	4513.0
30°	7052.1	7005.7	6824.4	6567.1	6098.9	5715.1	5310.2	5074.0	5061.3	4896.8	4707.0
32.5°	8089.7	8013.8	7811.3	7503.4	6942.5	6402.6	5896.5	5537.9	5516.9	5255.4	4993.9
35°	9422.5	9359.3	8967.0	8659.1	7937.9	7229.3	6630.3	6153.7	6136.9	5816.3	5483.1
37.5°	11021.1	10856.6	10477.0	9899.1	9139.9	8300.6	7541.4	6942.5	6921.4	6567.1	6145.3
40°	12446.7	12299.0	11961.6	11430.2	10616.2	9684.0	8654.9	7929.4	7908.3	7478.1	6946.7
42.5°	13501.1	13399.9	13180.6	12872.7	12290.6	11725.4	10076.3	9123.1	9085.1	8528.3	7866.2
45°	14112.7	14032.6	13906.0	13981.9	13973.5	13868.1	11771.8	10544.4	10422.1	9700.9	8891.1
47.5°	13965.1	13893.4	13944.0	14534.5	15348.5	15960.1	13745.7	11999.6	11835.1	10894.5	9983.5
50°	12898.0	12927.5	13193.2	14323.6	16149.9	17508.0	15934.8	13657.2	13437.8	12096.6	11021.1
52.5°	10953.6	11025.3	11670.6	13252.3	16061.3	18511.8	17912.9	15369.6	15078.6	13269.1	11965.8
55°	8701.3	8882.6	9717.8	11379.6	14905.6	18583.5	19406.0	17090.4	16769.9	14370.0	12788.3
57.5°	6436.3	6706.3	7672.1	9199.0	12691.3	17449.0	20152.5	18735.4	18347.3	15462.4	13657.2
60°	4082.8	4247.3	5360.8	7161.8	9713.5	14673.7	20055.5	20135.7	19798.3	16550.6	14564.0
62.5°	2606.6	2686.7	3247.7	5107.7	6790.6	10865.0	18996.9	21194.3	20966.6	17541.7	15424.4
65°	1674.5	1708.2	1995.0	3142.2	4622.7	6558.6	16360.8	21308.2	21337.7	18161.8	15955.9
67.5°	1362.3	1379.2	1484.7	1940.2	3268.8	3623.1	11396.4	19688.6	20047.1	18001.5	15774.5
70°	1240.0	1261.1	1370.8	1547.9	2530.7	2501.1	5516.9	16474.6	17060.9	17077.8	14968.9
72.5°	1046.0	1075.5	1223.2	1463.6	1957.0	1973.9	2336.6	11733.9	12598.5	15264.1	13758.4
75°	873.1	890.0	1016.5	1290.6	1657.6	1577.4	1640.7	6221.2	7469.7	12240.0	12472.0
77.5°	708.6	725.5	818.2	1029.1	1472.0	1227.4	1290.6	2577.1	3184.4	8309.0	10194.4
80°	506.1	523.0	628.4	801.4	1113.5	1105.1	957.4	1421.4	1543.7	4491.9	6621.9
82.5°	362.7	375.4	476.6	573.6	771.9	1109.3	721.2	965.9	1012.3	1990.8	2669.9
85°	244.6	244.6	329.0	379.6	497.7	700.2	582.1	653.8	683.3	944.8	721.2
87.5°	105.4	105.4	177.1	194.0	261.5	324.8	434.4	329.0	337.4	510.4	295.2
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°	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1	4049.1
2.5°	4032.2	4036.4	4044.9	4070.2	4087.0	4112.3	4125.0	4141.9	4141.9	4133.4	4137.6
5°	4023.8	4036.4	4065.9	4112.3	4141.9	4188.3	4222.0	4247.3	4255.7	4247.3	4251.5
7.5°	4019.5	4040.6	4091.2	4158.7	4200.9	4260.0	4306.4	4335.9	4357.0	4348.5	4352.7
10°	4006.9	4040.6	4103.9	4188.3	4251.5	4310.6	4352.7	4365.4	4378.1	4369.6	4365.4
12.5°	4023.8	4061.7	4129.2	4230.4	4302.1	4348.5	4361.2	4340.1	4310.6	4293.7	4289.5
15°	4057.5	4095.5	4162.9	4268.4	4331.7	4348.5	4319.0	4251.5	4184.0	4146.1	4141.9
17.5°	4103.9	4129.2	4184.0	4276.8	4327.4	4306.4	4247.3	4167.2	4116.6	4087.0	4091.2
20°	4133.4	4133.4	4175.6	4247.3	4289.5	4272.6	4200.9	4112.3	4032.2	3994.2	3981.6
22.5°	4175.6	4154.5	4158.7	4222.0	4281.0	4255.7	4103.9	3947.8	3834.0	3791.8	3787.6
25°	4289.5	4230.4	4192.5	4230.4	4369.6	4162.9	3859.3	3677.9	3572.5	3534.5	3538.7
27.5°	4428.7	4348.5	4268.4	4331.7	4441.3	3952.1	3547.2	3340.5	3277.2	3247.7	3260.3
30°	4567.9	4462.4	4357.0	4584.7	4390.7	3623.1	3146.5	2944.0	2889.2	2868.1	2885.0
32.5°	4825.1	4652.2	4525.7	4922.1	4234.7	3247.7	2712.0	2526.4	2475.8	2450.5	2442.1
35°	5255.4	5036.0	4909.5	5217.4	4015.3	2830.1	2315.6	2184.8	2130.0	2075.1	2066.7
37.5°	5875.4	5609.6	5495.8	5386.1	3707.4	2416.8	2011.9	1923.3	1843.2	1758.8	1754.6
40°	6617.7	6271.8	6187.5	5462.0	3281.4	2028.8	1801.0	1716.6	1615.4	1535.3	1539.5
42.5°	7473.9	7031.0	6849.7	5440.9	2754.2	1822.1	1649.2	1556.4	1467.8	1396.1	1391.9
45°	8389.2	7887.2	7469.7	5293.3	2231.2	1678.7	1556.4	1446.7	1358.1	1278.0	1269.6
47.5°	9401.4	8840.5	8043.3	5006.5	1843.2	1577.4	1501.5	1345.5	1265.3	1214.7	1214.7
50°	10422.1	9751.5	8570.5	4572.1	1615.4	1501.5	1421.4	1290.6	1227.4	1185.2	1185.2
52.5°	11295.2	10700.5	9005.0	4053.3	1472.0	1438.3	1366.6	1265.3	1197.8	1159.9	1155.7
55°	12143.0	11582.0	9393.0	3538.7	1353.9	1353.9	1353.9	1244.2	1168.3	1134.6	1130.4
57.5°	12986.5	12509.9	9797.9	3201.3	1248.5	1282.2	1328.6	1218.9	1143.0	1113.5	1109.3
60°	13939.8	13623.4	10266.1	2965.1	1155.7	1206.3	1294.9	1189.4	1100.8	1075.5	1071.3
62.5°	14952.0	14952.0	10692.1	2631.9	1071.3	1143.0	1244.2	1151.5	1062.9	1041.8	1037.6
65°	15745.0	16086.6	10966.2	2134.2	987.0	1079.8	1185.2	1100.8	1012.3	1008.0	999.6
67.5°	15837.8	16373.4	10793.3	1611.2	911.0	1012.3	1126.1	1046.0	961.7	961.7	949.0
70°	15171.4	15715.4	10253.4	1206.3	856.2	944.8	1050.2	978.5	898.4	906.8	885.7
72.5°	14057.9	14192.8	8912.2	953.2	792.9	873.1	957.4	902.6	830.9	830.9	801.4
75°	12590.1	11839.3	6474.3	797.2	717.0	788.7	864.6	818.2	755.0	733.9	717.0
77.5°	10021.4	8579.0	3762.3	687.5	653.8	708.6	759.2	725.5	670.6	624.2	624.2
80°	6107.3	5027.6	1661.8	594.7	577.8	620.0	653.8	615.8	569.4	523.0	510.4
82.5°	2324.0	1940.2	805.6	510.4	506.1	531.4	556.7	518.8	485.0	464.0	400.7
85°	636.9	586.3	552.5	426.0	417.6	413.3	442.9	426.0	379.6	312.1	278.4
87.5°	240.4	274.2	299.5	261.5	278.4	257.3	295.2	269.9	240.4	156.1	139.2
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)