

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: P400151

Luminaire Tested: **ARCH-L-PA3-240-740-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-240-740-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32804 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

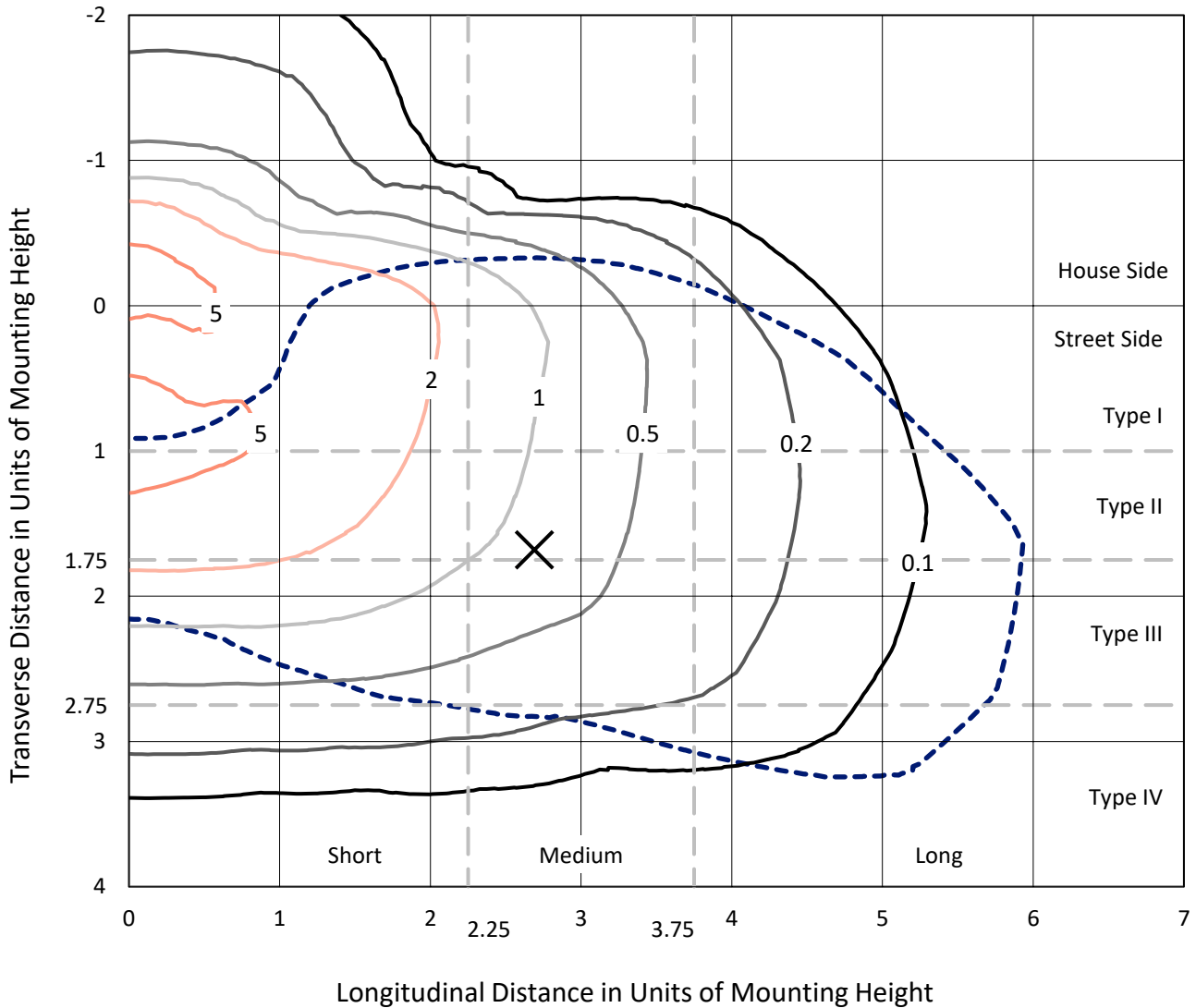
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

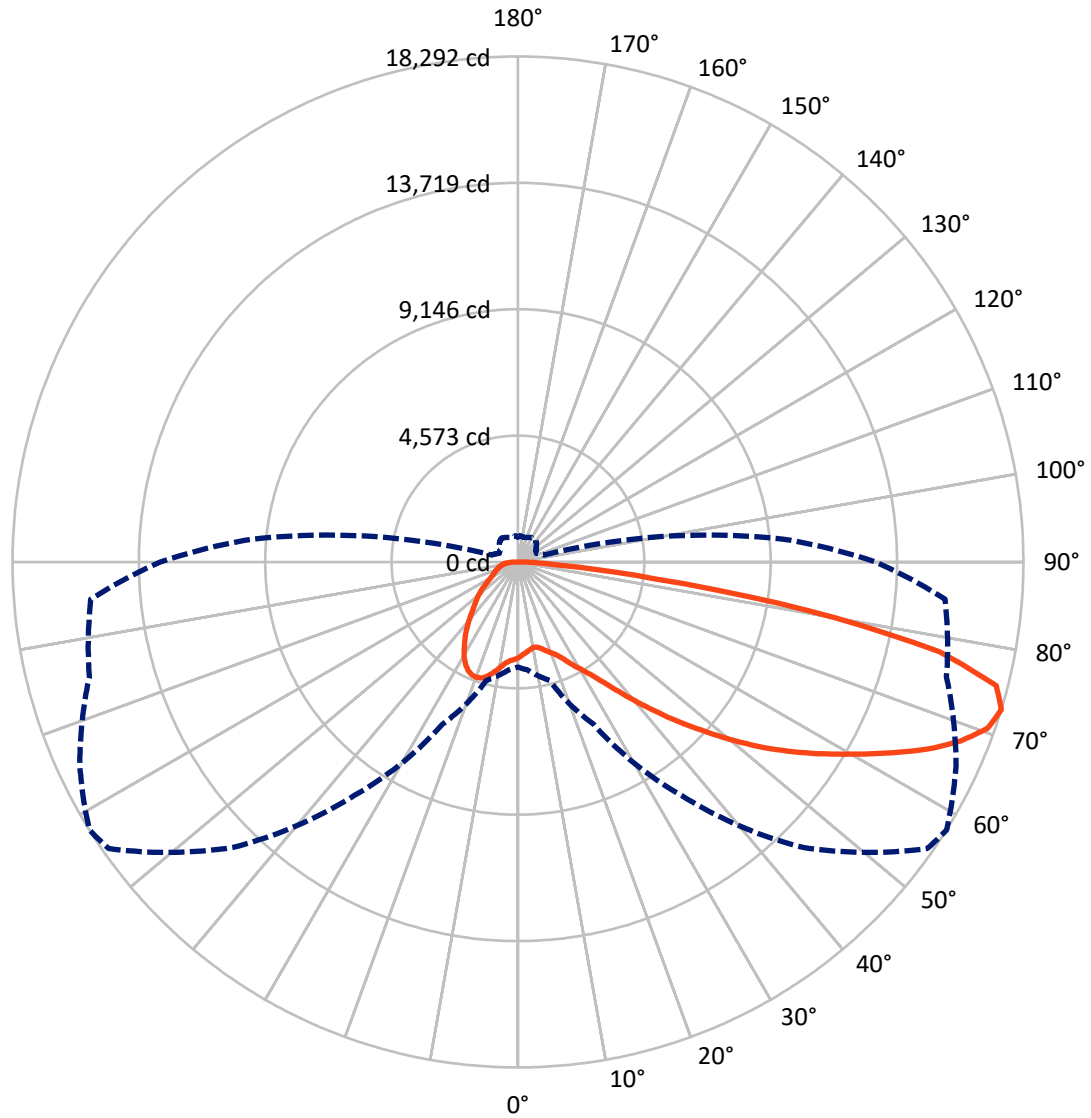
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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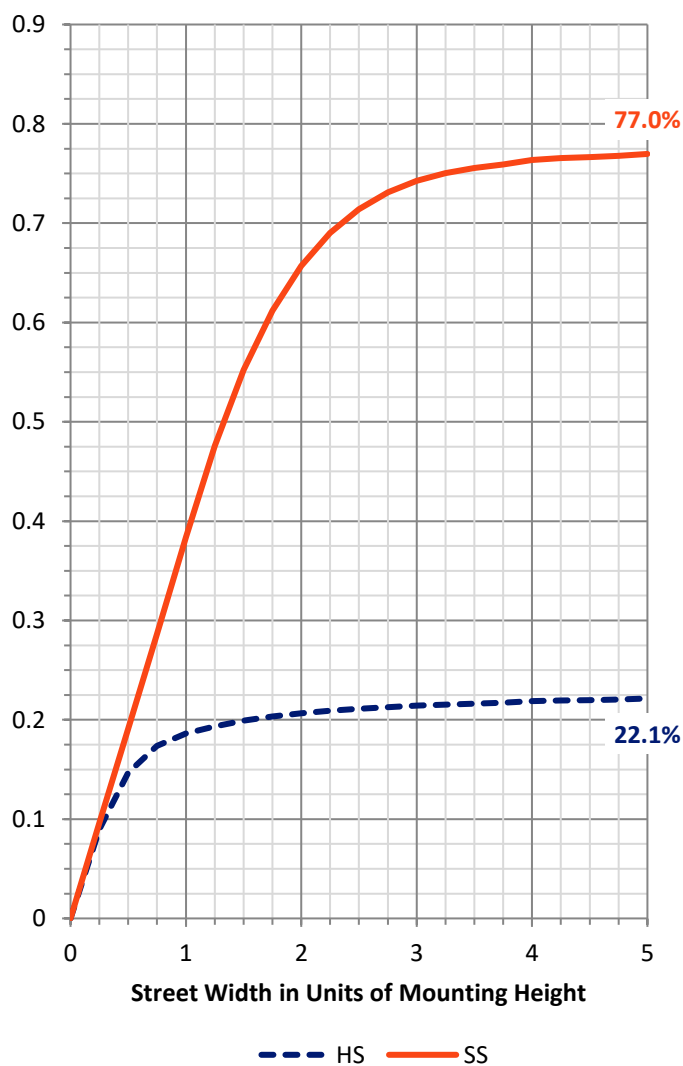
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7439.6	0.0	7439.6
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	25364.4	0.0	25364.4
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	32804.0	0.0	32804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.3	1.0
10°-20°	1058.5	3.2
20°-30°	1896.2	5.8
30°-40°	2852.4	8.7
40°-50°	4619.0	14.1
50°-60°	6953.2	21.2
60°-70°	8183.1	24.9
70°-80°	5802.6	17.7
80°-90°	1105.7	3.4
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°	32804.0	100.0
0°-180°	32804.0	100.0

**Coefficient of Utilization**



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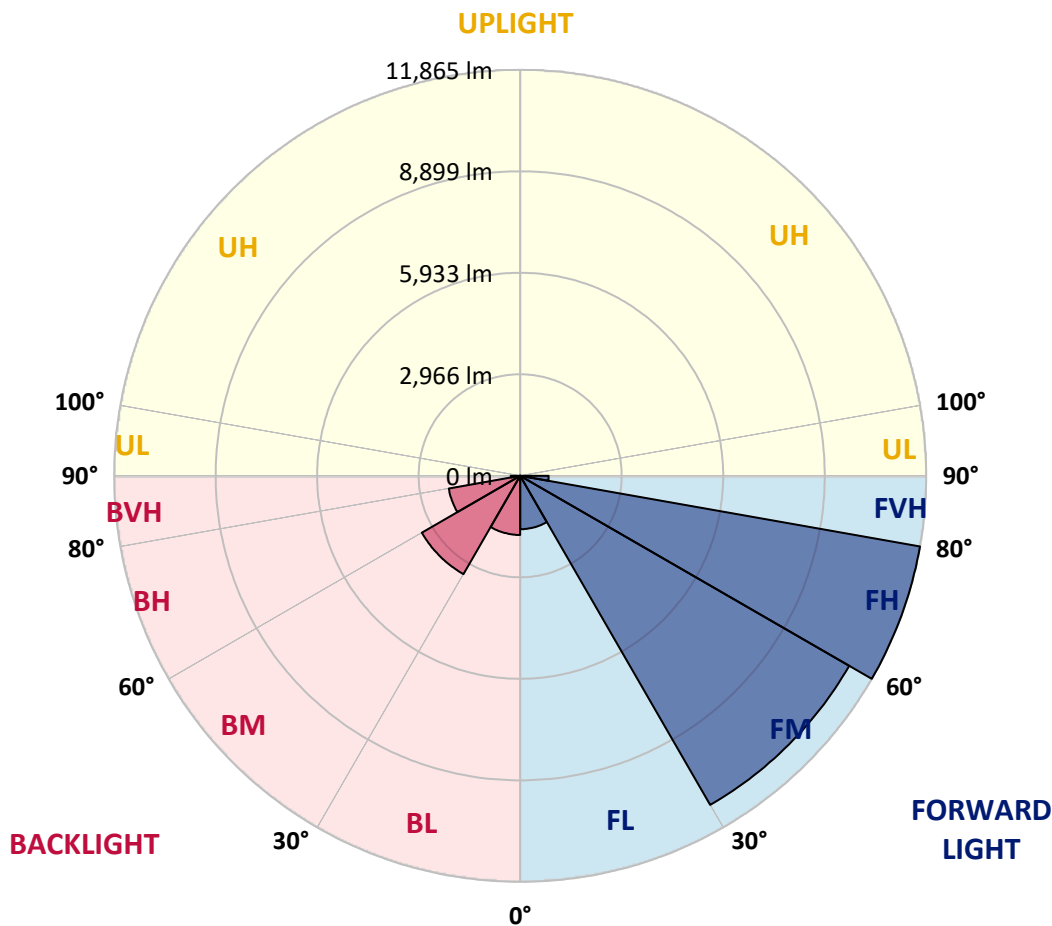
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.0	4.8			
FM (30°-60°)	11105.1	33.9			
FH (60°-80°)	11865.3	36.2			G4/12000
FVH (80°-90°)	834.0	2.5			G5
BL (0°-30°)	1728.1	5.3	B3/2500		
BM (30°-60°)	3319.5	10.1	B3/5000		
BH (60°-80°)	2120.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	271.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1
2.5°	3330.2	3312.9	3317.2	3317.2	3334.5	3343.2	3347.5	3360.5	3369.2	3390.8	3421.1
5°	3174.3	3161.3	3165.6	3170.0	3200.3	3230.6	3256.6	3273.9	3299.9	3334.5	3377.8
7.5°	3061.7	3053.1	3057.4	3066.0	3092.0	3126.7	3170.0	3196.0	3234.9	3299.9	3373.5
10°	2979.4	2979.4	2983.8	3001.1	3027.1	3070.4	3105.0	3135.3	3213.3	3330.2	3442.8
12.5°	2914.5	2914.5	2927.5	2962.1	3005.4	3048.7	3131.0	3165.6	3269.6	3429.8	3564.1
15°	2910.1	2914.5	2918.8	2949.1	2996.8	3092.0	3213.3	3265.2	3390.8	3581.4	3737.3
17.5°	2979.4	2983.8	2966.4	2975.1	3031.4	3165.6	3325.9	3386.5	3546.7	3754.6	3914.8
20°	3191.6	3191.6	3139.7	3092.0	3131.0	3278.2	3460.1	3520.8	3698.3	3927.8	4088.1
22.5°	3624.7	3646.3	3525.1	3421.1	3360.5	3442.8	3607.4	3672.3	3871.5	4118.4	4278.6
25°	4148.7	4170.3	4005.8	3858.5	3745.9	3733.0	3841.2	3910.5	4075.1	4330.6	4464.8
27.5°	4655.4	4616.4	4464.8	4326.2	4183.3	4066.4	4148.7	4209.3	4399.9	4594.7	4677.0
30°	5053.8	5023.5	4876.2	4776.6	4642.4	4490.8	4443.2	4508.1	4664.0	4845.9	4889.2
32.5°	5495.5	5473.8	5326.6	5196.7	5084.1	4941.2	4837.2	4867.6	4954.2	5084.1	5110.1
35°	6058.5	6106.1	5950.2	5686.0	5560.5	5421.9	5348.3	5356.9	5421.9	5504.2	5460.8
37.5°	6651.8	6708.1	6716.7	6301.0	6132.1	6006.5	5928.5	5958.9	6036.8	6093.1	5958.9
40°	7751.7	7695.4	7470.2	7162.8	6902.9	6781.7	6673.4	6669.1	6725.4	6825.0	6582.5
42.5°	9211.1	9159.2	8704.4	8306.0	7894.6	7756.0	7543.9	7452.9	7478.9	7604.5	7266.7
45°	10609.9	10588.2	10224.5	9761.1	9267.4	8998.9	8513.9	8293.0	8271.4	8371.0	7968.2
47.5°	11852.8	11757.5	11493.3	11133.9	11081.9	10380.4	9488.3	9189.5	9085.5	9141.8	8691.5
50°	13182.3	12857.5	12493.7	12272.8	12649.6	11995.7	10471.3	10159.5	9904.0	9943.0	9475.3
52.5°	13888.1	13342.5	13104.3	13169.3	13675.9	13424.8	11541.0	11159.9	10748.5	10804.8	10254.8
55°	13281.9	13277.5	13381.5	13784.2	14490.1	14199.9	12558.7	12129.9	11679.5	11692.5	11151.2
57.5°	12450.4	12619.3	13156.3	14044.0	15499.1	15014.1	13559.0	13104.3	12692.9	12627.9	12168.9
60°	11692.5	11878.8	12658.3	14000.7	15849.9	15758.9	14511.7	14113.3	13779.9	13589.3	13238.5
62.5°	10540.6	10679.2	11783.5	13723.6	15555.4	16295.9	15477.5	15204.6	14953.5	14559.4	14390.5
65°	9185.1	9232.8	10397.7	12809.8	15187.3	16503.8	16438.8	16317.6	16075.1	15494.8	15529.4
67.5°	7717.1	7812.3	8834.4	11350.4	14381.8	16408.5	17183.7	17283.3	16997.5	16127.0	16257.0
70°	6153.7	6270.7	7045.8	9332.4	13013.4	15997.1	17872.3	18032.5	17482.5	16334.9	16391.2
72.5°	3806.6	3919.2	4438.8	6482.9	10315.4	14615.7	18084.5	18292.3	17495.5	16057.7	15516.4
75°	1316.5	1329.5	1736.6	3109.3	6123.4	11034.3	17391.6	17880.9	16945.5	15048.7	13502.7
77.5°	601.9	623.6	770.8	1281.8	2715.3	5954.5	14360.2	15585.7	15273.9	13472.4	10393.4
80°	415.7	424.4	532.7	766.5	1567.7	2096.0	9063.9	10661.9	11207.5	10432.3	6660.4
82.5°	311.8	320.5	411.4	519.7	1130.3	1017.7	3451.5	4954.2	6158.1	6045.5	2784.6
85°	298.8	294.5	320.5	346.4	753.5	606.3	1117.3	1533.0	2403.5	2057.0	701.6
87.5°	129.9	142.9	329.1	194.9	394.1	281.5	485.0	567.3	731.9	636.6	251.2
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°	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1	3460.1
2.5°	3434.1	3442.8	3468.8	3507.8	3529.4	3572.7	3603.0	3620.4	3633.3	3637.7	3637.7
5°	3403.8	3421.1	3477.4	3542.4	3603.0	3694.0	3776.3	3823.9	3858.5	3871.5	3875.9
7.5°	3412.5	3455.8	3538.1	3633.3	3711.3	3828.2	3927.8	4023.1	4101.0	4131.4	4131.4
10°	3494.8	3555.4	3668.0	3793.6	3893.2	4014.4	4118.4	4200.7	4291.6	4343.6	4352.2
12.5°	3620.4	3694.0	3841.2	3979.8	4092.4	4187.7	4282.9	4343.6	4386.9	4425.8	4434.5
15°	3797.9	3888.9	4036.1	4179.0	4278.6	4339.2	4365.2	4365.2	4360.9	4365.2	4373.9
17.5°	3975.5	4062.1	4209.3	4352.2	4399.9	4365.2	4334.9	4326.2	4321.9	4313.2	4317.6
20°	4148.7	4231.0	4356.6	4464.8	4425.8	4304.6	4265.6	4261.3	4248.3	4239.6	4231.0
22.5°	4321.9	4382.5	4486.5	4525.4	4369.5	4196.3	4148.7	4122.7	4105.4	4083.7	4062.1
25°	4521.1	4538.4	4616.4	4555.8	4231.0	3997.1	3927.8	3888.9	3871.5	3849.9	3832.6
27.5°	4707.3	4707.3	4720.3	4508.1	4027.4	3733.0	3629.0	3559.7	3555.4	3551.1	3546.7
30°	4876.2	4854.6	4811.3	4365.2	3763.3	3408.2	3252.3	3183.0	3209.0	3230.6	3234.9
32.5°	5075.4	5032.1	4910.9	4170.3	3447.1	3044.4	2853.8	2823.5	2853.8	2879.8	2862.5
35°	5387.2	5309.3	5014.8	3945.1	3144.0	2710.9	2529.1	2485.7	2477.1	2472.8	2438.1
37.5°	5833.3	5699.0	5097.1	3702.6	2845.2	2416.5	2282.2	2191.3	2109.0	2022.4	2009.4
40°	6378.9	6149.4	5153.4	3425.5	2529.1	2169.6	2026.7	1909.8	1771.2	1619.6	1602.3
42.5°	6976.5	6634.4	5179.4	3118.0	2251.9	1966.1	1788.5	1641.3	1485.4	1368.5	1346.8
45°	7621.8	7158.4	5157.7	2823.5	2026.7	1792.9	1593.6	1433.4	1307.8	1225.6	1208.2
47.5°	8249.7	7760.4	5097.1	2589.7	1853.5	1645.6	1442.1	1294.8	1199.6	1108.6	1087.0
50°	9055.2	8336.3	5023.5	2407.8	1662.9	1498.4	1346.8	1190.9	1082.6	1039.3	1030.7
52.5°	9947.3	8912.3	4936.8	2178.3	1476.7	1381.5	1286.2	1147.6	1113.0	1030.7	1017.7
55°	10913.0	9596.5	4919.5	1888.1	1312.2	1299.2	1225.6	1186.6	1195.2	1030.7	1009.0
57.5°	11930.7	10328.4	4958.5	1598.0	1177.9	1225.6	1251.5	1221.2	1208.2	1052.3	1009.0
60°	12991.7	11034.3	4841.6	1329.5	1074.0	1164.9	1281.8	1203.9	1108.6	1043.7	1013.4
62.5°	14022.4	11627.6	4334.9	1138.9	996.0	1147.6	1264.5	1138.9	1030.7	1030.7	1017.7
65°	14771.6	11891.7	3390.8	1000.4	944.1	1125.9	1234.2	1095.6	1009.0	1039.3	1022.0
67.5°	14858.2	11618.9	2277.9	892.1	900.8	1087.0	1164.9	1056.7	987.4	1065.3	1039.3
70°	14325.5	10908.7	1394.4	809.8	844.5	1017.7	1104.3	1017.7	957.1	1043.7	1004.7
72.5°	12944.1	9583.5	983.0	740.5	783.8	952.7	1048.0	983.0	913.8	944.1	905.1
75°	10618.6	7426.9	779.5	675.6	723.2	892.1	1000.4	931.1	861.8	848.8	822.8
77.5°	7522.2	4759.3	627.9	623.6	658.2	818.5	935.4	870.4	801.2	775.2	757.8
80°	4326.2	2334.2	541.3	563.0	597.6	744.9	857.5	801.2	736.2	697.2	671.2
82.5°	1654.3	814.1	476.4	489.4	528.3	666.9	779.5	731.9	666.9	701.6	589.0
85°	537.0	446.0	389.8	402.7	441.7	554.3	688.6	649.6	576.0	511.0	472.0
87.5°	238.2	242.5	207.9	229.5	277.2	368.1	502.3	476.4	420.1	350.8	337.8
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)