

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: P400446

Luminaire Tested: **ARCH-L-PA3-280-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400446
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-PA3-280-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35708 lumens
Efficiency: N/A
Efficacy: 128.0 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

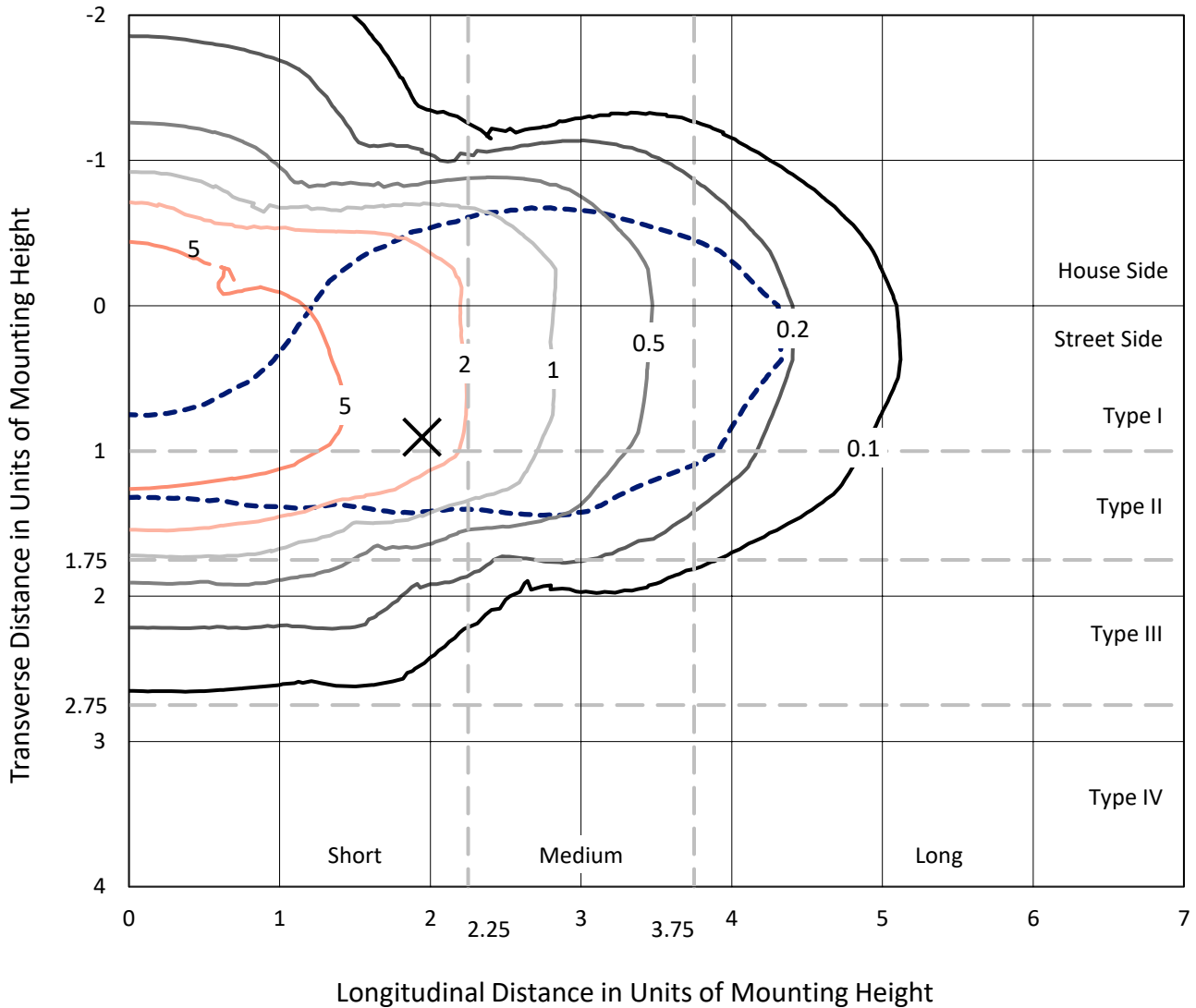
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

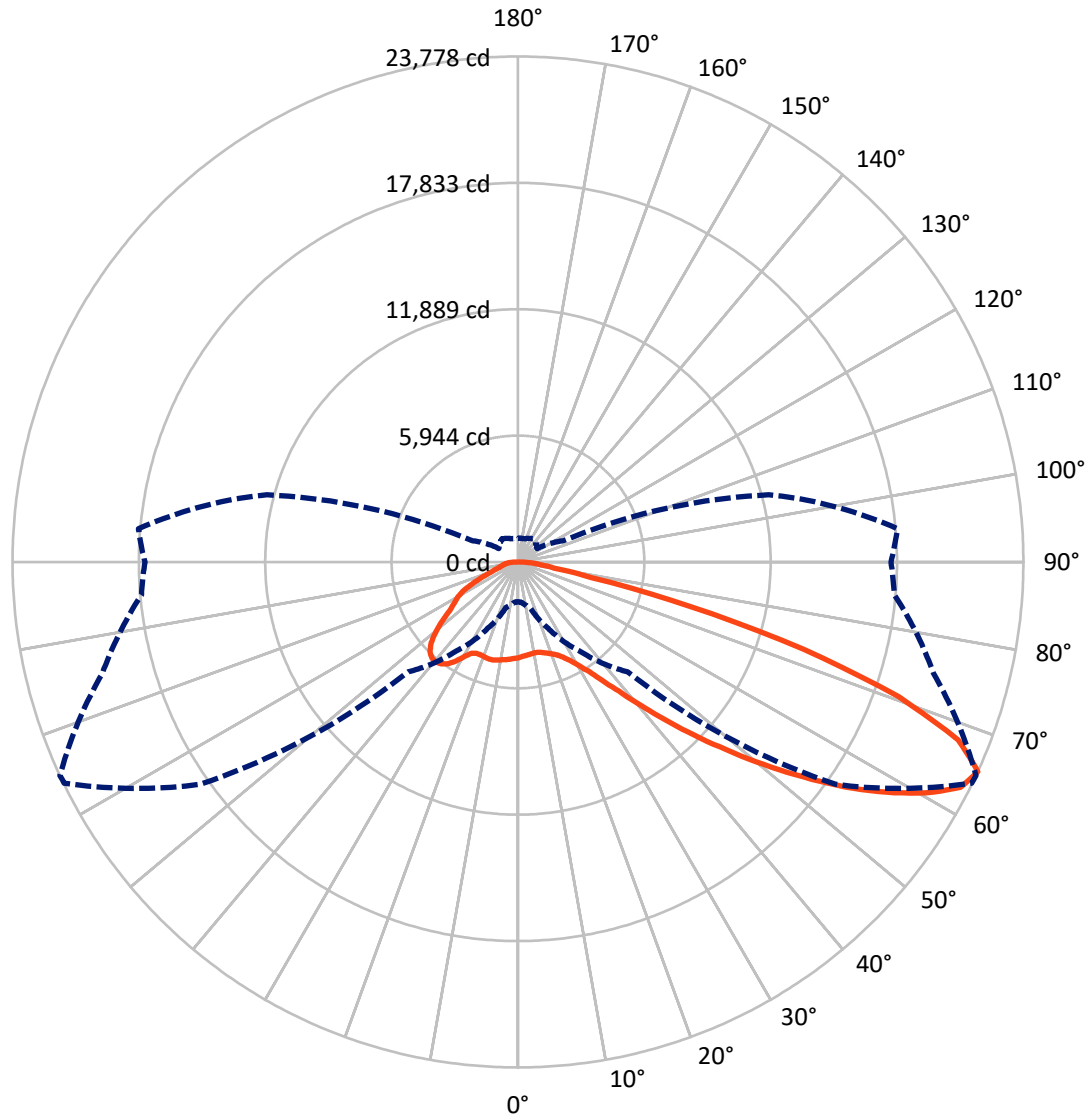
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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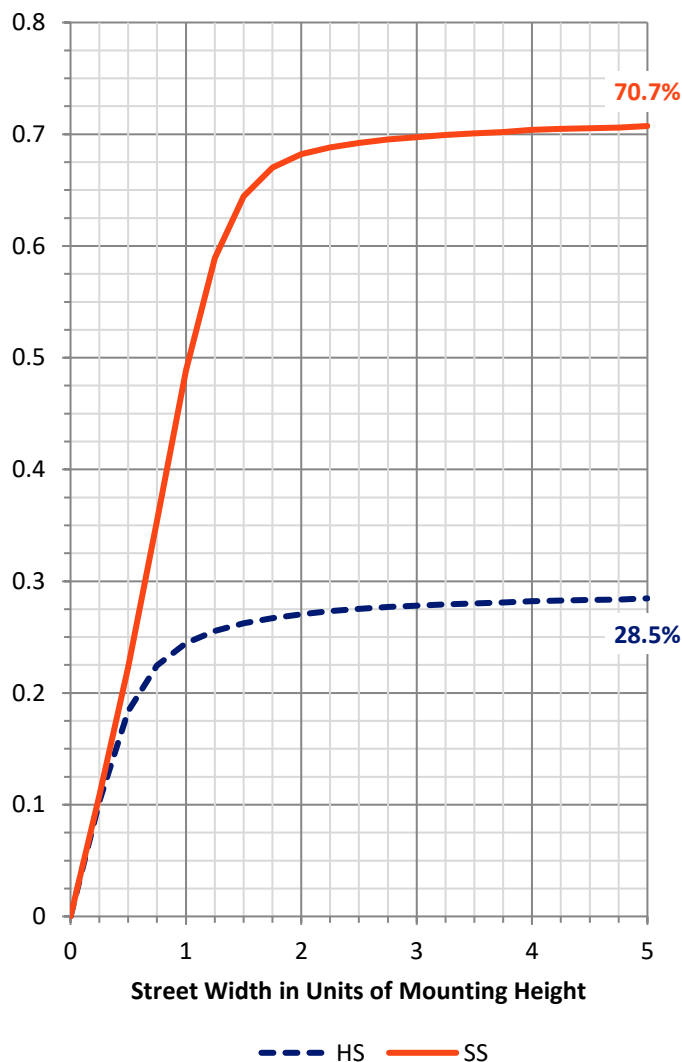
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10323.7	0.0	10323.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	25384.3	0.0	25384.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	35708.0	0.0	35708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.9	1.2
10°-20°	1283.4	3.6
20°-30°	2279.7	6.4
30°-40°	3856.7	10.8
40°-50°	6713.8	18.8
50°-60°	8676.4	24.3
60°-70°	7592.3	21.3
70°-80°	4129.7	11.6
80°-90°	746.2	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°	35708.0	100.0
0°-180°	35708.0	100.0

Coefficient of Utilization



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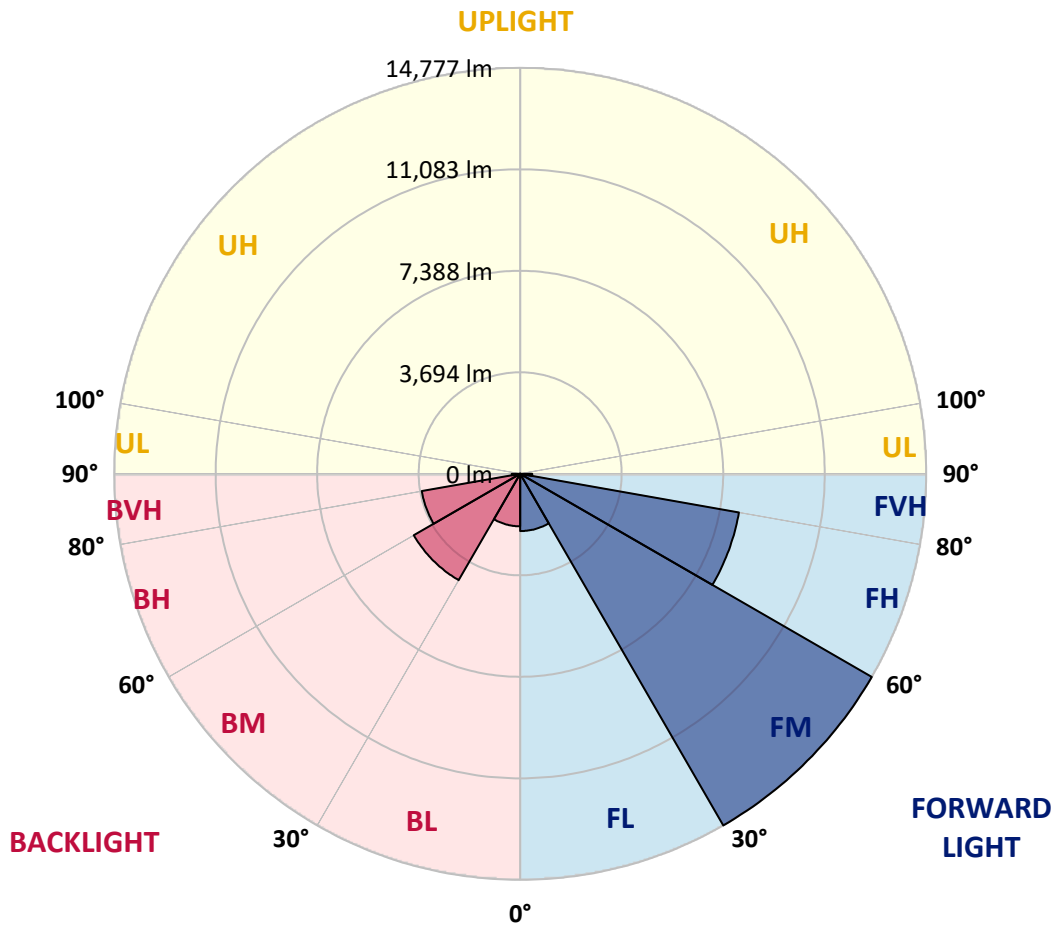
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.5	5.8			
FM (30°-60°)	14777.0	41.4			
FH (60°-80°)	8084.8	22.6			G4/12000
FVH (80°-90°)	439.1	1.2			G3/500
BL (0°-30°)	1909.5	5.3	B3/2500		
BM (30°-60°)	4469.9	12.5	B3/5000		
BH (60°-80°)	3637.2	10.2	B4/5000		G4/5000
BVH (80°-90°)	307.1	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°	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0
2.5°	4432.1	4427.4	4418.0	4427.4	4432.1	4441.5	4436.8	4446.2	4441.5	4455.6	4479.1
5°	4319.3	4309.9	4305.2	4328.7	4342.8	4366.3	4375.7	4408.6	4403.9	4427.4	4465.0
7.5°	4192.4	4192.4	4187.7	4215.9	4234.7	4277.0	4309.9	4366.3	4371.0	4413.3	4455.6
10°	4093.7	4098.4	4093.7	4117.2	4145.4	4197.1	4253.5	4333.4	4338.1	4399.2	4441.5
12.5°	4056.1	4056.1	4056.1	4089.0	4126.6	4197.1	4262.9	4347.5	4356.9	4422.7	4460.3
15°	4107.8	4112.5	4103.1	4136.0	4178.3	4262.9	4324.0	4413.3	4422.7	4483.8	4507.3
17.5°	4291.1	4309.9	4286.4	4305.2	4295.8	4361.6	4418.0	4507.3	4512.0	4563.8	4573.2
20°	4653.1	4671.9	4634.3	4610.8	4526.1	4521.4	4545.0	4615.5	4615.5	4648.4	4624.9
22.5°	5212.4	5231.2	5165.4	5076.1	4874.0	4775.3	4723.6	4756.5	4751.8	4765.9	4704.8
25°	5955.0	5950.3	5870.4	5705.9	5381.6	5141.9	5015.0	4963.3	4963.3	4935.1	4859.9
27.5°	6876.2	6805.7	6664.7	6467.3	6016.1	5682.4	5409.8	5278.2	5254.7	5170.1	5029.1
30°	7858.5	7806.8	7604.7	7318.0	6796.3	6368.6	5917.4	5654.2	5640.1	5456.8	5245.3
32.5°	9014.7	8930.1	8704.5	8361.4	7736.3	7134.7	6570.7	6171.2	6147.7	5856.3	5564.9
35°	10499.9	10429.4	9992.3	9649.2	8845.5	8055.9	7388.5	6857.4	6838.6	6481.4	6110.1
37.5°	12281.2	12097.9	11674.9	11031.0	10185.0	9249.7	8403.7	7736.3	7712.8	7318.0	6848.0
40°	13869.9	13705.4	13329.3	12737.1	11830.0	10791.3	9644.5	8836.1	8812.6	8333.2	7741.0
42.5°	15044.9	14932.1	14687.7	14344.6	13696.0	13066.1	11228.4	10166.2	10123.9	9503.5	8765.6
45°	15726.4	15637.1	15496.1	15580.7	15571.3	15453.8	13117.8	11750.1	11613.8	10810.1	9907.7
47.5°	15561.9	15482.0	15538.4	16196.4	17103.5	17785.0	15317.5	13371.6	13188.3	12140.2	11125.0
50°	14372.8	14405.7	14701.8	15961.4	17996.5	19509.9	17756.8	15218.8	14974.4	13479.7	12281.2
52.5°	12206.0	12285.9	13005.0	14767.6	17897.8	20628.5	19961.1	17127.0	16802.7	14786.4	13334.0
55°	9696.2	9898.3	10828.9	12680.7	16610.0	20708.4	21624.9	19044.6	18687.4	16013.1	14250.6
57.5°	7172.3	7473.1	8549.4	10250.8	14142.5	19444.1	22456.8	20877.6	20445.2	17230.4	15218.8
60°	4549.7	4733.0	5973.8	7980.7	10824.2	16351.5	22348.7	22438.0	22062.0	18443.0	16229.3
62.5°	2904.6	2993.9	3619.0	5691.8	7567.1	12107.3	21169.0	23617.8	23364.0	19547.5	17188.1
65°	1865.9	1903.5	2223.1	3501.5	5151.3	7308.6	18231.5	23744.7	23777.6	20238.4	17780.3
67.5°	1518.1	1536.9	1654.4	2162.0	3642.5	4037.3	12699.5	21939.8	22339.3	20059.8	17578.2
70°	1381.8	1405.3	1527.5	1724.9	2820.0	2787.1	6147.7	18358.4	19011.7	19030.5	16680.5
72.5°	1165.6	1198.5	1363.0	1630.9	2180.8	2199.6	2603.8	13075.5	14039.1	17009.5	15331.6
75°	972.9	991.7	1132.7	1438.2	1847.1	1757.8	1828.3	6932.6	8323.8	13639.6	13898.1
77.5°	789.6	808.4	911.8	1146.8	1640.3	1367.7	1438.2	2871.7	3548.5	9259.1	11360.0
80°	564.0	582.8	700.3	893.0	1240.8	1231.4	1066.9	1583.9	1720.2	5005.6	7379.1
82.5°	404.2	418.3	531.1	639.2	860.1	1236.1	803.7	1076.3	1128.0	2218.4	2975.1
85°	272.6	272.6	366.6	423.0	554.6	780.2	648.6	728.5	761.4	1052.8	803.7
87.5°	117.5	117.5	197.4	216.2	291.4	361.9	484.1	366.6	376.0	568.7	329.0
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°	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0	4512.0
2.5°	4493.2	4497.9	4507.3	4535.6	4554.4	4582.6	4596.7	4615.5	4615.5	4606.1	4610.8
5°	4483.8	4497.9	4530.8	4582.6	4615.5	4667.2	4704.8	4733.0	4742.4	4733.0	4737.7
7.5°	4479.1	4502.6	4559.1	4634.3	4681.3	4747.1	4798.8	4831.7	4855.2	4845.8	4850.5
10°	4465.0	4502.6	4573.2	4667.2	4737.7	4803.5	4850.5	4864.6	4878.7	4869.3	4864.6
12.5°	4483.8	4526.1	4601.4	4714.2	4794.1	4845.8	4859.9	4836.4	4803.5	4784.7	4780.0
15°	4521.4	4563.8	4639.0	4756.5	4827.0	4845.8	4812.9	4737.7	4662.5	4620.2	4615.5
17.5°	4573.2	4601.4	4662.5	4765.9	4822.3	4798.8	4733.0	4643.7	4587.3	4554.4	4559.1
20°	4606.1	4606.1	4653.1	4733.0	4780.0	4761.2	4681.3	4582.6	4493.2	4450.9	4436.8
22.5°	4653.1	4629.6	4634.3	4704.8	4770.6	4742.4	4573.2	4399.2	4272.3	4225.3	4220.6
25°	4780.0	4714.2	4671.9	4714.2	4869.3	4639.0	4300.5	4098.4	3980.9	3938.6	3943.3
27.5°	4935.1	4845.8	4756.5	4827.0	4949.2	4403.9	3952.7	3722.4	3651.9	3619.0	3633.1
30°	5090.2	4972.7	4855.2	5109.0	4892.8	4037.3	3506.2	3280.6	3219.5	3196.0	3214.8
32.5°	5376.9	5184.2	5043.2	5485.0	4718.9	3619.0	3022.1	2815.3	2758.9	2730.7	2721.3
35°	5856.3	5611.9	5470.9	5814.0	4474.4	3153.7	2580.3	2434.6	2373.5	2312.4	2303.0
37.5°	6547.2	6251.1	6124.2	6002.0	4131.3	2693.1	2241.9	2143.2	2053.9	1959.9	1955.2
40°	7374.4	6989.0	6895.0	6086.6	3656.6	2260.7	2006.9	1912.9	1800.1	1710.8	1715.5
42.5°	8328.5	7835.0	7632.9	6063.1	3069.1	2030.4	1837.7	1734.3	1635.6	1555.7	1551.0
45°	9348.4	8789.1	8323.8	5898.6	2486.3	1870.6	1734.3	1612.1	1513.4	1424.1	1414.7
47.5°	10476.4	9851.3	8963.0	5579.0	2053.9	1757.8	1673.2	1499.3	1410.0	1353.6	1353.6
50°	11613.8	10866.5	9550.5	5094.9	1800.1	1673.2	1583.9	1438.2	1367.7	1320.7	1320.7
52.5°	12586.7	11924.0	10034.6	4516.7	1640.3	1602.7	1522.8	1410.0	1334.8	1292.5	1287.8
55°	13531.4	12906.3	10467.0	3943.3	1508.7	1508.7	1508.7	1386.5	1301.9	1264.3	1259.6
57.5°	14471.5	13940.4	10918.2	3567.3	1391.2	1428.8	1480.5	1358.3	1273.7	1240.8	1236.1
60°	15533.7	15181.2	11439.9	3304.1	1287.8	1344.2	1442.9	1325.4	1226.7	1198.5	1193.8
62.5°	16661.7	16661.7	11914.6	2932.8	1193.8	1273.7	1386.5	1283.1	1184.4	1160.9	1156.2
65°	17545.3	17926.0	12220.1	2378.2	1099.8	1203.2	1320.7	1226.7	1128.0	1123.3	1113.9
67.5°	17648.7	18245.6	12027.4	1795.4	1015.2	1128.0	1254.9	1165.6	1071.6	1071.6	1057.5
70°	16906.1	17512.4	11425.8	1344.2	954.1	1052.8	1170.3	1090.4	1001.1	1010.5	987.0
72.5°	15665.3	15815.7	9931.2	1062.2	883.6	972.9	1066.9	1005.8	925.9	925.9	893.0
75°	14029.7	13193.0	7214.6	888.3	799.0	878.9	963.5	911.8	841.3	817.8	799.0
77.5°	11167.3	9559.9	4192.4	766.1	728.5	789.6	846.0	808.4	747.3	695.6	695.6
80°	6805.7	5602.5	1851.8	662.7	643.9	690.9	728.5	686.2	634.5	582.8	568.7
82.5°	2589.7	2162.0	897.7	568.7	564.0	592.2	620.4	578.1	540.5	517.0	446.5
85°	709.7	653.3	615.7	474.7	465.3	460.6	493.5	474.7	423.0	347.8	310.2
87.5°	267.9	305.5	333.7	291.4	310.2	286.7	329.0	300.8	267.9	173.9	155.1
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)