

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: P400293

Luminaire Tested: **ARCH-L-PA3-260-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400293
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-PA3-260-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34247 lumens
Efficiency: N/A
Efficacy: 131.2 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

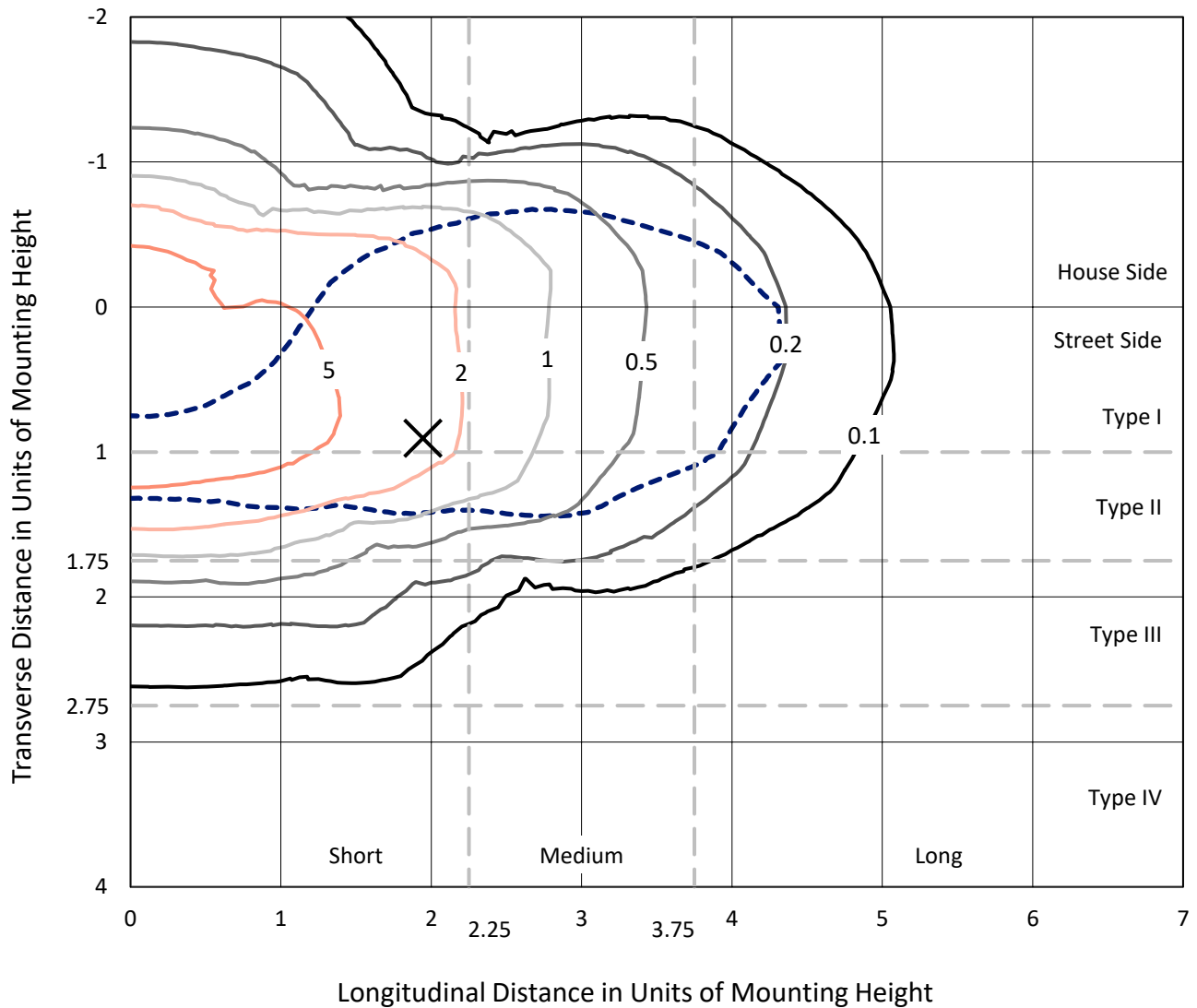
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

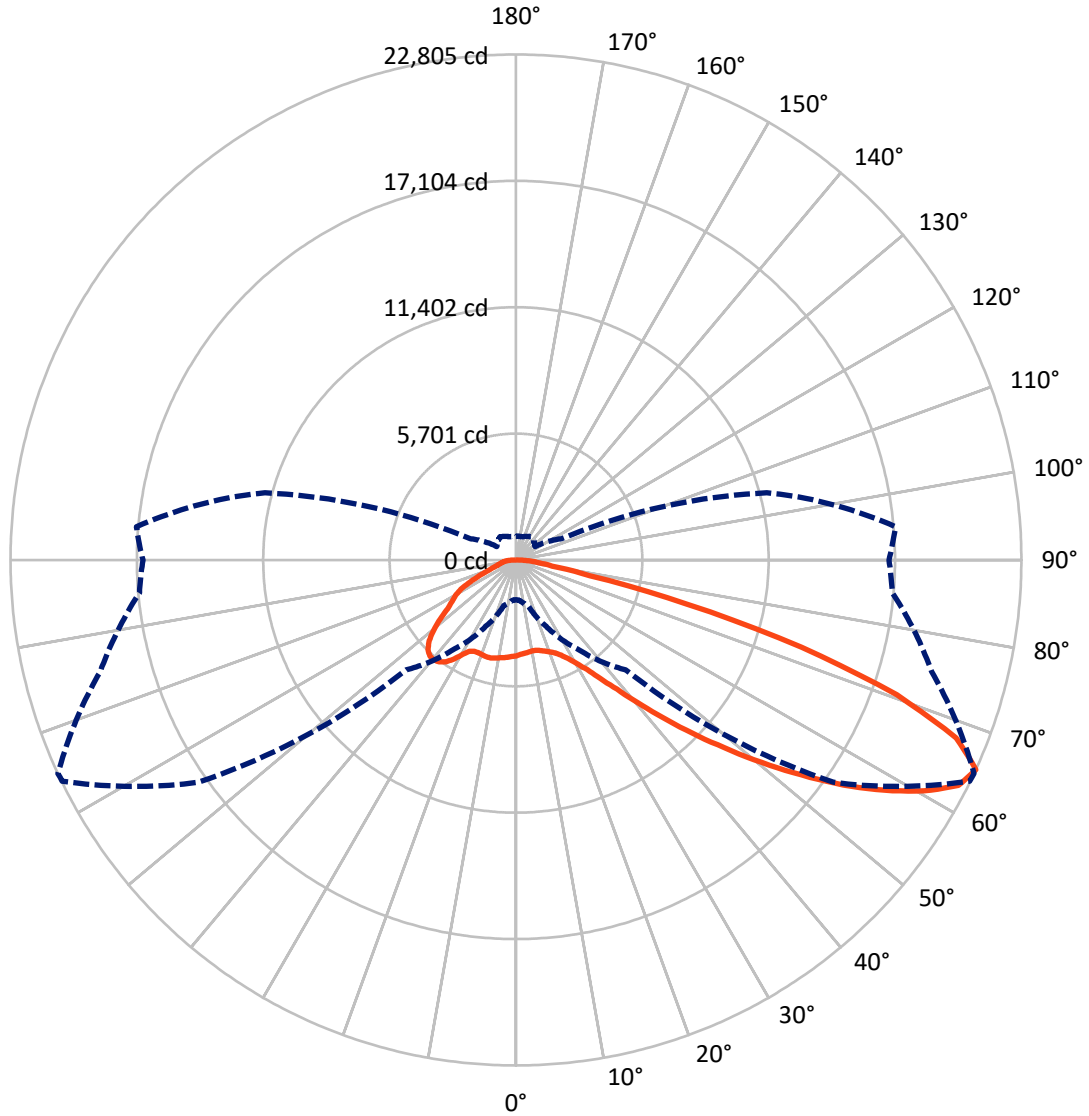
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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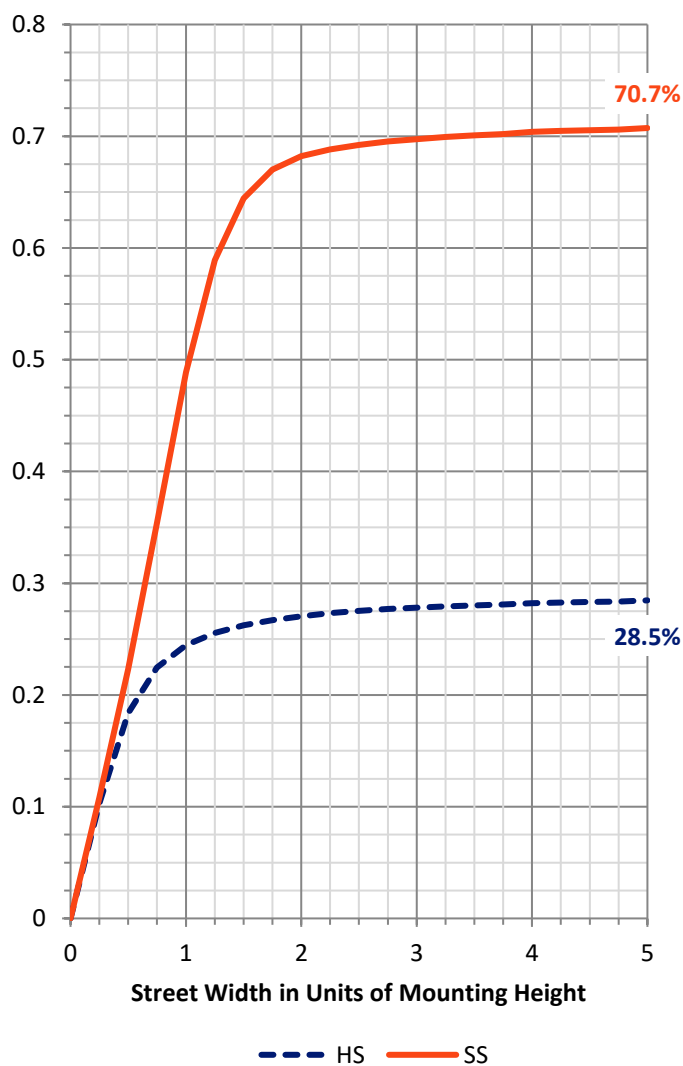
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9901.3	0.0	9901.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	24345.7	0.0	24345.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	34247.0	0.0	34247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.3	1.2
10°-20°	1230.9	3.6
20°-30°	2186.4	6.4
30°-40°	3698.9	10.8
40°-50°	6439.1	18.8
50°-60°	8321.4	24.3
60°-70°	7281.7	21.3
70°-80°	3960.7	11.6
80°-90°	715.6	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°	34247.0	100.0
0°-180°	34247.0	100.0

Coefficient of Utilization



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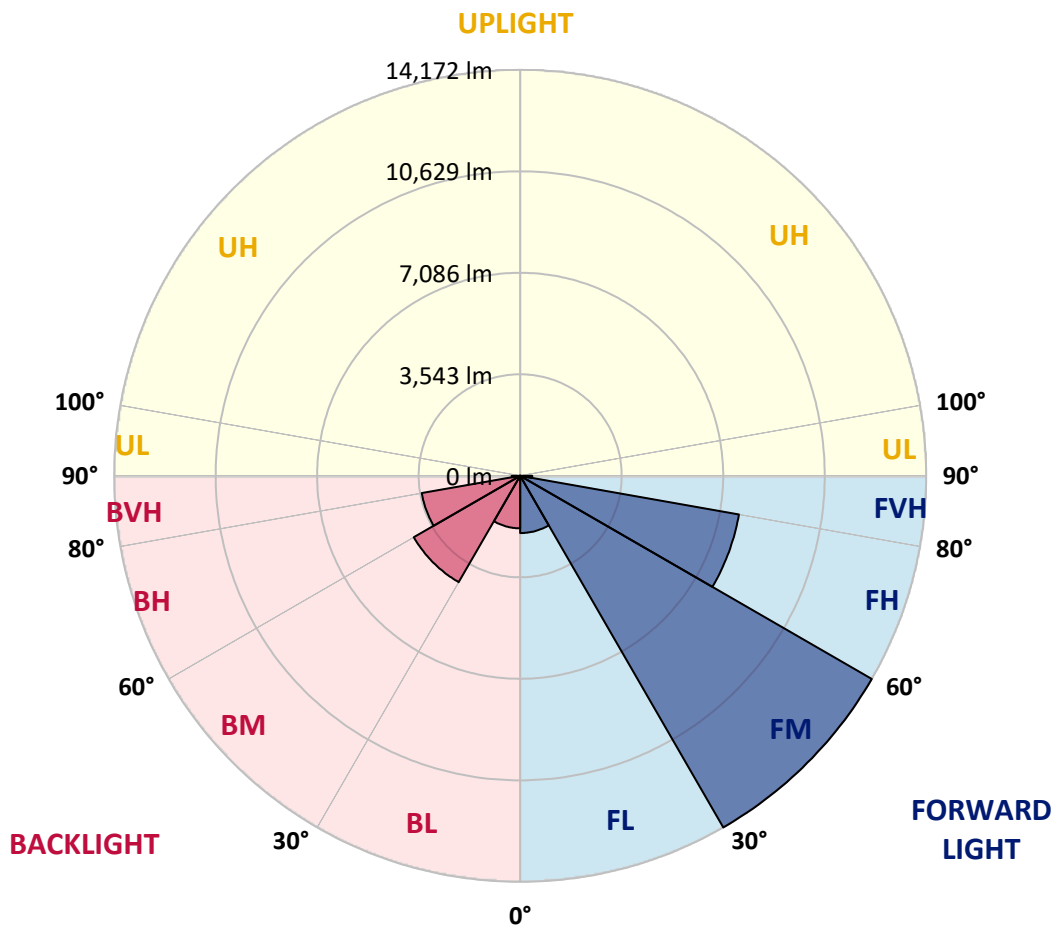
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1998.2	5.8			
FM (30°-60°)	14172.3	41.4			
FH (60°-80°)	7754.0	22.6			G4/12000
FVH (80°-90°)	421.1	1.2			G3/500
BL (0°-30°)	1831.4	5.3	B3/2500		
BM (30°-60°)	4287.0	12.5	B3/5000		
BH (60°-80°)	3488.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	294.5	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°	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4
2.5°	4250.8	4246.3	4237.3	4246.3	4250.8	4259.8	4255.3	4264.3	4259.8	4273.3	4295.9
5°	4142.6	4133.6	4129.1	4151.6	4165.2	4187.7	4196.7	4228.3	4223.8	4246.3	4282.4
7.5°	4020.9	4020.9	4016.4	4043.5	4061.5	4102.1	4133.6	4187.7	4192.2	4232.8	4273.3
10°	3926.2	3930.8	3926.2	3948.8	3975.8	4025.4	4079.5	4156.1	4160.7	4219.3	4259.8
12.5°	3890.2	3890.2	3890.2	3921.7	3957.8	4025.4	4088.5	4169.7	4178.7	4241.8	4277.9
15°	3939.8	3944.3	3935.3	3966.8	4007.4	4088.5	4147.1	4232.8	4241.8	4300.4	4322.9
17.5°	4115.6	4133.6	4111.1	4129.1	4120.1	4183.2	4237.3	4322.9	4327.4	4377.0	4386.0
20°	4462.7	4480.7	4444.6	4422.1	4341.0	4336.5	4359.0	4426.6	4426.6	4458.2	4435.6
22.5°	4999.1	5017.1	4954.0	4868.4	4674.5	4579.9	4530.3	4561.8	4557.3	4570.9	4512.3
25°	5711.3	5706.8	5630.2	5472.4	5161.4	4931.5	4809.8	4760.2	4760.2	4733.1	4661.0
27.5°	6594.8	6527.2	6392.0	6202.7	5769.9	5449.9	5188.4	5062.2	5039.7	4958.5	4823.3
30°	7537.0	7487.4	7293.5	7018.6	6518.2	6108.0	5675.3	5422.8	5409.3	5233.5	5030.6
32.5°	8645.9	8564.7	8348.3	8019.3	7419.8	6842.8	6301.8	5918.7	5896.1	5616.7	5337.2
35°	10070.3	10002.7	9583.5	9254.4	8483.6	7726.3	7086.2	6576.8	6558.8	6216.2	5860.1
37.5°	11778.7	11602.9	11197.2	10579.7	9768.3	8871.2	8059.9	7419.8	7397.2	7018.6	6567.8
40°	13302.4	13144.6	12784.0	12216.0	11346.0	10349.8	9249.9	8474.6	8452.0	7992.2	7424.3
42.5°	14429.3	14321.1	14086.7	13757.6	13135.6	12531.5	10769.0	9750.3	9709.7	9114.7	8407.0
45°	15082.9	14997.3	14862.0	14943.2	14934.2	14821.5	12581.1	11269.4	11138.6	10367.8	9502.3
47.5°	14925.2	14848.5	14902.6	15533.7	16403.7	17057.3	14690.8	12824.5	12648.7	11643.5	10669.8
50°	13784.7	13816.2	14100.2	15308.3	17260.2	18711.7	17030.3	14596.1	14361.7	12928.2	11778.7
52.5°	11706.6	11783.3	12472.9	14163.3	17165.5	19784.5	19144.4	16426.2	16115.2	14181.4	12788.5
55°	9299.5	9493.3	10385.9	12161.9	15930.4	19861.1	20740.1	18265.4	17922.8	15357.9	13667.5
57.5°	6878.8	7167.3	8199.6	9831.4	13563.8	18648.6	21538.0	20023.4	19608.7	16525.4	14596.1
60°	4363.5	4539.3	5729.3	7654.2	10381.3	15682.5	21434.3	21520.0	21159.4	17688.4	15565.3
62.5°	2785.8	2871.4	3471.0	5458.9	7257.5	11612.0	20302.9	22651.4	22408.0	18747.7	16484.8
65°	1789.6	1825.6	2132.2	3358.3	4940.5	7009.5	17485.6	22773.1	22804.7	19410.4	17052.8
67.5°	1456.0	1474.0	1586.7	2073.6	3493.5	3872.2	12179.9	21042.2	21425.3	19239.1	16859.0
70°	1325.3	1347.8	1465.0	1654.3	2704.6	2673.1	5896.1	17607.3	18233.8	18251.9	15998.0
72.5°	1117.9	1149.5	1307.2	1564.2	2091.6	2109.6	2497.3	12540.6	13464.6	16313.5	14704.3
75°	933.1	951.1	1086.4	1379.4	1771.5	1685.9	1753.5	6648.9	7983.2	13081.5	13329.4
77.5°	757.3	775.3	874.5	1099.9	1573.2	1311.8	1379.4	2754.2	3403.3	8880.3	10895.2
80°	540.9	559.0	671.7	856.5	1190.0	1181.0	1023.3	1519.1	1649.8	4800.8	7077.2
82.5°	387.7	401.2	509.4	613.1	824.9	1185.5	770.8	1032.3	1081.9	2127.7	2853.4
85°	261.4	261.4	351.6	405.7	531.9	748.3	622.1	698.7	730.3	1009.7	770.8
87.5°	112.7	112.7	189.3	207.4	279.5	347.1	464.3	351.6	360.6	545.4	315.5
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°	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4	4327.4
2.5°	4309.4	4313.9	4322.9	4350.0	4368.0	4395.1	4408.6	4426.6	4426.6	4417.6	4422.1
5°	4300.4	4313.9	4345.5	4395.1	4426.6	4476.2	4512.3	4539.3	4548.3	4539.3	4543.8
7.5°	4295.9	4318.4	4372.5	4444.6	4489.7	4552.8	4602.4	4634.0	4656.5	4647.5	4652.0
10°	4282.4	4318.4	4386.0	4476.2	4543.8	4606.9	4652.0	4665.5	4679.0	4670.0	4665.5
12.5°	4300.4	4341.0	4413.1	4521.3	4597.9	4647.5	4661.0	4638.5	4606.9	4588.9	4584.4
15°	4336.5	4377.0	4449.1	4561.8	4629.5	4647.5	4615.9	4543.8	4471.7	4431.1	4426.6
17.5°	4386.0	4413.1	4471.7	4570.9	4624.9	4602.4	4539.3	4453.7	4399.6	4368.0	4372.5
20°	4417.6	4417.6	4462.7	4539.3	4584.4	4566.3	4489.7	4395.1	4309.4	4268.8	4255.3
22.5°	4462.7	4440.1	4444.6	4512.3	4575.4	4548.3	4386.0	4219.3	4097.5	4052.5	4048.0
25°	4584.4	4521.3	4480.7	4521.3	4670.0	4449.1	4124.6	3930.8	3818.1	3777.5	3782.0
27.5°	4733.1	4647.5	4561.8	4629.5	4746.7	4223.8	3791.0	3570.1	3502.5	3471.0	3484.5
30°	4881.9	4769.2	4656.5	4899.9	4692.6	3872.2	3362.8	3146.4	3087.8	3065.3	3083.3
32.5°	5156.9	4972.0	4836.8	5260.5	4525.8	3471.0	2898.5	2700.1	2646.0	2619.0	2610.0
35°	5616.7	5382.3	5247.0	5576.1	4291.4	3024.7	2474.8	2335.0	2276.4	2217.8	2208.8
37.5°	6279.3	5995.3	5873.6	5756.4	3962.3	2582.9	2150.2	2055.5	1969.9	1879.7	1875.2
40°	7072.7	6703.0	6612.9	5837.5	3507.0	2168.2	1924.8	1834.7	1726.5	1640.8	1645.3
42.5°	7987.7	7514.4	7320.6	5815.0	2943.6	1947.3	1762.5	1663.4	1568.7	1492.1	1487.6
45°	8965.9	8429.5	7983.2	5657.2	2384.6	1794.1	1663.4	1546.2	1451.5	1365.8	1356.8
47.5°	10047.8	9448.2	8596.3	5350.7	1969.9	1685.9	1604.8	1438.0	1352.3	1298.2	1298.2
50°	11138.6	10421.9	9159.7	4886.4	1726.5	1604.8	1519.1	1379.4	1311.8	1266.7	1266.7
52.5°	12071.7	11436.2	9624.0	4331.9	1573.2	1537.1	1460.5	1352.3	1280.2	1239.6	1235.1
55°	12977.8	12378.3	10038.8	3782.0	1447.0	1447.0	1447.0	1329.8	1248.6	1212.6	1208.1
57.5°	13879.4	13370.0	10471.5	3421.4	1334.3	1370.4	1419.9	1302.7	1221.6	1190.0	1185.5
60°	14898.1	14560.0	10971.9	3168.9	1235.1	1289.2	1383.9	1271.2	1176.5	1149.5	1145.0
62.5°	15980.0	15980.0	11427.1	2812.8	1145.0	1221.6	1329.8	1230.6	1136.0	1113.4	1108.9
65°	16827.4	17192.6	11720.1	2280.9	1054.8	1154.0	1266.7	1176.5	1081.9	1077.4	1068.3
67.5°	16926.6	17499.1	11535.3	1722.0	973.7	1081.9	1203.6	1117.9	1027.8	1027.8	1014.2
70°	16214.4	16795.9	10958.3	1289.2	915.1	1009.7	1122.4	1045.8	960.2	969.2	946.6
72.5°	15024.3	15168.6	9524.9	1018.8	847.5	933.1	1023.3	964.7	888.0	888.0	856.5
75°	13455.6	12653.2	6919.4	852.0	766.3	842.9	924.1	874.5	806.9	784.3	766.3
77.5°	10710.4	9168.8	4020.9	734.8	698.7	757.3	811.4	775.3	716.7	667.1	667.1
80°	6527.2	5373.2	1776.1	635.6	617.6	662.6	698.7	658.1	608.5	559.0	545.4
82.5°	2483.8	2073.6	861.0	545.4	540.9	568.0	595.0	554.5	518.4	495.9	428.2
85°	680.7	626.6	590.5	455.3	446.3	441.8	473.3	455.3	405.7	333.6	297.5
87.5°	256.9	293.0	320.1	279.5	297.5	275.0	315.5	288.5	256.9	166.8	148.8
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)